

# TEST REPORT

**Report No.:** 8330EU121402W1

**Applicant:** Dakota Lithium Batteries

**Address:** 225 S. LUCILE ST. SEATTLE, WA 98108, the US

**Product Name:** PORTABLE POWER STATION

**Model No.:** PS2400

**Trademark:** N/A

**FCC ID:** 2BDF8PS2400V2400A

**Test Standard(s):** 47 CFR Part 15 Subpart C

**Test Result:** Pass

**Date of Receipt:** May 14, 2025

**Test Date:** May 14, 2025 – May 30, 2025

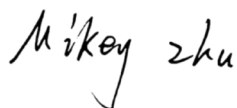
**Date of Issue:** Jun. 10, 2025

**ISSUED BY:**

SHENZHEN EU TESTING LABORATORY LIMITED



**Prepared by:**



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**Reviewed and Approved by:**



Sally Zhang/ Manager

## Revision Record

| Report Version | Issued Date   | Description | Status |
|----------------|---------------|-------------|--------|
| V0             | Jun. 10, 2025 | Original    | Valid  |
|                |               |             |        |



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## 2 General Information

### 2.1 Applicant Information

|           |                                            |
|-----------|--------------------------------------------|
| Applicant | Dakota Lithium Batteries                   |
| Address   | 225 S. LUCILE ST. SEATTLE,WA 98108, the US |

### 2.2 Manufacturer Information

|              |                                                                                                                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer | Huizhou Intelligent Energy Co., Ltd.                                                                                              |
| Address      | 8-9/F, Building E2-1, Qunyi Intelligent Manufacturing Industrial Park, No.1 Xingyuan South Road, Zhongkai High-tech Zone, HuiZhou |

### 2.3 Factory Information

|         |                                                                                                                                   |
|---------|-----------------------------------------------------------------------------------------------------------------------------------|
| Factory | Huizhou Intelligent Energy Co., Ltd.                                                                                              |
| Address | 8-9/F, Building E2-1, Qunyi Intelligent Manufacturing Industrial Park, No.1 Xingyuan South Road, Zhongkai High-tech Zone, HuiZhou |

### 2.4 General Description of E.U.T.

|                                      |                                                                                                                          |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Product Name                         | PORTABLE POWER STATION                                                                                                   |
| Model No. Under Test                 | PS2400                                                                                                                   |
| List Model No.                       | N/A                                                                                                                      |
| Description of Model differentiation | N/A                                                                                                                      |
| Rating(s)                            | Refer to the following detailed table.                                                                                   |
| Product Type                         | <input checked="" type="checkbox"/> Mobile<br><input type="checkbox"/> Portable<br><input type="checkbox"/> Fix Location |
| Test Sample No.                      | -1/2(Normal Sample), -2/2(Engineering Sample)                                                                            |
| Hardware Version                     | N/A                                                                                                                      |
| Software Version                     | N/A                                                                                                                      |
| Remark                               | For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.        |

Detailed table:

## PORTABLE POWER STATION

- Type: PS2400
- Batch Code: IGM2400-0425
- Battery Capacity: 51.2V, 40Ah/2048Wh
- AC Input: 100V-130V~12.5A, 60Hz, 1500W
- PV Input: DC 12V-75V=25A, 800W Max
- AC Output ×4: Pure Sine Wave 120V~60Hz, 2400W
- AC Parallel Interface: 2400W
- After Being Connected AC Output: 4800W
- DC Output ×2 + Cigarette Lighter Socket Output: Total 12V=10A
- USB-A Output ×2: 5V=3A, 9V=2A, 12V=1.5A, 18W Max
- USB-C Output ×2: 5V/9V/12V/15V/20V=3A, 20V=5A, 100W Max
- Wireless Charge: 10W
- Operating Temp: 14 to 104°F (-10 to 40°C)
- Charging Temp: 32 to 104°F (0 to 40°C)

DAKOTA LITHIUM BATTERIES MEET U.N. 38.3 STANDARDS FOR QUALITY & PERFORMANCE, AND CONFORM TO U.N. 38.3/DOT SHIPPING REGULATIONS FOR AIR, TRAIN, MARINE, AND GROUND TRANSPORTATION. BUILT WITH GRADE A LIFEPO4 CELLS TESTED PER IEC62133 STANDARDS FOR SAFETY AND PERFORMANCE



Made in China

ALL BATTERIES INCLUDE AN ACTIVE BMS (BATTERY MANAGEMENT SYSTEM) PROTECTION CIRCUIT THAT HANDLES CELL BALANCING, LO VOLTAGE CUTOFF, HIGH VOLTAGE CUTOFF, SHORT CIRCUIT PROTECTION AND TEMPERATURE PROTECTION FOR INCREASED PERFORMANCE AND LONGER LIFE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. FCC ID: 2BDF8PS2400V2400A



MADE IN CHINA



Li-ion

### ⚠ WARNING!

- Do not short-circuit the unit. To avoid short-circuiting, keep the unit away from all metal objects (e.g. coins, hair-pins, keys, etc.).
- Do not heat the unit, or dispose of it in fire, water or other liquids. Keep away from high temperatures.
- Do not expose the unit to direct sunlight. Keep away from high humidity, dusty places.
- Do not disassemble or reassemble this unit.
- Do not drop and place heavy objects on, or allow strong impact to this unit.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The unit may become hot when charging. This is normal. Be careful when handling.
- Use the unit properly to avoid electronic shock.
- The product is only used for emergency power station, it can not replace the standard DC or AC power of household appliances or digital products.
- Do not overcharge the internal battery. See Instruction Manual.

### ⚠ ACHTUNG!

- Schließen Sie das Gerät nicht kurz. Um Kurzschlüsse zu vermeiden, halten Sie das Gerät von allen Metallgegenständen (z.B. Münzen, Haarnadeln, Schlüssel usw.) fern.
- Erhitzen Sie das Gerät nicht und werfen Sie es nicht in Feuer, Wasser oder andere Flüssigkeiten. Von hohen Temperaturen fernhalten.
- Setzen Sie das Gerät keiner direkten Sonneneinstrahlung aus. Von hoher Luftfeuchtigkeit und staubigen Orten fernhalten.
- Zerlegen Sie dieses Gerät nicht und bauen Sie es nicht wieder zusammen.
- Lassen Sie das Gerät nicht fallen, stellen Sie keine schweren Gegenstände darauf und setzen Sie es keinen starken Stößen aus.
- Dieses Gerät ist nicht für die Verwendung durch Personen (einschließlich Kinder) mit eingeschränkten körperlichen, sensorischen oder geistigen Fähigkeiten oder mangelnder Erfahrung und Wissen bestimmt, es sei denn, sie werden von einer für ihre Sicherheit verantwortlichen Person beaufsichtigt oder in die Verwendung des Geräts eingewiesen.
- Kinder sollten beaufsichtigt werden, um sicherzustellen, dass sie nicht mit dem Gerät spielen.
- Das Gerät kann beim Laden heiß werden. Das ist normal. Seien Sie vorsichtig bei der Handhabung.
- Verwenden Sie das Gerät ordnungsgemäß, um einen Stromschlag zu vermeiden.
- Das Produkt wird nur für Notstromanlagen verwendet und kann nicht die Standard-Gleich- oder Wechselstromversorgung von Haushaltsgeräten oder digitalen Produkten ersetzen.
- Überladen Sie den internen Akku nicht. Siehe Bedienungsanleitung.

- Date Code: ▮

## 2.5 Technical Information of E.U.T.

|                                   |                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------|
| Network and Wireless Connectivity | Bluetooth (BLE)<br>WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20/40)<br>Wireless Power Transfer |
|-----------------------------------|---------------------------------------------------------------------------------------------|

The requirement for the following technical information of the EUT was tested in this report:

|                     |                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Technology          | <b>Bluetooth</b>                                                                                                                       |
| Operation Mode      | <input checked="" type="checkbox"/> BLE                                                                                                |
| Modulation Type     | GFSK                                                                                                                                   |
| Operating Frequency | 2402-2480MHz                                                                                                                           |
| Transfer Rate       | 1 Mbps                                                                                                                                 |
| Number of Channel   | 40                                                                                                                                     |
| Antenna Type        | PCB Antenna                                                                                                                            |
| Antenna Gain(Peak)  | 3.57 dBi                                                                                                                               |
| Remark              | The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant. |

All channels were listed on the following table:

| Channel   | Freq. (MHz) | Channel | Freq. (MHz) | Channel   | Freq. (MHz) | Channel | Freq. (MHz) | Channel   | Freq. (MHz) |
|-----------|-------------|---------|-------------|-----------|-------------|---------|-------------|-----------|-------------|
| <b>00</b> | <b>2402</b> | 08      | 2418        | 16        | 2434        | 24      | 2450        | 32        | 2466        |
| 01        | 2404        | 09      | 2420        | 17        | 2436        | 25      | 2452        | 33        | 2468        |
| 02        | 2406        | 10      | 2422        | 18        | 2438        | 26      | 2454        | 34        | 2470        |
| 03        | 2408        | 11      | 2424        | <b>19</b> | <b>2440</b> | 27      | 2456        | 35        | 2472        |
| 04        | 2410        | 12      | 2426        | 20        | 2442        | 28      | 2458        | 36        | 2474        |
| 05        | 2412        | 13      | 2428        | 21        | 2444        | 29      | 2460        | 37        | 2476        |
| 06        | 2414        | 14      | 2430        | 22        | 2446        | 30      | 2462        | 38        | 2478        |
| 07        | 2416        | 15      | 2432        | 23        | 2448        | 31      | 2464        | <b>39</b> | <b>2480</b> |

### 3 Test Summary

#### 3.1 Test Standard

The tests were performed according to following standards:

| No. | Identity                                   | Document Title                                                                                                                                                                           |
|-----|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 15, Subpart C                  | Intentional radiators of radio frequency equipment                                                                                                                                       |
| 2   | ANSI C63.10-2020                           | American National Standard for Testing Unlicensed Wireless Devices                                                                                                                       |
| 3   | KDB 558074 D01 15.247 Meas Guidance v05r02 | Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules |

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

#### 3.2 Test Verdict

| No.                                                                                                                               | Description                                             | FCC Part No.        | Channel         | Verdict | Remark            |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|-----------------|---------|-------------------|
| 1                                                                                                                                 | Antenna Requirement                                     | 15.203              | N/A             | Pass    | Note <sup>1</sup> |
| 2                                                                                                                                 | Conducted Emission at AC Power Line                     | 15.207              | Low/Middle/High | Pass    | --                |
| 3                                                                                                                                 | Occupied Bandwidth                                      | 15.247(a)(2)        | Low/Middle/High | Pass    | --                |
| 4                                                                                                                                 | Maximum Conducted Output Power                          | 15.247(b)(3)        | Low/Middle/High | Pass    | --                |
| 5                                                                                                                                 | Power spectral density (PSD)                            | 15.247(e)           | Low/Middle/High | Pass    | --                |
| 6                                                                                                                                 | Emissions in Non-restricted Frequency Bands (Conducted) | 15.247(d)           | Low/Middle/High | Pass    | --                |
| 7                                                                                                                                 | Band Edge Emissions (Restricted frequency bands)        | 15.209<br>15.247(d) | Low/High        | Pass    | --                |
| 8                                                                                                                                 | Radiated Spurious Emission                              | 15.209<br>15.247(d) | Low/Middle/High | Pass    | --                |
| Note <sup>1</sup> : The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203. |                                                         |                     |                 |         |                   |
| Note <sup>2</sup> : N/A" denotes test is not applicable in this test report.                                                      |                                                         |                     |                 |         |                   |

#### 3.3 Test Laboratory

|                               |                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Test Laboratory               | Shenzhen EU Testing Laboratory Limited                                                                                 |
| Address                       | 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China |
| Designation Number            | CN1368                                                                                                                 |
| Test Firm Registration Number | 952583                                                                                                                 |

## 4 Test Configuration

### 4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

|                            |                         |                |
|----------------------------|-------------------------|----------------|
| Relative Humidity          | 30% to 60%              |                |
| Atmospheric Pressure       | 86 kPa to 106 kPa       |                |
| Temperature                | NT (Normal Temperature) | +15°C to +35°C |
| Working Voltage of the EUT | NV (Normal Voltage)     | 120 VAC, 60Hz  |

### 4.2 Test Equipment

| Conducted Emission at AC power line  |                 |          |           |            |               |
|--------------------------------------|-----------------|----------|-----------|------------|---------------|
| Equipment                            | Manufacturer    | Model No | Serial No | Cal. Date  | Cal. Due Date |
| L.I.S.N.<br>Artificial Mains Network | Rohde & Schwarz | ENV216   | EE-004    | 2025/01/08 | 2026/01/07    |
| EMI Test Receiver                    | Rohde & Schwarz | ESCI     | EE-005    | 2025/01/08 | 2026/01/07    |
| Test Software                        | Farad           | EZ-EMC   | EE-014    | N.C.R      | N.C.R         |

| Radiated Emission and RF Test         |                 |              |           |            |              |
|---------------------------------------|-----------------|--------------|-----------|------------|--------------|
| Equipment                             | Manufacturer    | Model No     | Serial No | Cal Date   | Cal Due Date |
| EMI Test Receiver                     | ROHDE & SCHWARZ | ESPI         | EE-006    | 2025/01/08 | 2026/01/07   |
| Bilog Broadband Antenna               | SCHWARZBECK     | VULB 9163    | EE-007    | 2023/01/14 | 2026/01/13   |
| Double Ridged Horn Antenna            | A-INFOMW        | LB-10180-NF  | EE-008    | 2023/01/12 | 2026/01/11   |
| Pre-amplifier                         | Agilent         | 8447D        | EE-009    | 2025/01/08 | 2026/01/07   |
| Pre-amplifier                         | Agilent         | 8449B        | EE-010    | 2025/01/08 | 2026/01/07   |
| MXA Signal Analyzer                   | Agilent         | N9020A       | EE-011    | 2025/01/08 | 2026/01/07   |
| MXG RF Vector Signal Generator        | Agilent         | N5182A       | EE-012    | 2025/01/08 | 2026/01/07   |
| Test Software                         | Farad           | EZ-EMC       | EE-015    | N.C.R      | N.C.R        |
| MIMO Power Measurement Module         | TSTPASS         | TSPS 2023R   | EE-016    | 2025/01/08 | 2026/01/07   |
| RF Test Software                      | TSTPASS         | TS32893 V2.0 | EE-017    | N.C.R      | N.C.R        |
| Wideband Radio Communication Tester   | ROHDE & SCHWARZ | CMW500       | EE-402    | 2025/01/08 | 2026/01/07   |
| Loop Antenna                          | TESEQ           | HLA6121      | EE-403    | 2025/02/14 | 2026/02/13   |
| MXG RF Analog Signal Generator        | Agilent         | N5181A       | EE-406    | 2025/02/14 | 2026/02/13   |
| DRG Horn Antenna (up to 40GHz)        | SCHWARZBECK     | BBHA 9170    | EE-410    | 2025/02/14 | 2026/02/13   |
| Pre-amplifier                         | SKET            | LNPA-1840-50 | EE-411    | 2025/02/14 | 2026/02/13   |
| Constant Temperature Humidity Chamber | Guangxin        | GXP-401      | ES-002    | 2024/07/30 | 2025/07/29   |
| Power Sensor                          | ROHDE&SCHWARZ   | NRP18S       | ES-420    | 2025/02/14 | 2026/02/13   |

### 4.3 Description of Support Unit

| No. | Title   | Manufacturer | Model No.        | Serial No. |
|-----|---------|--------------|------------------|------------|
| 1   | Adapter | MI           | A232-050200U-CN2 | EMC-PJ-004 |

### 4.4 Test Mode

| No. | Test Modes       | Description                                                                                                              |
|-----|------------------|--------------------------------------------------------------------------------------------------------------------------|
| TM1 | TX-GFSK (1 Mbps) | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation with 1 Mbps rate. |

### 4.5 Description of Calculation

#### 4.5.1. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

#### 4.5.2. Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude           | PL = 10 dB Pulse Limiter Factor            |

#### 4.6 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

| Test Item                         | Measurement Uncertainty   |
|-----------------------------------|---------------------------|
| Conducted Emission                | 2.64 dB                   |
| Occupied Channel Bandwidth        | 70 kHz                    |
| RF output power, conducted        | 1.04 dB                   |
| Power Spectral Density, conducted | 0.91 dB                   |
| Unwanted Emissions, conducted     | 2.72 dB                   |
| Radiated Emission (9kHz- 30MHz)   | Ur = 2.50 dB              |
| Radiated Emission (30MHz- 1GHz)   | Ur = 2.70 dB (Horizontal) |
|                                   | Ur = 2.70 dB (Vertical)   |
| Radiated Emission (1GHz- 18GHz)   | Ur = 3.50 dB (Horizontal) |
|                                   | Ur = 3.50 dB (Vertical)   |
| Radiated Emission (18GHz- 40GHz)  | Ur = 5.15 dB (Horizontal) |
|                                   | Ur = 5.24 dB (Vertical)   |
| Temperature                       | 0.8°C                     |
| Humidity                          | 4%                        |

#### 4.7 Deviation from Standards

None.

#### 4.8 Abnormalities from Standard Condition

None.

## 5 Test Items

### 5.1 Antenna requirement

#### 5.1.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | <p>According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> <p>If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.</p> |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

| Protected Method                        | Description                            |
|-----------------------------------------|----------------------------------------|
| The antenna is embedded in the product. | An embedded-in antenna design is used. |

| Reference Documents | Item                                     |
|---------------------|------------------------------------------|
| Photo               | Please refer to the EUT Photo documents. |

#### 5.1.3 Antenna Gain

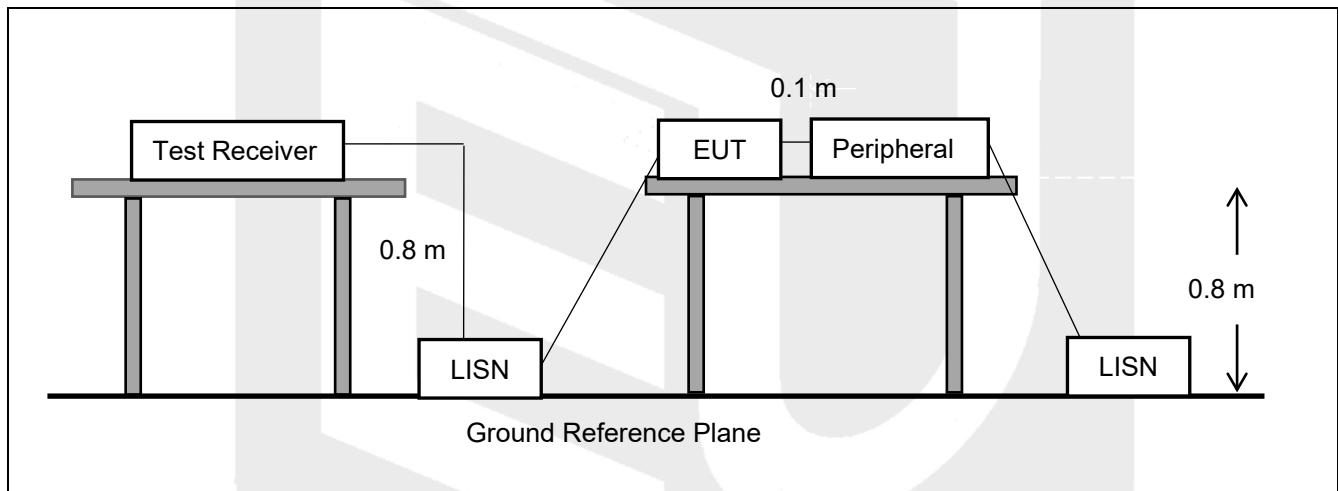
The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 5.2 Conducted Emission at AC Power Line

### 5.2.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit       | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                          | Conducted limit (dB $\mu$ V) |           |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quasi-peak                   | 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.                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
| Test Method      | ANSI C63.10-2020 section 6.2                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |           |

### 5.2.2 Test Setup Diagram



### 5.2.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

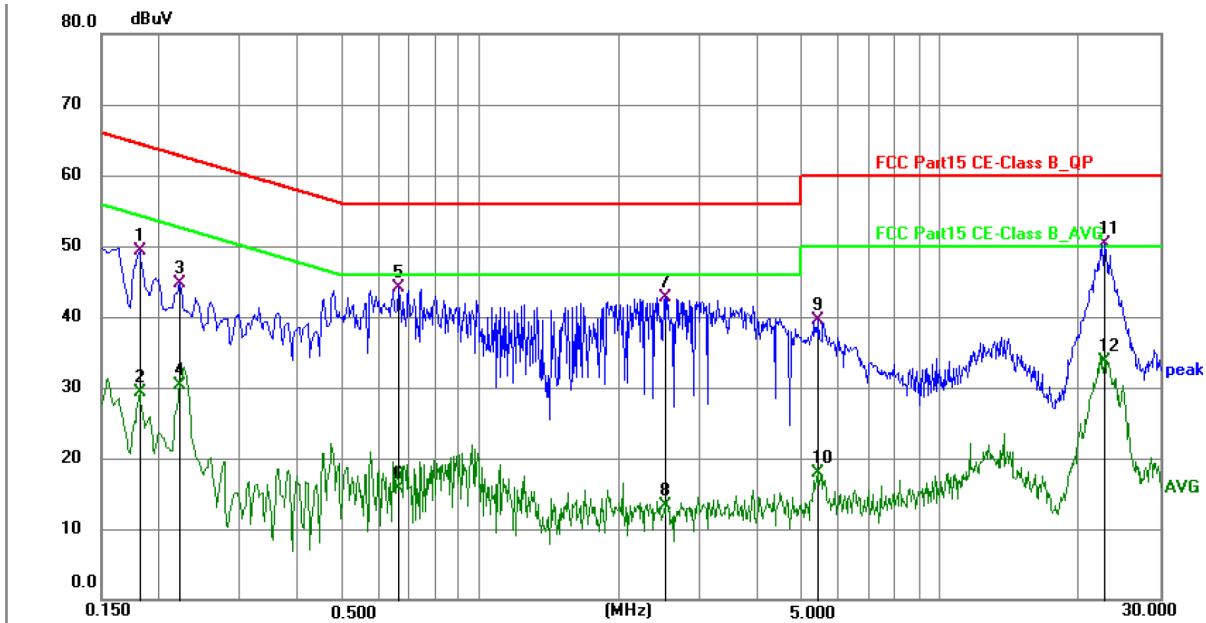
### 5.2.4 Test Data

PASS.

All modes have been tested and Pass. Only the worst case data was showed in the report, please to see the following pages.

**Conducted Emission Test Data**

Test Site: Shielded Room #1  
Test Mode: TM1/ CH Middle  
Comments: Live Line



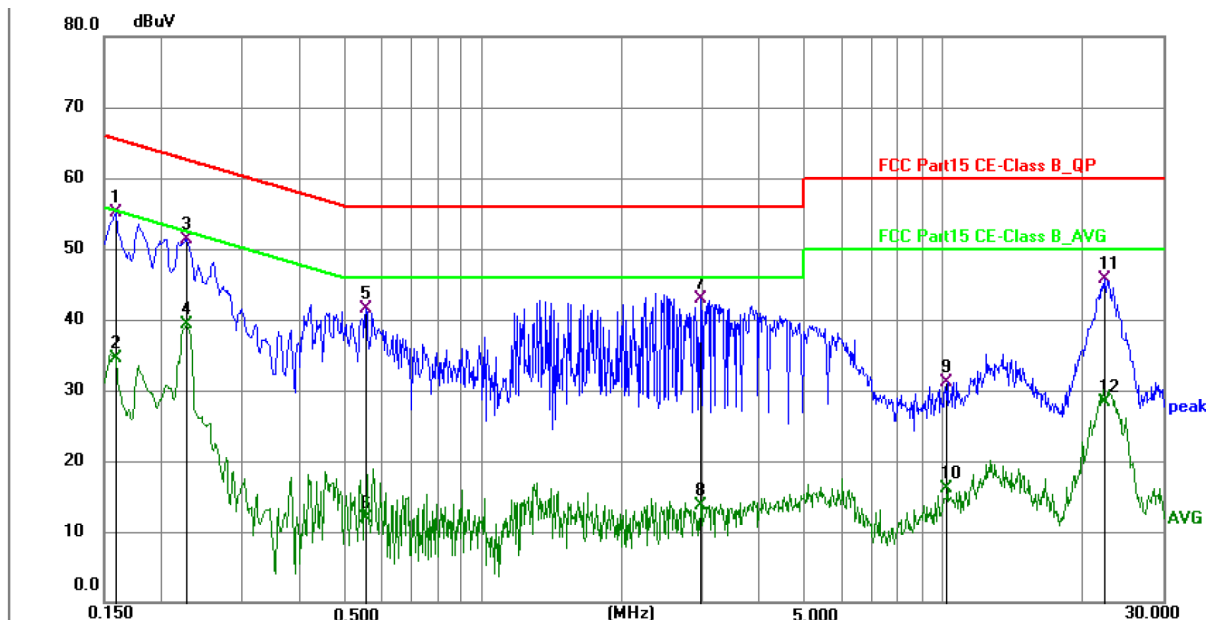
| No.  | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|------|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1    | 0.1814          | 39.30          | 9.96        | 49.26        | 64.42        | -15.16      | QP       | P   |        |
| 2    | 0.1814          | 19.33          | 9.96        | 29.29        | 54.42        | -25.13      | AVG      | P   |        |
| 3    | 0.2220          | 34.68          | 9.97        | 44.65        | 62.74        | -18.09      | QP       | P   |        |
| 4    | 0.2220          | 20.40          | 9.97        | 30.37        | 52.74        | -22.37      | AVG      | P   |        |
| 5    | 0.6630          | 34.00          | 10.04       | 44.04        | 56.00        | -11.96      | QP       | P   |        |
| 6    | 0.6630          | 5.68           | 10.04       | 15.72        | 46.00        | -30.28      | AVG      | P   |        |
| 7    | 2.5260          | 32.75          | 10.04       | 42.79        | 56.00        | -13.21      | QP       | P   |        |
| 8    | 2.5260          | 3.28           | 10.04       | 13.32        | 46.00        | -32.68      | AVG      | P   |        |
| 9    | 5.4420          | 29.44          | 10.03       | 39.47        | 60.00        | -20.53      | QP       | P   |        |
| 10   | 5.4420          | 7.93           | 10.03       | 17.96        | 50.00        | -32.04      | AVG      | P   |        |
| 11 * | 22.7265         | 40.08          | 10.13       | 50.21        | 60.00        | -9.79       | QP       | P   |        |
| 12   | 22.7265         | 23.64          | 10.13       | 33.77        | 50.00        | -16.23      | AVG      | P   |        |

Note: Level = Reading + Factor

Margin = Level - Limit

**Conducted Emission Test Data**

Test Site: Shielded Room #1  
Test Mode: TM1/ CH Middle  
Comments: Neutral Line



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.1590          | 45.10          | 9.98        | 55.08        | 65.52        | -10.44      | QP       | P   |        |
| 2   | 0.1590          | 24.50          | 9.98        | 34.48        | 55.52        | -21.04      | AVG      | P   |        |
| 3   | 0.2265          | 41.40          | 9.99        | 51.39        | 62.58        | -11.19      | QP       | P   |        |
| 4   | 0.2265          | 29.38          | 9.99        | 39.37        | 52.58        | -13.21      | AVG      | P   |        |
| 5   | 0.5550          | 31.52          | 10.07       | 41.59        | 56.00        | -14.41      | QP       | P   |        |
| 6   | 0.5550          | 1.78           | 10.07       | 11.85        | 46.00        | -34.15      | AVG      | P   |        |
| 7   | 2.9714          | 32.96          | 10.04       | 43.00        | 56.00        | -13.00      | QP       | P   |        |
| 8   | 2.9714          | 3.67           | 10.04       | 13.71        | 46.00        | -32.29      | AVG      | P   |        |
| 9   | 10.2299         | 21.10          | 10.01       | 31.11        | 60.00        | -28.89      | QP       | P   |        |
| 10  | 10.2299         | 6.05           | 10.01       | 16.06        | 50.00        | -33.94      | AVG      | P   |        |
| 11  | 22.4024         | 35.59          | 10.12       | 45.71        | 60.00        | -14.29      | QP       | P   |        |
| 12  | 22.4024         | 18.26          | 10.12       | 28.38        | 50.00        | -21.62      | AVG      | P   |        |

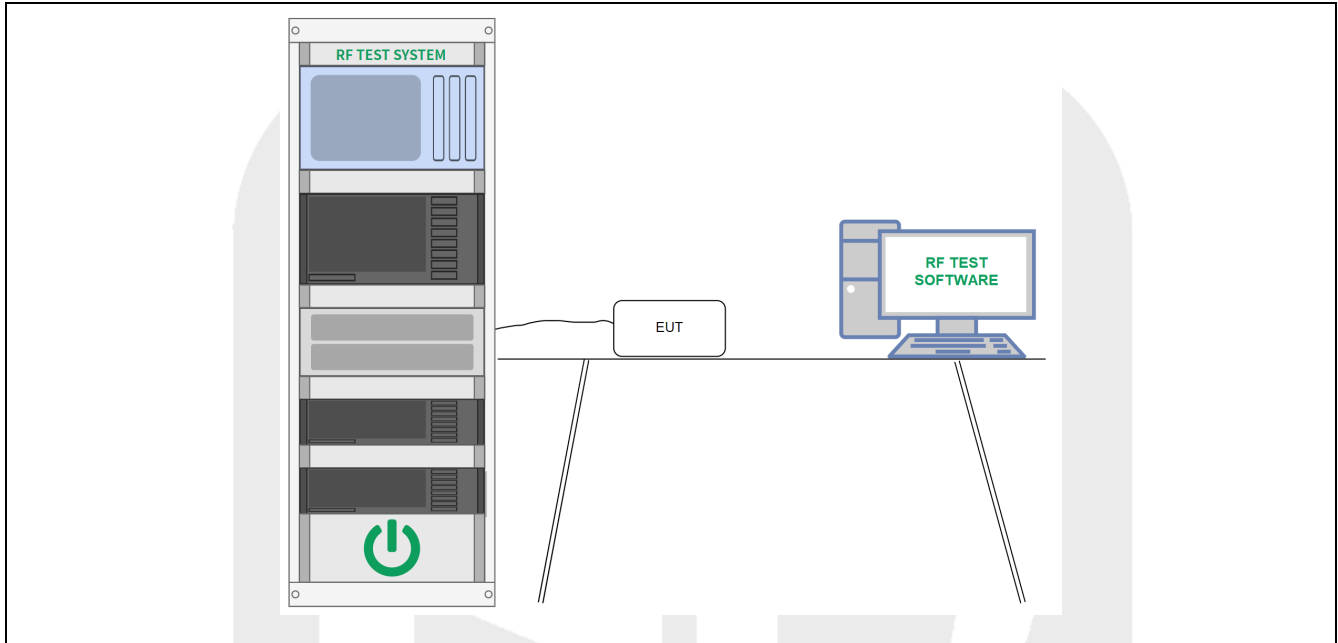
Note: Level = Reading + Factor    Margin = Level - Limit

### 5.3 DTS Bandwidth

#### 5.3.1 Test Requirement

|                  |                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Test Method      | ANSI C63.10-2020 section 11.8                                                                                                                                |

#### 5.3.2 Test Setup Diagram



#### 5.3.3 Test Procedure

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW  $\geq [3 \times \text{RBW}]$ .
- Detector = peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 5.3.4 Test Data

**PASS.**

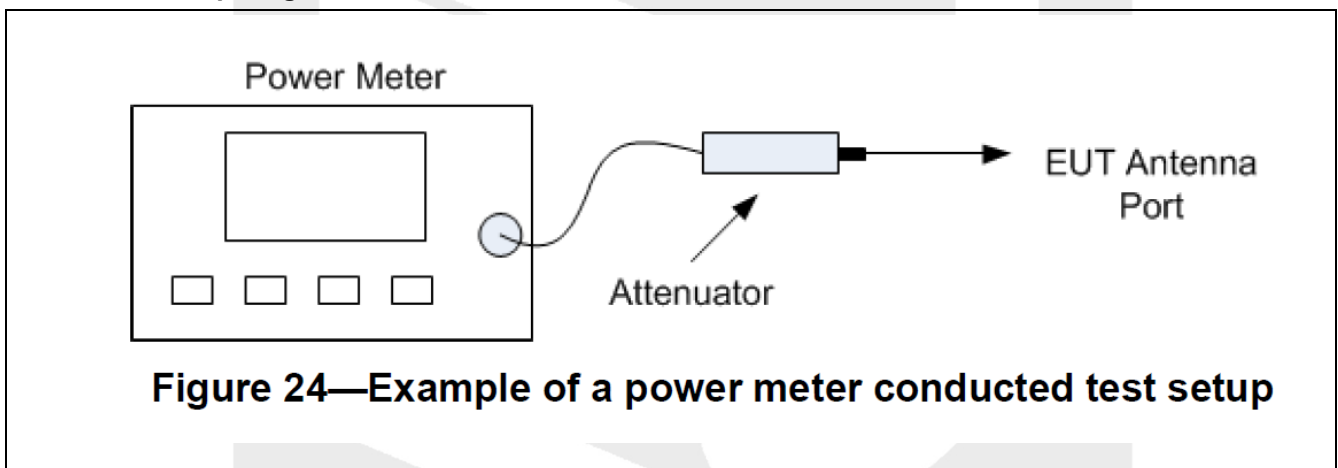
Please refer to Annex D for details.

## 5.4 Maximum Conducted Output Power

### 5.4.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method      | ANSI C63.10-2020 section 11.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### 5.4.2 Test Setup Diagram



### 5.4.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast responding diode detector.

### 5.4.4 Test Data

**PASS.**

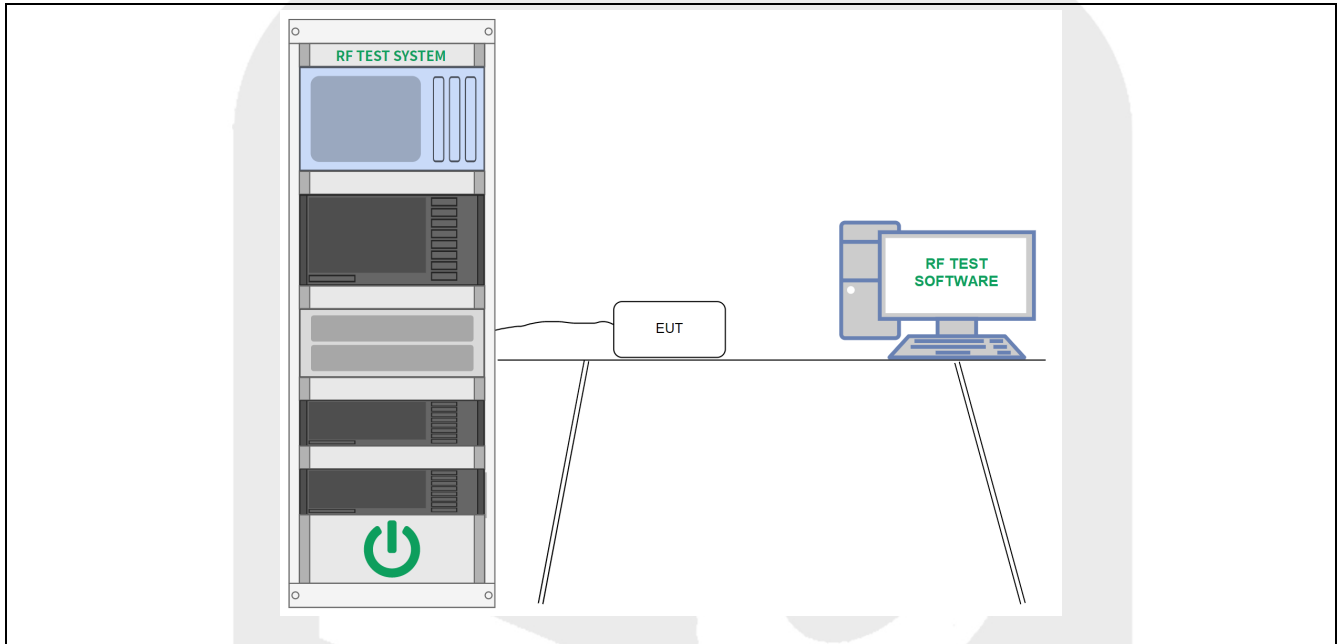
Please refer to Annex D for details.

## 5.5 Power Spectral Density

### 5.5.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method      | ANSI C63.10-2020 section 11.10                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### 5.5.2 Test Setup Diagram



### 5.5.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.  
Set the span to 1.5 times the DTS bandwidth.  
Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .  
Set the VBW  $\geq 3 \text{ RBW}$ .  
Detector = peak.  
Sweep time = auto couple.  
Trace mode = max hold.  
Allow trace to fully stabilize.  
Use the peak marker function to determine the maximum amplitude level within the RBW.  
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 5.5.4 Test Data

PASS.

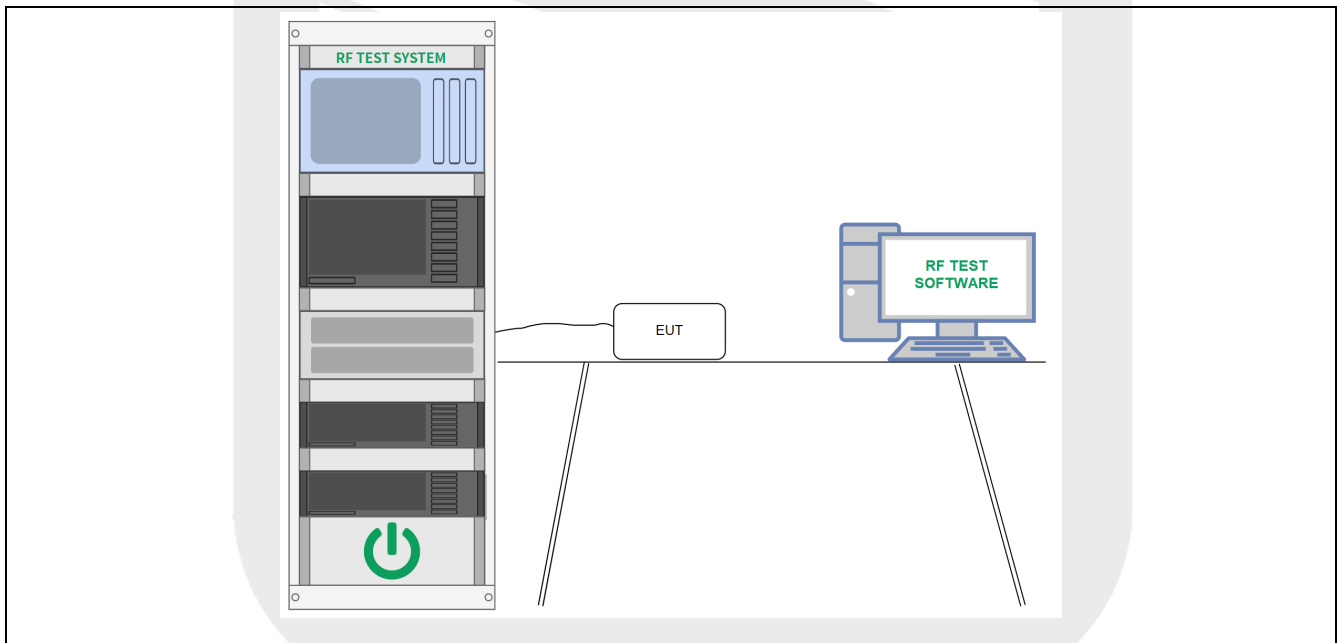
Please refer to Annex D for details.

## 5.6 Emissions in Non-restricted Frequency Bands (Conducted)

### 5.6.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method      | ANSI C63.10-2020 section 11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### 5.6.2 Test Setup Diagram



### 5.6.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle  $\geq 98\%$ ). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than  $\pm 2$  percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW  $\geq 3 \times$  RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission)  $\pm 0.5$  MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission  $\pm 0.5$  MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz.

Video bandwidth: 300 kHz.

Detector: Peak.

Trace: Max hold.

### 5.6.4 Test Data

**PASS.**

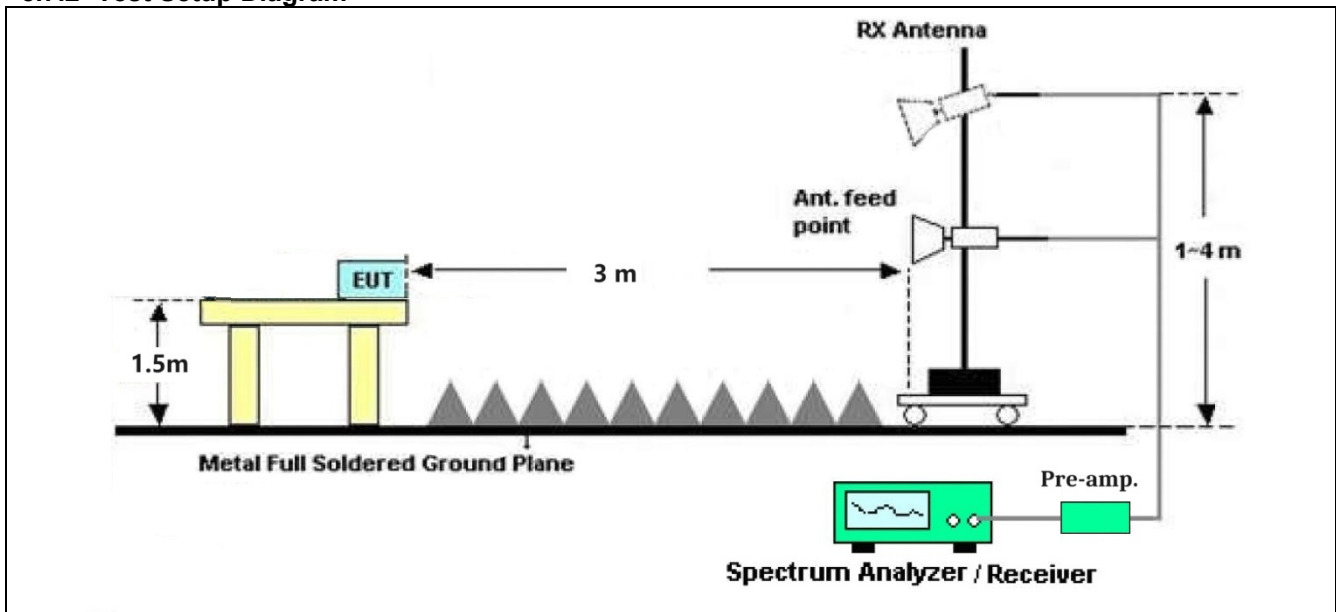
Please refer to Annex D for details.

## 5.7 Band Edge Emissions (Restricted frequency bands)

### 5.7.1 Test Requirement

| Test Requirement  | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).                                                                                                                                                    |                                   |                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
|                   | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                 | Field strength (microvolts/meter) | Measurement distance (meters) |
|                   | 0.009-0.490                                                                                                                                                                                                                                                                                                                                     | 2400/F(kHz)                       | 300                           |
|                   | 0.490-1.705                                                                                                                                                                                                                                                                                                                                     | 24000/F(kHz)                      | 30                            |
|                   | 1.705-30.0                                                                                                                                                                                                                                                                                                                                      | 30                                | 30                            |
|                   | 30-88                                                                                                                                                                                                                                                                                                                                           | 100 **                            | 3                             |
|                   | 88-216                                                                                                                                                                                                                                                                                                                                          | 150 **                            | 3                             |
|                   | 216-960                                                                                                                                                                                                                                                                                                                                         | 200 **                            | 3                             |
|                   | Above 960                                                                                                                                                                                                                                                                                                                                       | 500                               | 3                             |
|                   | ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. |                                   |                               |
|                   | Restricted frequency bands:                                                                                                                                                                                                                                                                                                                     |                                   |                               |
| MHz               | MHz                                                                                                                                                                                                                                                                                                                                             | MHz                               | GHz                           |
| 0.090-0.110       | 16.42-16.423                                                                                                                                                                                                                                                                                                                                    | 399.9-410                         | 4.5-5.15                      |
| 0.495-0.505       | 16.69475-16.69525                                                                                                                                                                                                                                                                                                                               | 608-614                           | 5.35-5.46                     |
| 2.1735-2.1905     | 16.80425-16.80475                                                                                                                                                                                                                                                                                                                               | 960-1240                          | 7.25-7.75                     |
| 4.125-4.128       | 25.5-25.67                                                                                                                                                                                                                                                                                                                                      | 1300-1427                         | 8.025-8.5                     |
| 4.17725-4.17775   | 37.5-38.25                                                                                                                                                                                                                                                                                                                                      | 1435-1626.5                       | 9.0-9.2                       |
| 4.20725-4.20775   | 73-74.6                                                                                                                                                                                                                                                                                                                                         | 1645.5-1646.5                     | 9.3-9.5                       |
| 6.215-6.218       | 74.8-75.2                                                                                                                                                                                                                                                                                                                                       | 1660-1710                         | 10.6-12.7                     |
| 6.26775-6.26825   | 108-121.94                                                                                                                                                                                                                                                                                                                                      | 1718.8-1722.2                     | 13.25-13.4                    |
| 6.31175-6.31225   | 123-138                                                                                                                                                                                                                                                                                                                                         | 2200-2300                         | 14.47-14.5                    |
| 8.291-8.294       | 149.9-150.05                                                                                                                                                                                                                                                                                                                                    | 2310-2390                         | 15.35-16.2                    |
| 8.362-8.366       | 156.52475-156.52525                                                                                                                                                                                                                                                                                                                             | 2483.5-2500                       | 17.7-21.4                     |
| 8.37625-8.38675   | 156.7-156.9                                                                                                                                                                                                                                                                                                                                     | 2690-2900                         | 22.01-23.12                   |
| 8.41425-8.41475   | 162.0125-167.17                                                                                                                                                                                                                                                                                                                                 | 3260-3267                         | 23.6-24.0                     |
| 12.29-12.293      | 167.72-173.2                                                                                                                                                                                                                                                                                                                                    | 3332-3339                         | 31.2-31.8                     |
| 12.51975-12.52025 | 240-285                                                                                                                                                                                                                                                                                                                                         | 3345.8-3358                       | 36.43-36.5                    |
| 12.57675-12.57725 | 322-335.4                                                                                                                                                                                                                                                                                                                                       | 3600-4400                         |                               |
| 13.36-13.41       |                                                                                                                                                                                                                                                                                                                                                 |                                   |                               |
|                   | Note:                                                                                                                                                                                                                                                                                                                                           |                                   |                               |
|                   | 1) Field Strength (dBµV/m) = 20*log[Field Strength (µV/m)].                                                                                                                                                                                                                                                                                     |                                   |                               |
|                   | 2) In the emission tables above, the tighter limit applies at the band edges.                                                                                                                                                                                                                                                                   |                                   |                               |
|                   | 3) For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.                                                                            |                                   |                               |
|                   | 4) For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).                                                                                                                                                                                                                                                |                                   |                               |
| Test Method       | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                                                                                                                                                                  |                                   |                               |

### 5.7.2 Test Setup Diagram



### 5.7.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold.

### 5.7.4 Test Data

**PASS.**

Please refer to the following pages.

**Band Edge Emissions (Restricted frequency bands):**

| Test Mode: TX-GFSK (1 Mbps) |                 |                |               |                | CH Low: 2402 MHz |             |               |        |
|-----------------------------|-----------------|----------------|---------------|----------------|------------------|-------------|---------------|--------|
| Pol.                        | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
|                             |                 |                |               | (dBuV/m)       |                  |             |               |        |
| H                           | 2310.00         | 43.07          | -2.81         | 40.26          | 74.00            | -33.74      | PK            | PASS   |
| H                           | 2390.00         | 48.98          | -2.69         | 46.29          | 74.00            | -27.71      | PK            | PASS   |
| H                           | **2400.00       | 61.82          | -2.68         | 59.14          | 74.00            | -14.86      | PK            | PASS   |
| V                           | 2310.00         | 44.24          | -2.81         | 41.43          | 74.00            | -32.57      | PK            | PASS   |
| V                           | 2390.00         | 46.82          | -2.69         | 44.13          | 74.00            | -29.87      | PK            | PASS   |
| V                           | **2400.00       | 61.60          | -2.68         | 58.92          | 74.00            | -15.08      | PK            | PASS   |
| H                           | 2310.00         | 31.82          | -2.81         | 29.01          | 54.00            | -24.99      | AV            | PASS   |
| H                           | 2390.00         | 35.85          | -2.69         | 33.16          | 54.00            | -20.84      | AV            | PASS   |
| H                           | **2400.00       | 49.30          | -2.68         | 46.62          | 54.00            | -7.38       | AV            | PASS   |
| V                           | 2310.00         | 33.60          | -2.81         | 30.79          | 54.00            | -23.21      | AV            | PASS   |
| V                           | 2390.00         | 37.03          | -2.69         | 34.34          | 54.00            | -19.66      | AV            | PASS   |
| V                           | **2400.00       | 47.03          | -2.68         | 44.35          | 54.00            | -9.65       | AV            | PASS   |

| Test Mode: TX-GFSK (1 Mbps) |                 |                |               |                | CH High: 2480 MHz |             |               |        |
|-----------------------------|-----------------|----------------|---------------|----------------|-------------------|-------------|---------------|--------|
| Pol.                        | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
|                             |                 |                |               | (dBuV/m)       |                   |             |               |        |
| H                           | **2483.50       | 46.48          | -2.56         | 43.92          | 74.00             | -30.08      | PK            | PASS   |
| H                           | 2500.00         | 51.65          | -2.54         | 49.11          | 74.00             | -24.89      | PK            | PASS   |
| V                           | **2483.50       | 49.69          | -2.56         | 47.13          | 74.00             | -26.87      | PK            | PASS   |
| V                           | 2500.00         | 50.10          | -2.54         | 47.56          | 74.00             | -26.44      | PK            | PASS   |
| H                           | **2483.50       | 38.63          | -2.56         | 36.07          | 54.00             | -17.93      | AV            | PASS   |
| H                           | 2500.00         | 40.90          | -2.54         | 38.36          | 54.00             | -15.64      | AV            | PASS   |
| V                           | **2483.50       | 36.32          | -2.56         | 33.76          | 54.00             | -20.24      | AV            | PASS   |
| V                           | 2500.00         | 38.61          | -2.54         | 36.07          | 54.00             | -17.93      | AV            | PASS   |

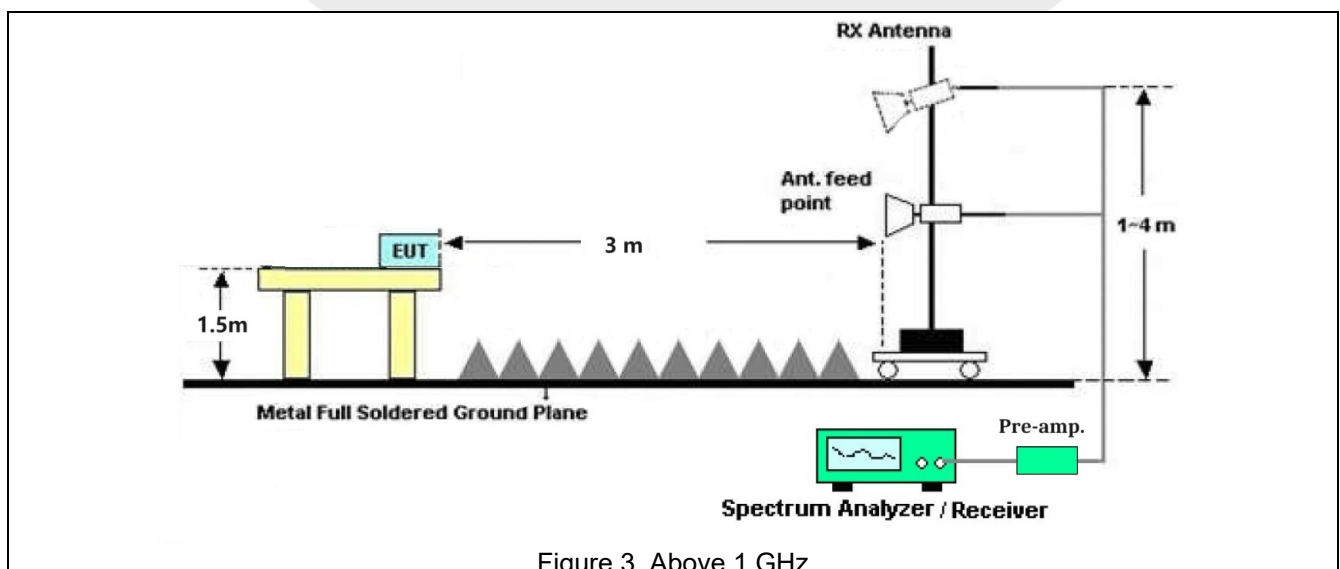
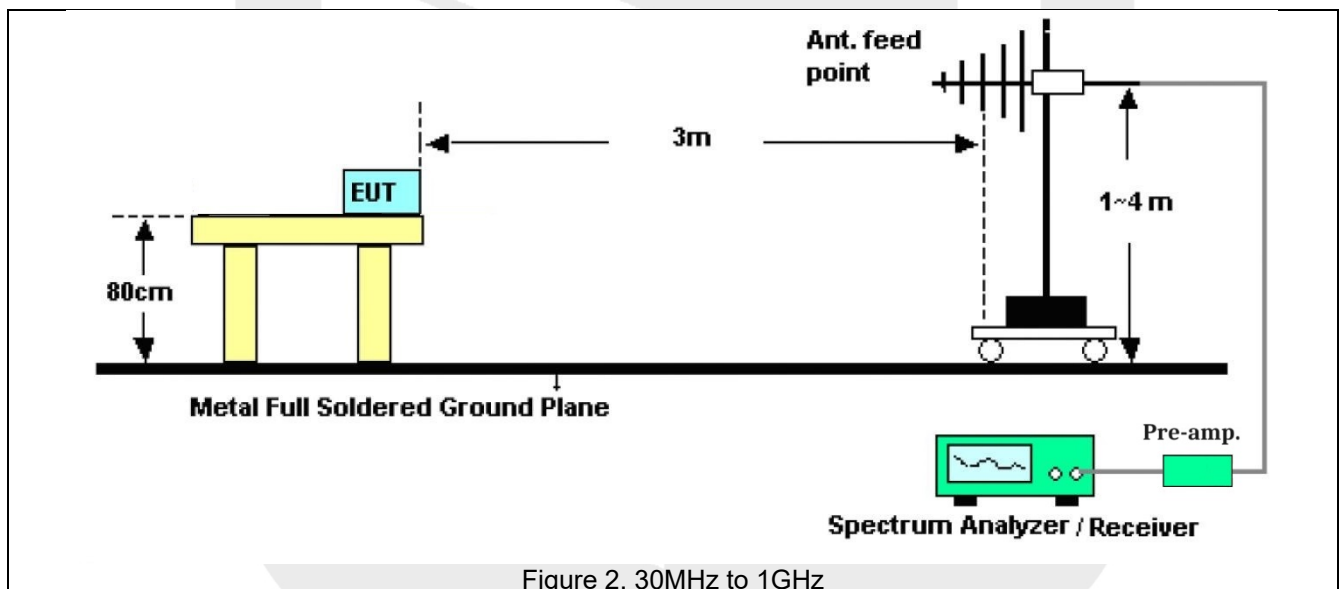
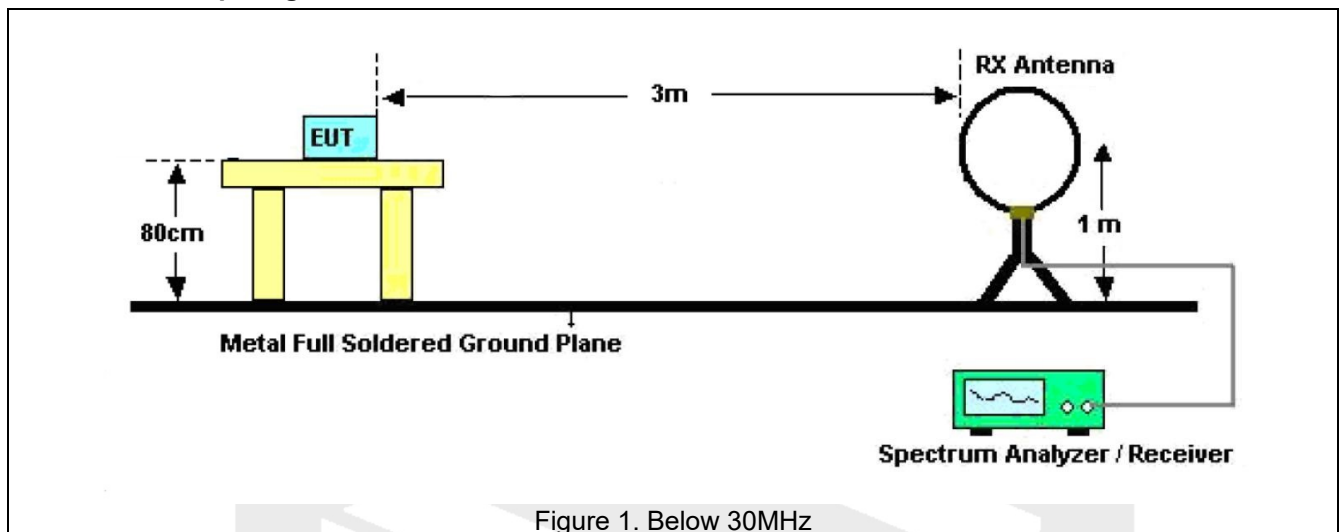
1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

## 5.8 Radiated Spurious Emission

### 5.8.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                               |
| Test Limit       | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Field strength (microvolts/meter) | Measurement distance (meters) |
|                  | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400/F(kHz)                       | 300                           |
|                  | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24000/F(kHz)                      | 30                            |
|                  | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30                                | 30                            |
|                  | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100 **                            | 3                             |
|                  | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 150 **                            | 3                             |
|                  | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200 **                            | 3                             |
|                  | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 500                               | 3                             |
|                  | <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>Note:</p> <p>1) Field Strength (dBµV/m) = 20*log[Field Strength (µV/m)].</p> <p>2) In the emission tables above, the tighter limit applies at the band edges.</p> <p>3) For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.</p> <p>4) For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).</p> |                                   |                               |
| Test Method      | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                               |

## 5.8.2 Test Setup Diagram



### 5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power.

Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

### 5.8.4 Test Data

**PASS.**

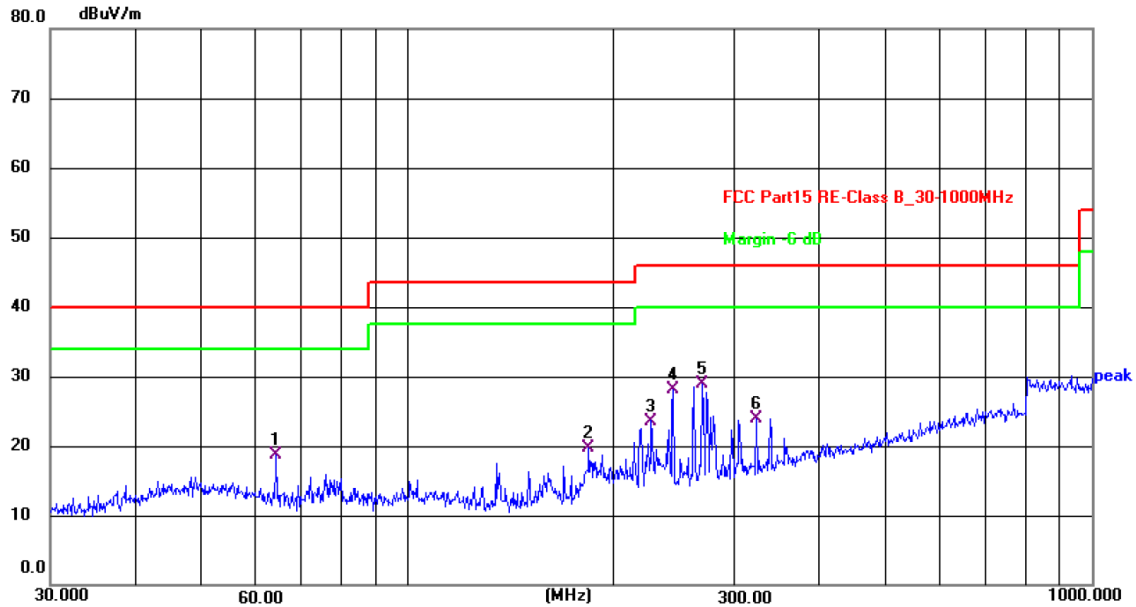
Please to see the following pages.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

For test of 30MHz-1GHz, during the test, pre-scan all test modes, and found the BLE 1M mode with middle channel is worse case, the report only record this mode.

**Radiated Emission Test Data (30-1000MHz)**

|                   |                |                      |                |
|-------------------|----------------|----------------------|----------------|
| <b>Test Site:</b> | 966 Chamber #1 | <b>Polarization:</b> | Horizontal     |
| <b>Distance:</b>  | 3m             | <b>Test Mode:</b>    | TM1/ CH Middle |

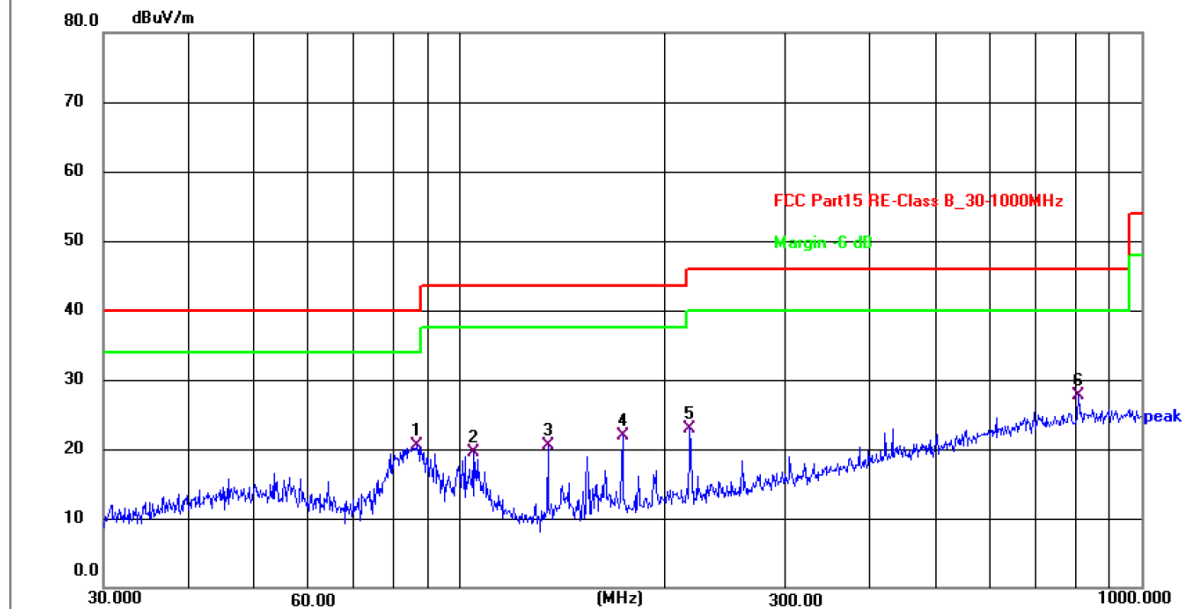


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 64.2074         | 34.69          | -16.06        | 18.63          | 40.00          | -21.37      | QP       | P   |        |
| 2   | 183.8440        | 36.00          | -16.23        | 19.77          | 43.50          | -23.73      | QP       | P   |        |
| 3   | 226.8936        | 37.73          | -14.13        | 23.60          | 46.00          | -22.40      | QP       | P   |        |
| 4   | 244.2321        | 41.65          | -13.52        | 28.13          | 46.00          | -17.87      | QP       | P   |        |
| 5 * | 269.4284        | 41.70          | -12.80        | 28.90          | 46.00          | -17.10      | QP       | P   |        |
| 6   | 323.3204        | 35.35          | -11.49        | 23.86          | 46.00          | -22.14      | QP       | P   |        |

**Note:** Level = Reading + Factor      Margin = Level - Limit

**Radiated Emission Test Data (30-1000MHz)**

|                   |                |                      |                |
|-------------------|----------------|----------------------|----------------|
| <b>Test Site:</b> | 966 Chamber #1 | <b>Polarization:</b> | Vertical       |
| <b>Distance:</b>  | 3m             | <b>Test Mode:</b>    | TM1/ CH Middle |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 86.5029         | 38.89          | -18.35        | 20.54          | 40.00          | -19.46      | QP       | P   |        |
| 2   | 104.5361        | 35.45          | -16.00        | 19.45          | 43.50          | -24.05      | QP       | P   |        |
| 3   | 134.5592        | 38.22          | -17.78        | 20.44          | 43.50          | -23.06      | QP       | P   |        |
| 4   | 173.2051        | 38.99          | -17.00        | 21.99          | 43.50          | -21.51      | QP       | P   |        |
| 5   | 217.5443        | 37.51          | -14.51        | 23.00          | 46.00          | -23.00      | QP       | P   |        |
| 6 * | 807.4291        | 31.59          | -3.86         | 27.73          | 46.00          | -18.27      | QP       | P   |        |

**Note:** Level = Reading + Factor      Margin = Level - Limit

**Radiated Spurious Emission (1GHz-25GHz)**

| Test Mode: TX-GFSK |                 |                |               |                         | CH Low: 2402 MHz |             |               |        |
|--------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.               | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| V                  | 4804.43         | 42.18          | 4.68          | 46.86                   | 74.00            | -27.14      | PK            | PASS   |
| V                  | 7206.07         | 34.86          | 9.84          | 44.70                   | 74.00            | -29.30      | PK            | PASS   |
| V                  | 9608.07         | 29.13          | 13.17         | 42.30                   | 74.00            | -31.70      | PK            | PASS   |
| V                  | 12010.46        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| V                  | 14412.56        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| V                  | 16814.17        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| H                  | 4804.51         | 42.66          | 4.68          | 47.34                   | 74.00            | -26.67      | PK            | PASS   |
| H                  | 7206.33         | 35.27          | 9.84          | 45.11                   | 74.00            | -28.89      | PK            | PASS   |
| H                  | 9608.21         | 30.28          | 13.17         | 43.45                   | 74.00            | -30.56      | PK            | PASS   |
| H                  | 12010.72        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| H                  | 14412.09        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| H                  | 16814.62        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| V                  | 4804.45         | 32.81          | 4.68          | 37.49                   | 54.00            | -16.52      | AV            | PASS   |
| V                  | 7206.81         | 23.34          | 9.84          | 33.18                   | 54.00            | -20.83      | AV            | PASS   |
| V                  | 9608.04         | 17.35          | 13.17         | 30.52                   | 54.00            | -23.49      | AV            | PASS   |
| V                  | 12010.38        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| V                  | 14412.46        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| V                  | 16814.37        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H                  | 4804.20         | 32.19          | 4.68          | 36.87                   | 54.00            | -17.14      | AV            | PASS   |
| H                  | 7206.33         | 23.61          | 9.84          | 33.45                   | 54.00            | -20.55      | AV            | PASS   |
| H                  | 9608.21         | 19.69          | 13.17         | 32.86                   | 54.00            | -21.15      | AV            | PASS   |
| H                  | 12010.72        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H                  | 14412.09        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H                  | 16814.62        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-25GHz)**

| Test Mode: TX-GFSK |                 |                |               |                         | CH Middle: 2440 MHz |             |               |        |
|--------------------|-----------------|----------------|---------------|-------------------------|---------------------|-------------|---------------|--------|
| Pol.               | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)      | Margin (dB) | Detector Type | Result |
| V                  | 4880.52         | 40.46          | 4.92          | 45.38                   | 74.00               | -28.62      | PK            | PASS   |
| V                  | 7320.26         | 35.59          | 9.83          | 45.42                   | 74.00               | -28.59      | PK            | PASS   |
| V                  | 9760.75         | 30.77          | 13.22         | 43.99                   | 74.00               | -30.02      | PK            | PASS   |
| V                  | 12200.57        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| V                  | 14640.04        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| V                  | 17080.04        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| H                  | 4880.85         | 42.50          | 4.92          | 47.42                   | 74.00               | -26.58      | PK            | PASS   |
| H                  | 7320.01         | 33.85          | 9.83          | 43.68                   | 74.00               | -30.32      | PK            | PASS   |
| H                  | 9760.70         | 28.34          | 13.22         | 41.56                   | 74.00               | -32.45      | PK            | PASS   |
| H                  | 12200.18        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| H                  | 14640.60        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| H                  | 17080.65        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| V                  | 4880.08         | 30.18          | 4.92          | 35.10                   | 54.00               | -18.91      | AV            | PASS   |
| V                  | 7320.18         | 22.05          | 9.83          | 31.88                   | 54.00               | -22.13      | AV            | PASS   |
| V                  | 9760.06         | 19.62          | 13.22         | 32.84                   | 54.00               | -21.17      | AV            | PASS   |
| V                  | 12200.40        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| V                  | 14640.90        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| V                  | 17080.31        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H                  | 4880.85         | 32.53          | 4.92          | 37.45                   | 54.00               | -16.55      | AV            | PASS   |
| H                  | 7320.01         | 24.24          | 9.83          | 34.07                   | 54.00               | -19.93      | AV            | PASS   |
| H                  | 9760.70         | 17.36          | 13.22         | 30.58                   | 54.00               | -23.43      | AV            | PASS   |
| H                  | 12200.18        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H                  | 14640.60        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H                  | 17080.65        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-25GHz)**

| Test Mode: TX-GFSK |                 |                |               |                         | CH High: 2480 MHz |             |               |        |
|--------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.               | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| V                  | 4960.12         | 42.18          | 5.17          | 47.35                   | 74.00             | -26.65      | PK            | PASS   |
| V                  | 7440.69         | 34.12          | 9.83          | 43.95                   | 74.00             | -30.06      | PK            | PASS   |
| V                  | 9920.05         | 30.26          | 13.27         | 43.53                   | 74.00             | -30.47      | PK            | PASS   |
| V                  | 12400.01        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| V                  | 14880.69        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| V                  | 17360.96        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| H                  | 4960.62         | 40.14          | 5.17          | 45.31                   | 74.00             | -28.69      | PK            | PASS   |
| H                  | 7440.15         | 35.56          | 9.83          | 45.39                   | 74.00             | -28.61      | PK            | PASS   |
| H                  | 9920.75         | 29.52          | 13.27         | 42.79                   | 74.00             | -31.22      | PK            | PASS   |
| H                  | 12400.47        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| H                  | 14880.04        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| H                  | 17360.35        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| V                  | 4960.59         | 31.90          | 5.17          | 37.07                   | 54.00             | -16.93      | AV            | PASS   |
| V                  | 7440.18         | 23.86          | 9.83          | 33.69                   | 54.00             | -20.32      | AV            | PASS   |
| V                  | 9920.48         | 18.93          | 13.27         | 32.20                   | 54.00             | -21.81      | AV            | PASS   |
| V                  | 12400.83        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| V                  | 14880.87        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| V                  | 17360.16        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| H                  | 4960.62         | 31.26          | 5.17          | 36.43                   | 54.00             | -17.57      | AV            | PASS   |
| H                  | 7440.15         | 23.43          | 9.83          | 33.26                   | 54.00             | -20.74      | AV            | PASS   |
| H                  | 9920.75         | 19.94          | 13.27         | 33.21                   | 54.00             | -20.79      | AV            | PASS   |
| H                  | 12400.47        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| H                  | 14880.04        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| H                  | 17360.35        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

## **ANNEX A TEST SETUP PHOTOS**

Please refer to the document “8330EU121402W-AA.PDF”

## **ANNEX B EXTERNAL PHOTOS**

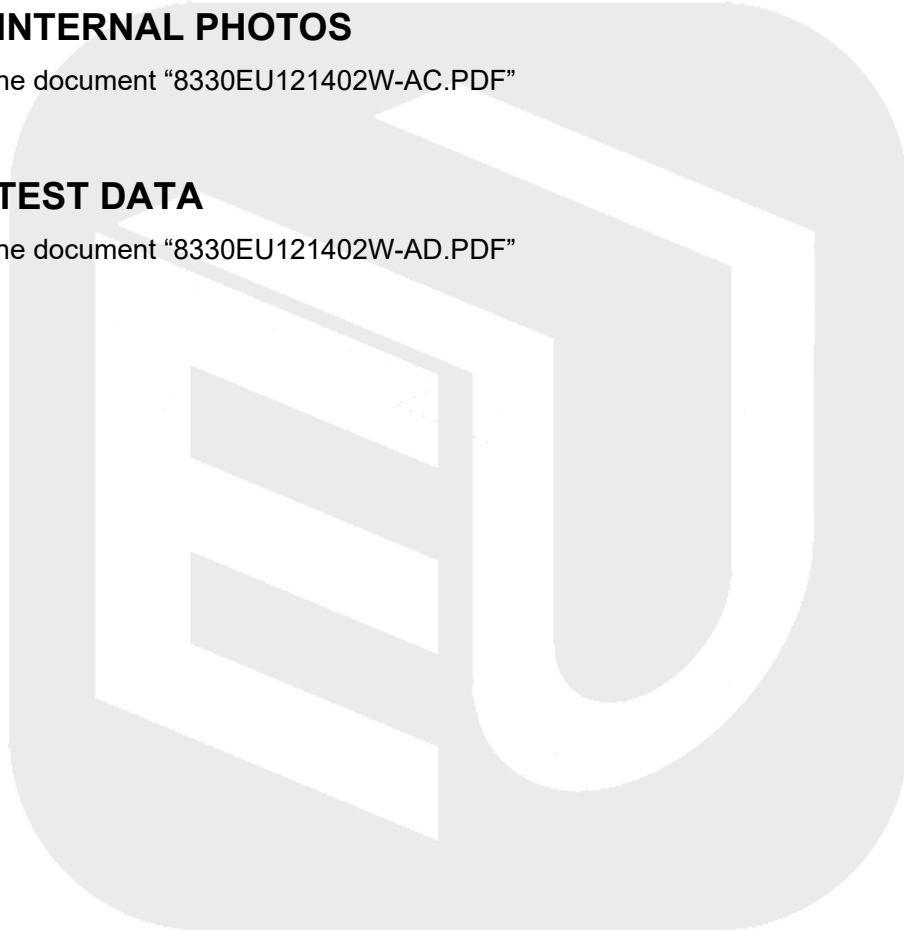
Please refer to the document “8330EU121402W-AB.PDF”

## **ANNEX C INTERNAL PHOTOS**

Please refer to the document “8330EU121402W-AC.PDF”

## **ANNEX E TEST DATA**

Please refer to the document “8330EU121402W-AD.PDF”



## STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
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--- End of Report ---