



## Test Report

Date : 2024-12-09

No. : HMD24100009

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**Applicant** : Glow Dreaming Holdings Pty Ltd  
Suite 113, 377 New South Head Road, Double Bay, NSW, Australia,  
2028

**Supplier / Manufacturer** : Dongguan Q&S Electronic Manufacturing Company Limited  
No.2 North 3rd Street, Xiangmang West Road, Qingxi Town,  
Dongguan City, Guangdong Province, China

**Description of Sample(s)** : Submitted sample(s) said to be  
Product: Glow Sleep Easy  
Brand Name: Glow Dreaming  
Model No.: GD04  
FCC ID: 2BCQKGD04

**Date Samples Received** : 2024-10-09

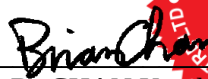
**Date Tested** : 2024-10-09 to 2024-10-16

**Investigation Requested** : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 and ANSI C63.10:2013 for FCC Certification.

**Conclusions** : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remarks** : Bluetooth DTS (GFSK)

**Test by** : Susu

  
  
Dr.CHAN Kwok Hung, Brian  
Authorized Signatory

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### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong  
Telephone: 852 2666 1888  
Fax: 852 2664 4353

#### **1.2 Equipment Under Test [EUT]**

##### **Description of Sample(s)**

Product: Glow Sleep Easy  
Manufacturer: Dongguan Q&S Electronic Manufacturing Company Limited  
No.2 North 3rd Street, Xiangmang West Road, Qingxi Town,  
Dongguan City, Guangdong Province, China  
Brand Name: Glow Dreaming  
Model Number: GD04  
Rating: 24Vd.c. by Adaptor  
The AC/DC adaptor was provided by the applicant with following details:  
Brand name: N/A, Model no.: MP12-240065-AX, Input: 100-240Va.c. 50/60Hz 0.4A Max,  
Output: 24Vd.c. 0.65A 15.6W

##### **1.2.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a Glow Sleep Easy. The transmission signal is digital modulated with channel frequency range 2402-2480MHz. The R.F. signal was modulated by IC; the type of modulation used was digital transmission Modulation.

#### **1.3 Date of Order**

2024-08-21

#### **1.4 Submitted Sample(s):**

1 Sample

#### **1.5 Test Duration**

2024-10-09 to 2024-10-16

#### **1.6 Country of Origin**

China

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### 1.7 RF Module Details

Module Model Number: Nrf52810  
Module FCC ID: N/A  
Module Transmission Type: Bluetooth 5.0 BLE  
Modulation: GFSK  
Data Rates: 1Mbps  
Frequency Range: 2400-2483.5MHz  
Carrier Frequencies: 2402MHz – 2480MHz

Module Specification (specification provided by manufacturer)

### 1.8 Antenna Details

Antenna Type: Integrated antenna  
Antenna Gain: 0.0dBi

### 1.9 Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 0       | 2402            | 20      | 2442            |
| 1       | 2404            | 21      | 2444            |
| 2       | 2406            | 22      | 2446            |
| 3       | 2408            | 23      | 2448            |
| 4       | 2410            | 24      | 2450            |
| 5       | 2412            | 25      | 2452            |
| 6       | 2414            | 26      | 2454            |
| 7       | 2416            | 27      | 2456            |
| 8       | 2418            | 28      | 2458            |
| 9       | 2420            | 29      | 2460            |
| 10      | 2422            | 30      | 2462            |
| 11      | 2424            | 31      | 2464            |
| 12      | 2426            | 32      | 2466            |
| 13      | 2428            | 33      | 2468            |
| 14      | 2430            | 34      | 2470            |
| 15      | 2432            | 35      | 2472            |
| 16      | 2434            | 36      | 2474            |
| 17      | 2436            | 37      | 2476            |
| 18      | 2438            | 38      | 2478            |
| 19      | 2440            | 39      | 2480            |

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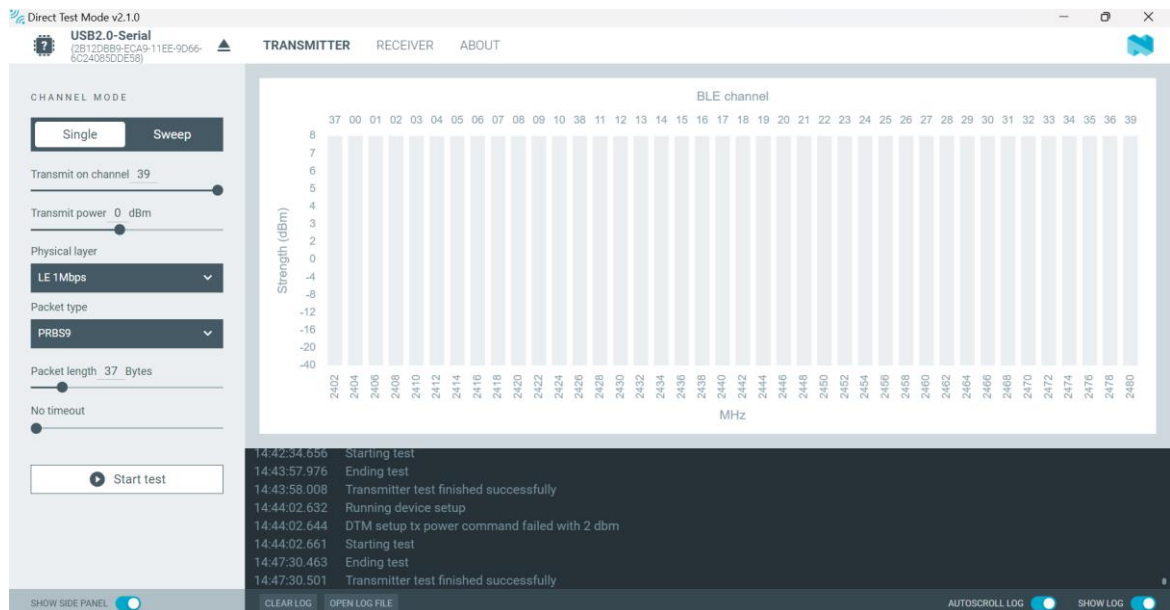
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### 2.0 Technical Details

#### 2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2017 Regulations and ANSI C63.10:2013 for FCC Certification. The device was realized by test software, and there is no power set.



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### 2.2 Test Standards and Results Summary Tables

| EMISSION<br>Results Summary    |                                      |                   |                     |                                     |                          |                          |
|--------------------------------|--------------------------------------|-------------------|---------------------|-------------------------------------|--------------------------|--------------------------|
| Test Condition                 | Test Requirement                     | Test Method       | Class /<br>Severity | Test Result                         |                          |                          |
|                                |                                      |                   |                     | Pass                                | Failed                   | N/A                      |
| Maximum Peak Output Power      | FCC 47CFR 15.247(b)(3)               | ANSI C63.10: 2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Radiated Spurious Emissions    | FCC 47CFR 15.209<br>FCC 47CFR 15.205 | ANSI C63.10: 2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| AC Mains Conducted Emissions   | FCC 47CFR 15.207                     | ANSI C63.10: 2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Conducted Spurious Emissions   | FCC 47CFR 15.247(d)                  | ANSI C63.10: 2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Power Spectral Density         | FCC 47CFR 15.247(e)                  | ANSI C63.10: 2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6dB Bandwidth                  | FCC 47CFR 15.247(a)(2)               | ANSI C63.10: 2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Band Edge Emissions (Radiated) | FCC 47CFR 15.247(d)                  | ANSI C63.10: 2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Antenna requirement            | FCC 47CFR 15.203                     | N/A               | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

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### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Maximum Peak Output Power**

|                    |                        |
|--------------------|------------------------|
| Test Requirement:  | FCC 47CFR 15.247(b)(3) |
| Test Method:       | ANSI C63.10: 2013      |
| Test Date:         | 2024-10-09             |
| Mode of Operation: | Bluetooth DTS Tx mode  |

|                           |                        |                               |
|---------------------------|------------------------|-------------------------------|
| Ambient Temperature: 25°C | Relative Humidity: 51% | Atmospheric Pressure: 101 kPa |
|---------------------------|------------------------|-------------------------------|

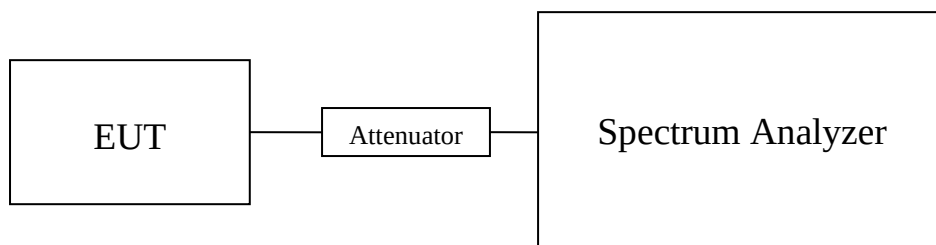
#### **Test Method:**

The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

#### **Spectrum Analyzer Setting:**

RBW = 2 MHz,  
VBW= 6 MHz,  
Sweep = Auto,  
Span = 6 MHz  
Detector = Peak,  
Trace = Max. hold

#### **Test Setup:**



Note: a temporary antenna connector was soldered to the RF output.

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### Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

| Results of BT DTS Tx Mode (2402MHz to 2480MHz) : Pass (TX Unit) (GFSK 1Mbps) |                |                      |                   |              |                |
|------------------------------------------------------------------------------|----------------|----------------------|-------------------|--------------|----------------|
| Channel                                                                      | Frequency(MHz) | Conducted power(dBm) | Antenna Gain(dBi) | E.I.R.P(dBm) | E.I.R.P (Watt) |
| 0                                                                            | 2402           | -0.778               | 0                 | -0.778       | 0.000836       |
| 19                                                                           | 2440           | -0.874               | 0                 | -0.874       | 0.000818       |
| 39                                                                           | 2480           | -1.031               | 0                 | -1.031       | 0.000789       |

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB  
1GHz to 26GHz 1.7dB

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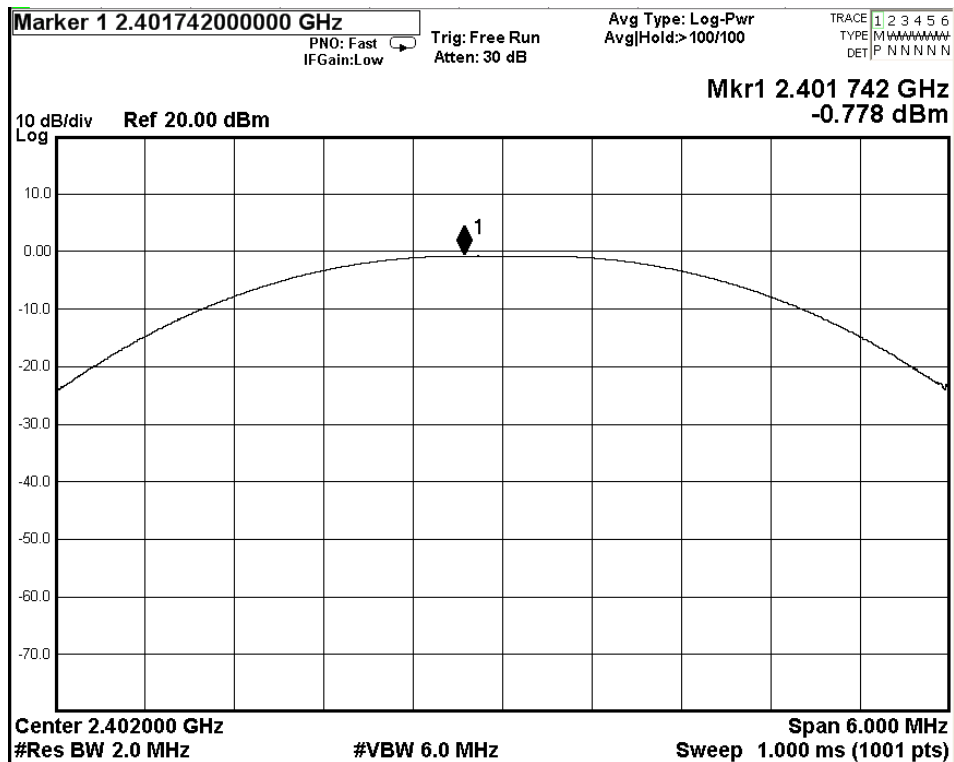
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Test plot of Maximum Peak Conducted Output Power :

Bluetooth Communication mode (BT DTS-GFSK 1Mbps, 2402MHz)



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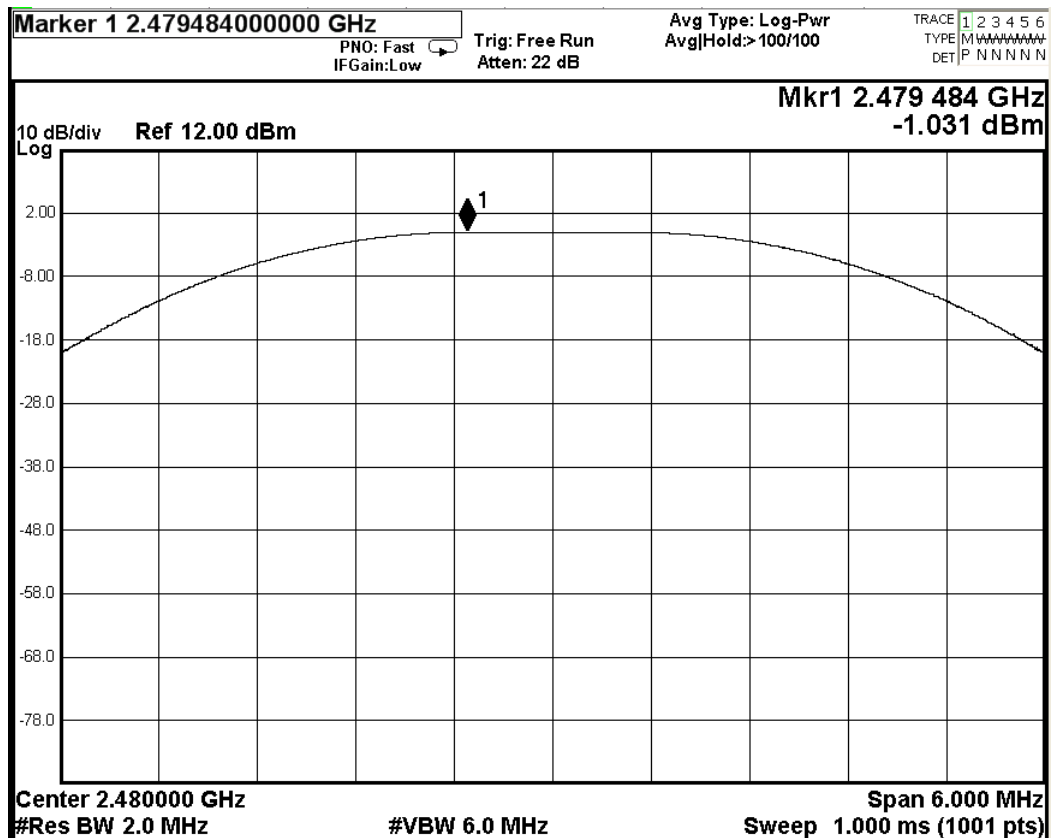
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Bluetooth Communication mode (BT DTS-GFSK 1Mbps, 2440MHz)



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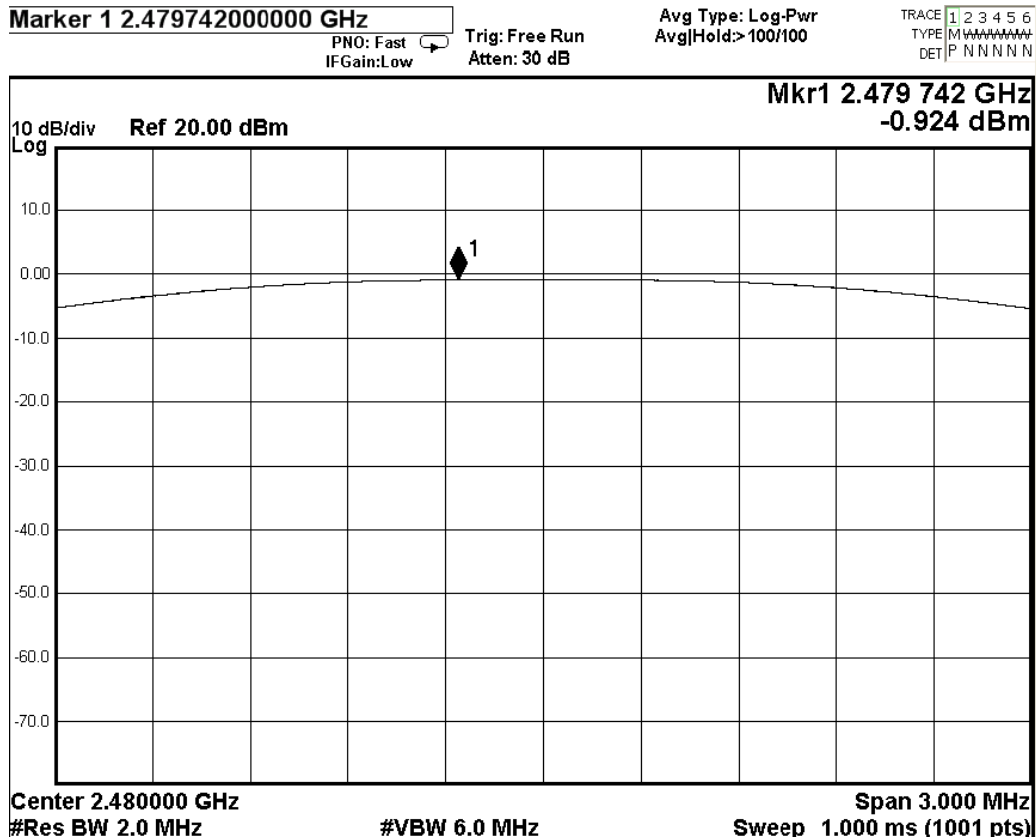


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Bluetooth Communication mode (BT DTS-GFSK 1Mbps, 2480MHz)



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### 3.1.2 Radiated Emissions

|                    |                                               |
|--------------------|-----------------------------------------------|
| Test Requirement:  | FCC 47CFR 15.209                              |
| Test Method:       | ANSI C63.10:2013                              |
| Test Date:         | 2024-10-10 to 2024-10-14                      |
| Mode of Operation: | Tx mode / Bluetooth Communication mode (GFSK) |

Ambient Temperature: 25°C      Relative Humidity: 50%      Atmospheric Pressure: 101 kPa

#### Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with  
Registration Number: HK0001  
Test Firm Registration Number: 367672

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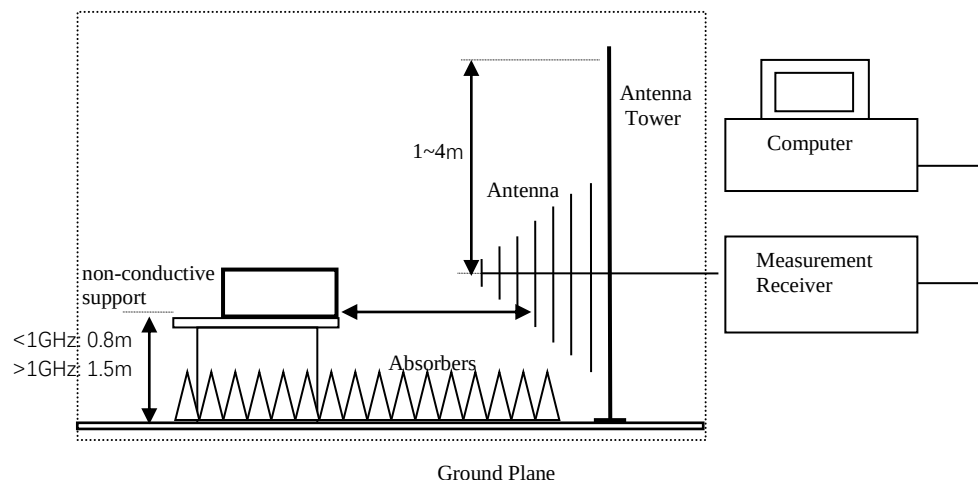
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### Spectrum Analyzer Setting:

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| 9KHz – 30MHz (Pk & Av) | RBW: 10kHz<br>VBW: 30kHz<br>Sweep: Auto<br>Span: Fully capture the emissions being measured<br>Trace: Max. hold   |
| 30MHz – 1GHz (QP)      | RBW: 120kHz<br>VBW: 120kHz<br>Sweep: Auto<br>Span: Fully capture the emissions being measured<br>Trace: Max. hold |
| Above 1GHz (Pk)        | RBW: 1MHz<br>VBW: 1MHz<br>Sweep: Auto<br>Span: Fully capture the emissions being measured<br>Trace: Max. hold     |
| Above 1GHz (Av)        | RBW: 1MHz<br>VBW: 10Hz<br>Sweep: Auto<br>Span: Fully capture the emissions being measured<br>Trace: Max. hold     |

### Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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### Limits for Radiated Emissions FCC 47 CFR 15.209]:

| Frequency Range | Quasi-Peak Limits |
|-----------------|-------------------|
| [MHz]           | [ $\mu$ V/m]      |
| 0.009-0.490     | 2400/F (kHz)      |
| 0.490-1.705     | 24000/F (kHz)     |
| 1.705-30        | 30                |
| 30-88           | 100               |
| 88-216          | 150               |
| 216-960         | 200               |
| Above 960       | 500               |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty (9kHz-30MHz): 2.0dB  
(30MHz -1GHz): 4.9dB  
(1GHz -6GHz): 4.02dB  
(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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### Result of Tx mode (2402.0 MHz) (GFSK 1Mbps) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions<br>Peak Value          |                           |                              |                             |                           |               |                     |
|-------------------------------------------------------------|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency<br>MHz                                            | Measured<br>Level<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Field<br>Strength<br>uV/m | Limit<br>uV/m | E-Field<br>Polarity |
| Emissions detected are more than 20 dB below the FCC Limits |                           |                              |                             |                           |               |                     |

### Result of Tx mode (2402.0 MHz) (GFSK 1Mbps) (Above 1GHz): Pass

| Field Strength of Spurious Emissions<br>Peak Value |                               |                              |                             |                        |              |                     |
|----------------------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency<br>MHz                                   | Measured<br>Level @3m<br>dBμV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB | E-Field<br>Polarity |
| 4804.0                                             | 56.3                          | 0.82                         | 57.1                        | 74.0                   | 16.9         | Vertical            |
| 4804.0                                             | 56.9                          | 0.52                         | 57.4                        | 74.0                   | 16.6         | Horizontal          |
| 7206.0                                             | 50.0                          | 7                            | 57.0                        | 74.0                   | 17.0         | Vertical            |
| 7206.0                                             | 50.3                          | 6.5                          | 56.8                        | 74.0                   | 17.2         | Horizontal          |
| 9608.0                                             | 46.4                          | 8.5                          | 54.9                        | 74.0                   | 19.1         | Vertical            |
| 9608.0                                             | 47.1                          | 8.3                          | 55.4                        | 74.0                   | 18.6         | Horizontal          |
| 12010.0                                            | 44.9                          | 10.9                         | 55.8                        | 74.0                   | 18.2         | Vertical            |
| 12010.0                                            | 45.1                          | 10.8                         | 55.9                        | 74.0                   | 18.1         | Horizontal          |

| Field Strength of Spurious Emissions<br>Average Value |                               |                              |                             |                        |              |                     |
|-------------------------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB | E-Field<br>Polarity |
| 4804.0                                                | 41.3                          | 0.82                         | 42.1                        | 54.0                   | 11.9         | Vertical            |
| 4804.0                                                | 41.4                          | 0.52                         | 41.9                        | 54.0                   | 12.1         | Horizontal          |
| 7206.0                                                | 35.0                          | 7                            | 42.0                        | 54.0                   | 12.0         | Vertical            |
| 7206.0                                                | 35.1                          | 6.5                          | 41.6                        | 54.0                   | 12.4         | Horizontal          |
| 9608.0                                                | 32.1                          | 8.5                          | 40.6                        | 54.0                   | 13.4         | Vertical            |
| 9608.0                                                | 32.6                          | 8.3                          | 40.9                        | 54.0                   | 13.1         | Horizontal          |
| 12010.0                                               | 30.6                          | 10.9                         | 41.5                        | 54.0                   | 12.5         | Vertical            |
| 12010.0                                               | 30.0                          | 10.8                         | 40.8                        | 54.0                   | 13.2         | Horizontal          |

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Result of Tx mode (2440.0 MHz) (GFSK 1Mbps) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions<br>Peak Value          |                           |                              |                             |                           |               |                     |
|-------------------------------------------------------------|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency<br>MHz                                            | Measured<br>Level<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Field<br>Strength<br>uV/m | Limit<br>uV/m | E-Field<br>Polarity |
| Emissions detected are more than 20 dB below the FCC Limits |                           |                              |                             |                           |               |                     |

Result of Tx mode (2440.0 MHz) (GFSK 1Mbps) (Above 1GHz): Pass

| Field Strength of Spurious Emissions<br>Peak Value |                               |                              |                             |                        |              |                     |
|----------------------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency<br>MHz                                   | Measured<br>Level @3m<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB | E-Field<br>Polarity |
| 4880.0                                             | 56.8                          | 0.82                         | 57.6                        | 74.0                   | 16.4         | Vertical            |
| 4880.0                                             | 56.6                          | 0.52                         | 57.1                        | 74.0                   | 16.9         | Horizontal          |
| 7320.0                                             | 50.0                          | 7                            | 57.0                        | 74.0                   | 17.0         | Vertical            |
| 7320.0                                             | 50.7                          | 6.5                          | 57.2                        | 74.0                   | 16.8         | Horizontal          |
| 9760.0                                             | 47.2                          | 8.5                          | 55.7                        | 74.0                   | 18.3         | Vertical            |
| 9760.0                                             | 47.4                          | 8.3                          | 55.7                        | 74.0                   | 18.3         | Horizontal          |
| 12200.0                                            | 45.1                          | 10.9                         | 56.0                        | 74.0                   | 18.0         | Vertical            |
| 12200.0                                            | 44.9                          | 10.8                         | 55.7                        | 74.0                   | 18.3         | Horizontal          |

| Field Strength of Spurious Emissions<br>Average Value |                               |                              |                             |                        |              |                     |
|-------------------------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB | E-Field<br>Polarity |
| 4880.0                                                | 41.2                          | 0.82                         | 42.0                        | 54.0                   | 12.0         | Vertical            |
| 4880.0                                                | 41.0                          | 0.52                         | 41.5                        | 54.0                   | 12.5         | Horizontal          |
| 7320.0                                                | 34.8                          | 7                            | 41.8                        | 54.0                   | 12.2         | Vertical            |
| 7320.0                                                | 34.9                          | 6.5                          | 41.4                        | 54.0                   | 12.6         | Horizontal          |
| 9760.0                                                | 32.2                          | 8.5                          | 40.7                        | 54.0                   | 13.3         | Vertical            |
| 9760.0                                                | 33.1                          | 8.3                          | 41.4                        | 54.0                   | 12.6         | Horizontal          |
| 12200.0                                               | 30.1                          | 10.9                         | 41.0                        | 54.0                   | 13.0         | Vertical            |
| 12200.0                                               | 30.3                          | 10.8                         | 41.1                        | 54.0                   | 12.9         | Horizontal          |

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Result of Tx mode (2480.0 MHz) (GFSK 1Mbps) (9kHz – 30MHz): Pass

| Field Strength of Spurious Emissions<br>Peak Value          |                           |                              |                             |                           |               |                     |
|-------------------------------------------------------------|---------------------------|------------------------------|-----------------------------|---------------------------|---------------|---------------------|
| Frequency<br>MHz                                            | Measured<br>Level<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Field<br>Strength<br>uV/m | Limit<br>uV/m | E-Field<br>Polarity |
| Emissions detected are more than 20 dB below the FCC Limits |                           |                              |                             |                           |               |                     |

Result of Tx mode (2480.0 MHz) (GFSK 1Mbps) (Above 1GHz): Pass

| Field Strength of Spurious Emissions<br>Peak Value |                               |                              |                             |                        |              |                     |
|----------------------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency<br>MHz                                   | Measured<br>Level @3m<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB | E-Field<br>Polarity |
| 4960.0                                             | 56.5                          | 0.82                         | 57.3                        | 74.0                   | 16.7         | Vertical            |
| 4960.0                                             | 57.0                          | 0.52                         | 57.5                        | 74.0                   | 16.5         | Horizontal          |
| 7440.0                                             | 50.0                          | 7                            | 57.0                        | 74.0                   | 17.0         | Vertical            |
| 7440.0                                             | 50.7                          | 6.5                          | 57.2                        | 74.0                   | 16.8         | Horizontal          |
| 9920.0                                             | 45.8                          | 8.5                          | 54.3                        | 74.0                   | 19.7         | Vertical            |
| 9920.0                                             | 47.0                          | 8.3                          | 55.3                        | 74.0                   | 18.7         | Horizontal          |
| 12400.0                                            | 44.5                          | 10.9                         | 55.4                        | 74.0                   | 18.6         | Vertical            |
| 12400.0                                            | 45.0                          | 10.8                         | 55.8                        | 74.0                   | 18.2         | Horizontal          |

| Field Strength of Spurious Emissions<br>Average Value |                               |                              |                             |                        |              |                     |
|-------------------------------------------------------|-------------------------------|------------------------------|-----------------------------|------------------------|--------------|---------------------|
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBuV | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB | E-Field<br>Polarity |
| 4960.0                                                | 41.1                          | 0.82                         | 41.9                        | 54.0                   | 12.1         | Vertical            |
| 4960.0                                                | 40.8                          | 0.52                         | 41.3                        | 54.0                   | 12.7         | Horizontal          |
| 7440.0                                                | 34.6                          | 7                            | 41.6                        | 54.0                   | 12.4         | Vertical            |
| 7440.0                                                | 34.8                          | 6.5                          | 41.3                        | 54.0                   | 12.7         | Horizontal          |
| 9920.0                                                | 33.2                          | 8.5                          | 41.7                        | 54.0                   | 12.3         | Vertical            |
| 9920.0                                                | 32.9                          | 8.3                          | 41.2                        | 54.0                   | 12.8         | Horizontal          |
| 12400.0                                               | 30.0                          | 10.9                         | 40.9                        | 54.0                   | 13.1         | Vertical            |
| 12400.0                                               | 30.4                          | 10.8                         | 41.2                        | 54.0                   | 12.8         | Horizontal          |

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### Radiated Emissions Measurement:

#### Limit :

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

### Result: RF Radiated Emissions (Lowest)-GFSK 1Mbps

| Field Strength of Band-edge Compliance |                                     |                              |                                   |                              |              |                     |
|----------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Peak Value                             |                                     |                              |                                   |                              |              |                     |
| Frequency<br>MHz                       | Measured<br>Level @3m<br>dB $\mu$ V | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB | E-Field<br>Polarity |
| 2390.0                                 | 47.6                                | -4.8                         | 42.8                              | 74.0                         | 31.2         | Vertical            |
| 2390.0                                 | 48.1                                | -4.7                         | 43.4                              | 74.0                         | 30.6         | Horizontal          |

| Field Strength of Band-edge Compliance |                                     |                              |                                   |                              |              |                     |
|----------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Average Value                          |                                     |                              |                                   |                              |              |                     |
| Frequency<br>MHz                       | Measured<br>Level @3m<br>dB $\mu$ V | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB | E-Field<br>Polarity |
| 2390.0                                 | 42.1                                | -4.8                         | 37.3                              | 54.0                         | 16.7         | Vertical            |
| 2390.0                                 | 42.3                                | -4.7                         | 37.6                              | 54.0                         | 16.4         | Horizontal          |

### Result: RF Radiated Emissions (Highest) -GFSK 1Mbps

| Field Strength of Band-edge Compliance |                                     |                              |                                   |                              |              |                     |
|----------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Peak Value                             |                                     |                              |                                   |                              |              |                     |
| Frequency<br>MHz                       | Measured<br>Level @3m<br>dB $\mu$ V | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB | E-Field<br>Polarity |
| 2483.5                                 | 58.8                                | -4.8                         | 54.0                              | 74.0                         | 20.0         | Vertical            |
| 2483.5                                 | 59.0                                | -4.7                         | 54.3                              | 74.0                         | 19.7         | Horizontal          |

| Field Strength of Band-edge Compliance |                                     |                              |                                   |                              |              |                     |
|----------------------------------------|-------------------------------------|------------------------------|-----------------------------------|------------------------------|--------------|---------------------|
| Average Value                          |                                     |                              |                                   |                              |              |                     |
| Frequency<br>MHz                       | Measured<br>Level @3m<br>dB $\mu$ V | Correction<br>Factor<br>dB/m | Field<br>Strength<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB | E-Field<br>Polarity |
| 2483.5                                 | 44.2                                | -4.8                         | 39.4                              | 54.0                         | 14.6         | Vertical            |
| 2483.5                                 | 44.0                                | -4.7                         | 39.3                              | 54.0                         | 14.7         | Horizontal          |

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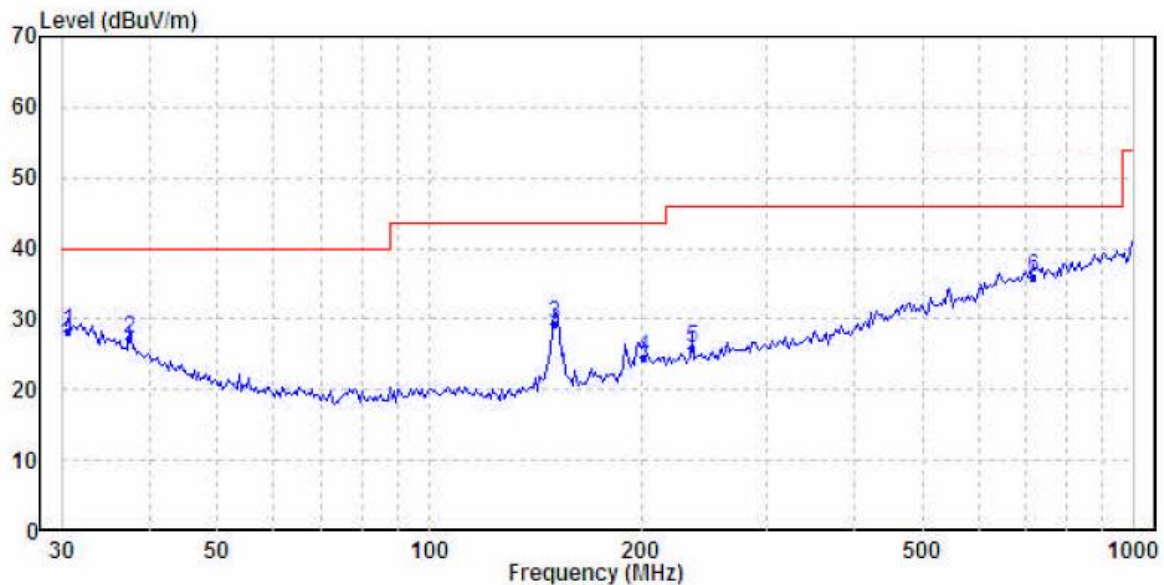
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### Results of Bluetooth mode (2402.0 MHz) (30MHz – 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases)

Horizontal



Ambient Temperature: 22.9C  
Relative Humidity : 52.4%  
Air Pressure : 101.0kPa

|   | Freq    | Level  | Limit  | Over   | Remark | Pol/Phase  |
|---|---------|--------|--------|--------|--------|------------|
|   | MHz     | dBuV/m | Line   | Limit  |        |            |
|   |         |        | dBuV/m | dB     |        |            |
| 1 | 30.638  | 28.21  | 40.00  | -11.79 | QP     | Horizontal |
| 2 | 37.548  | 27.15  | 40.00  | -12.85 | QP     | Horizontal |
| 3 | 150.538 | 29.31  | 43.50  | -14.19 | QP     | Horizontal |
| 4 | 200.688 | 24.69  | 43.50  | -18.81 | QP     | Horizontal |
| 5 | 235.816 | 25.98  | 46.00  | -20.02 | QP     | Horizontal |
| 6 | 719.200 | 35.82  | 46.00  | -10.18 | QP     | Horizontal |

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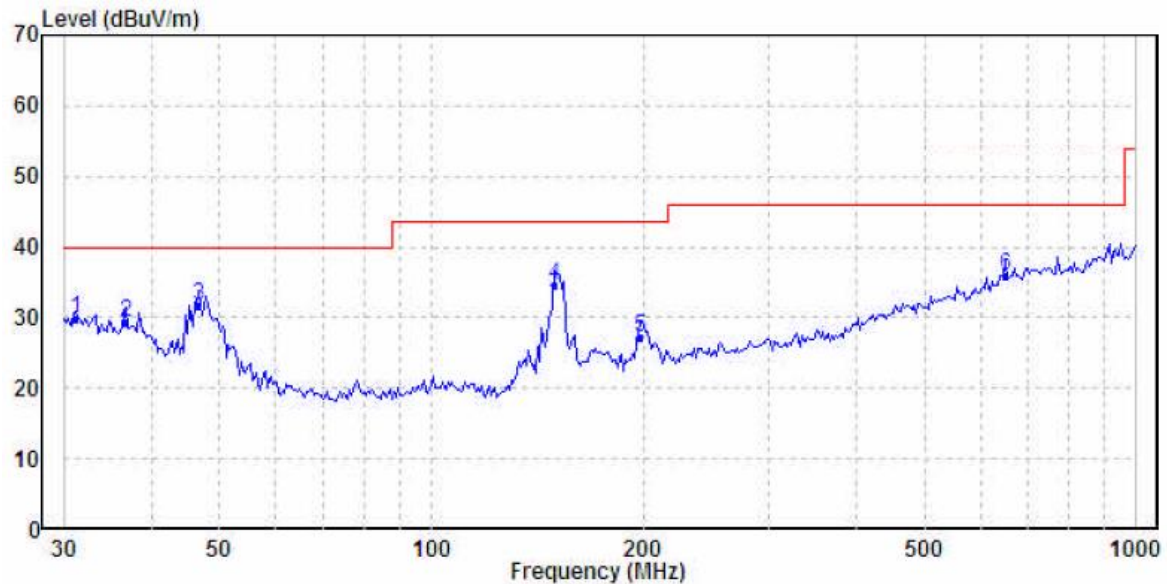
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### Results of Bluetooth mode (2402.0 MHz) (30MHz – 1GHz): Pass

Please refer to the following table for result details(The data is the worst cases)

Vertical



Ambient Temperature: 22.9C  
Relative Humidity : 52.4%  
Air Pressure : 101.0kPa

|   | Freq    | Level  | Limit  | Over   | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|-----------|
|   | MHz     | dBuV/m | Line   | Limit  |        |           |
|   |         |        | dBuV/m | dB     |        |           |
| 1 | 31.289  | 29.87  | 40.00  | -10.13 | QP     | Vertical  |
| 2 | 36.766  | 29.35  | 40.00  | -10.65 | QP     | Vertical  |
| 3 | 46.666  | 31.66  | 40.00  | -8.34  | QP     | Vertical  |
| 4 | 149.486 | 34.68  | 43.50  | -8.82  | QP     | Vertical  |
| 5 | 197.893 | 27.33  | 43.50  | -16.17 | QP     | Vertical  |
| 6 | 651.942 | 35.96  | 46.00  | -10.04 | QP     | Vertical  |

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### 3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207  
Test Method: ANSI C63.10:2013  
Test Date: 2024-10-16  
Mode of Operation: TX mode  
Test Voltage: 120Va.c. 60Hz

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

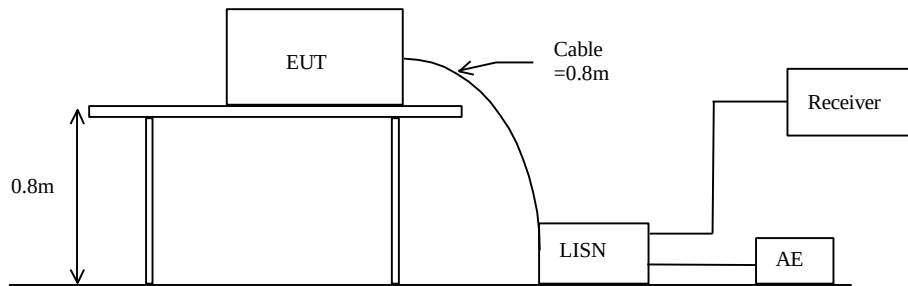
#### Test Method:

The test was performed in accordance with ANSI C63.10:2013, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz  
Detector = MaxPeak and CISPR AV

#### Test Setup:



#### Limits for Conducted Emissions (FCC 47 CFR 15.207):

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[dBμV] | Average<br>[dBμV] |
|--------------------------|-----------------------------|-------------------|
| 0.15-0.5                 | 66 to 56*                   | 56 to 46*         |
| 0.5-5.0                  | 56                          | 46                |
| 5.0-30.0                 | 60                          | 50                |

\* Decreases with the logarithm of the frequency.

#### Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

-\*- Emission(s) that is far below the corresponding limit line.

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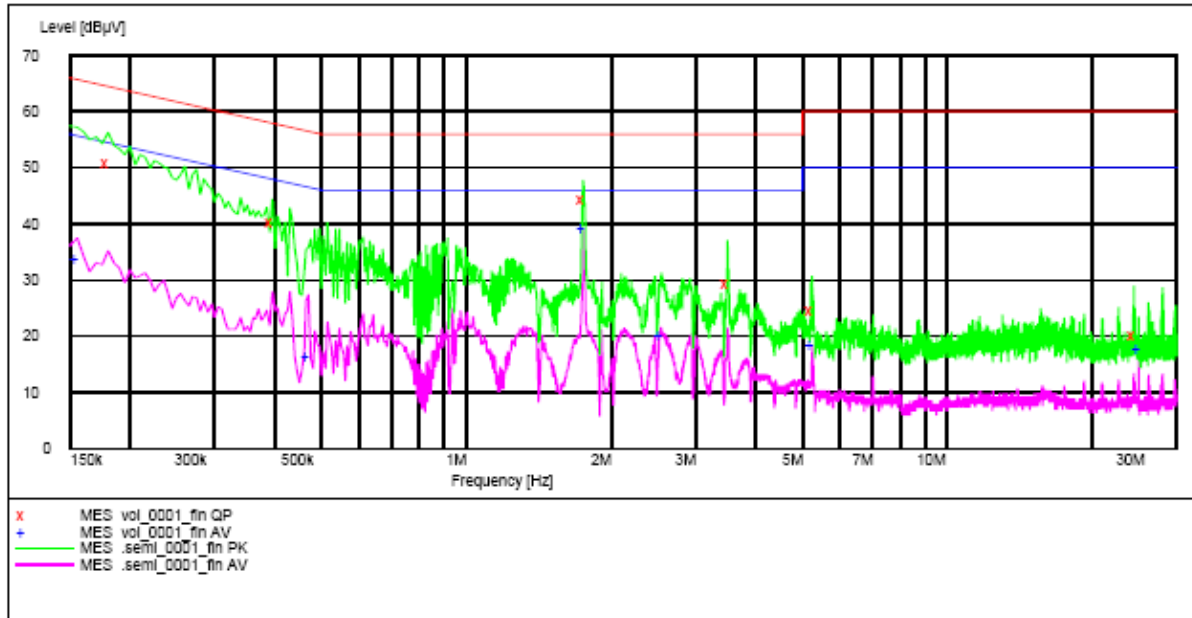
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### Results of Bluetooth mode (L): PASS

Please refer to the following diagram for individual results.



#### MEASUREMENT RESULT: "vol\_0001\_fin QP"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dBμV  | dB     | dBμV  | dB     |      |     |
| 0.180000  | 50.80 | 9.7    | 65    | 13.6   | L1   | GND |
| 0.395000  | 40.10 | 9.7    | 58    | 17.9   | L1   | GND |
| 1.750000  | 44.40 | 9.8    | 56    | 11.6   | L1   | GND |
| 3.500000  | 29.40 | 9.8    | 56    | 26.6   | L1   | GND |
| 5.240000  | 24.50 | 9.9    | 60    | 35.5   | L1   | GND |
| 24.510000 | 20.00 | 10.6   | 60    | 40.0   | L1   | GND |

#### MEASUREMENT RESULT: "vol\_0001\_fin AV"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dBμV  | dB     | dBμV  | dB     |      |     |
| 0.155000  | 33.70 | 9.7    | 56    | 22.0   | L1   | GND |
| 0.470000  | 16.20 | 9.7    | 47    | 30.3   | L1   | GND |
| 1.755000  | 39.10 | 9.8    | 46    | 6.9    | L1   | GND |
| 2.545000  | 20.20 | 9.8    | 46    | 25.8   | L1   | GND |
| 5.255000  | 18.30 | 9.9    | 50    | 31.7   | L1   | GND |
| 25.060000 | 17.80 | 10.7   | 50    | 32.2   | L1   | GND |

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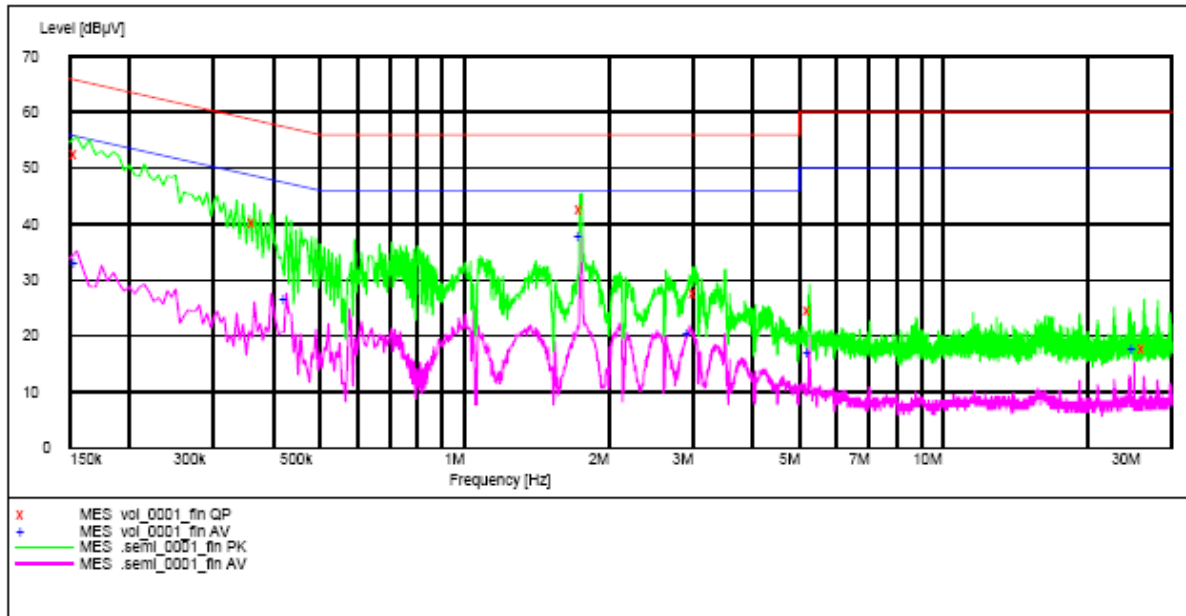
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### Results of Bluetooth mode (N): PASS

Please refer to the following diagram for individual results.



#### MEASUREMENT RESULT: "vol\_0001\_fin\_QP"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dBµV  | dB     | dBµV  | dB     |      |     |
| 0.155000  | 52.40 | 9.7    | 66    | 13.3   | N    | GND |
| 0.365000  | 40.30 | 9.7    | 59    | 18.4   | N    | GND |
| 1.760000  | 42.60 | 9.8    | 56    | 13.4   | N    | GND |
| 3.040000  | 27.50 | 9.8    | 56    | 28.5   | N    | GND |
| 5.265000  | 24.70 | 9.9    | 60    | 35.3   | N    | GND |
| 26.315000 | 17.70 | 10.8   | 60    | 42.3   | N    | GND |

#### MEASUREMENT RESULT: "vol\_0001\_fin\_AV"

| Frequency | Level | Transd | Limit | Margin | Line | PE  |
|-----------|-------|--------|-------|--------|------|-----|
| MHz       | dBµV  | dB     | dBµV  | dB     |      |     |
| 0.155000  | 33.00 | 9.7    | 56    | 22.8   | N    | GND |
| 0.425000  | 26.70 | 9.7    | 47    | 20.7   | N    | GND |
| 1.750000  | 37.80 | 9.8    | 46    | 8.2    | N    | GND |
| 2.955000  | 20.60 | 9.8    | 46    | 25.4   | N    | GND |
| 5.265000  | 17.20 | 9.9    | 50    | 32.8   | N    | GND |
| 25.060000 | 17.80 | 10.7   | 50    | 32.2   | N    | GND |

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### 3.1.4 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)  
Test Method: ANSI C63.10:2013  
Test Date: 2024-10-15  
Mode of Operation: Tx mode

Ambient Temperature: 25°C      Relative Humidity: 51%      Atmospheric Pressure: 101 kPa

#### Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz, VBW= 10KHz, Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple, Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

#### Test Setup:

As Test Setup of clause 3.1.1 in this test report.

#### Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

**Results of Tx Mode GFSK 1Mbps (Tx:2402MHz to 2480MHz) : Pass (Tx Unit)**

**Maximum power spectral density**

| Transmitter Frequency<br>(MHz) | Maximum Power spectral density<br>level / 3kHz band<br>(dBm) | Maximum Power spectral density<br>/ 3kHz band limit |
|--------------------------------|--------------------------------------------------------------|-----------------------------------------------------|
| 2402.0                         | -16.252                                                      | 8dBm                                                |
| 2440.0                         | -16.139                                                      | 8dBm                                                |
| 2480.0                         | -16.551                                                      | 8dBm                                                |

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## Test Report

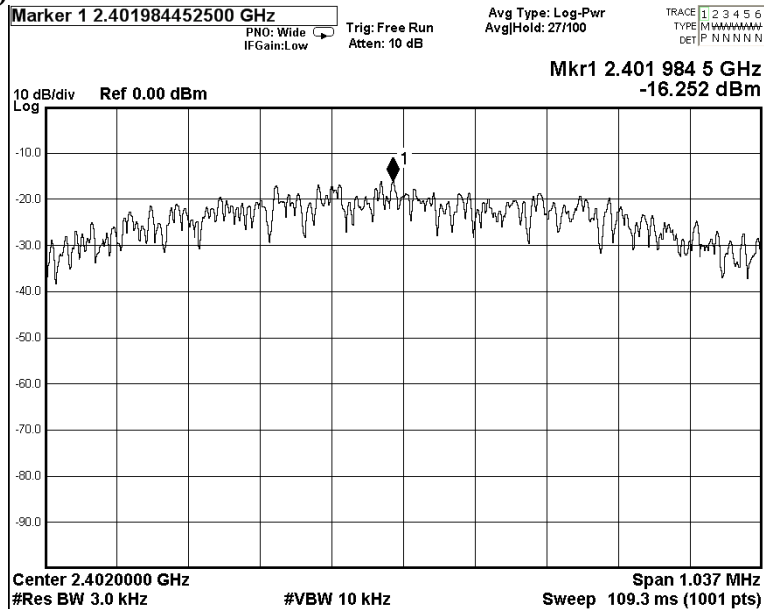
Date : 2024-12-09

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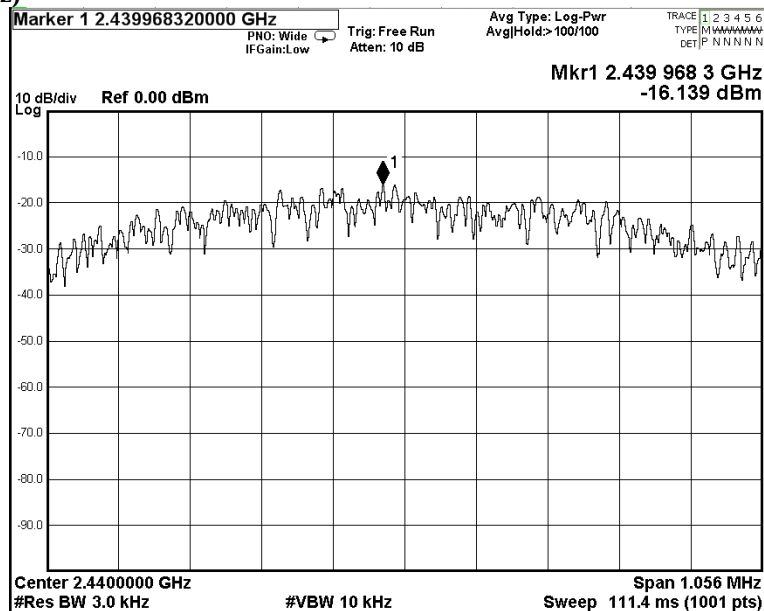
No. : HMD24100009

Tx mode GFSK 1Mbps (Tx: 2402MHz to 2480MHz)

CH 0 (2402.0 MHz)



CH 19 (2440.0 MHz)



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## Test Report

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### 3.1.5 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)  
Test Method: ANSI C63.10:2013  
Test Date: 2024-10-15  
Mode of Operation: Tx mode

Ambient Temperature: 25°C      Relative Humidity: 51%      Atmospheric Pressure: 101 kPa

#### Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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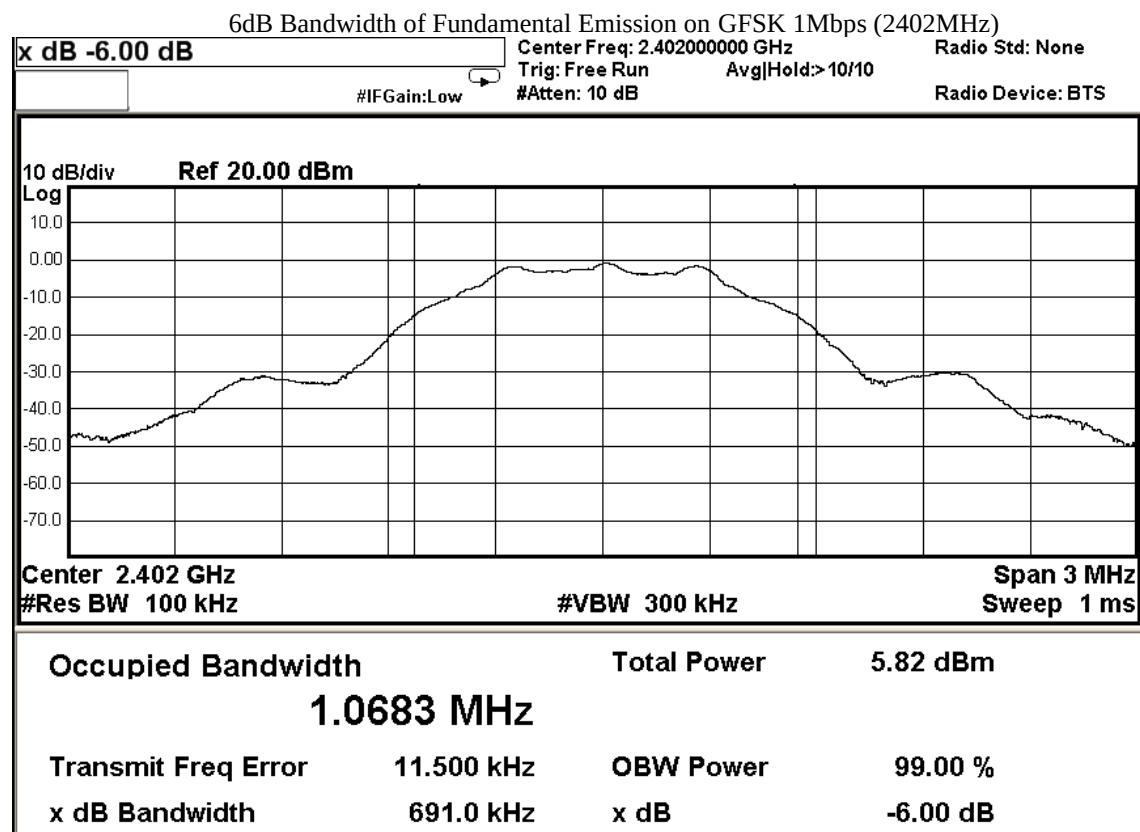
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### Limits for 6dB Spectrum Bandwidth Measurement:

| Center Frequency<br>[MHz] | 6dB Bandwidth<br>[KHz] | FCC Limits<br>[kHz] |
|---------------------------|------------------------|---------------------|
| 2402.0                    | 691.0                  | > 500               |



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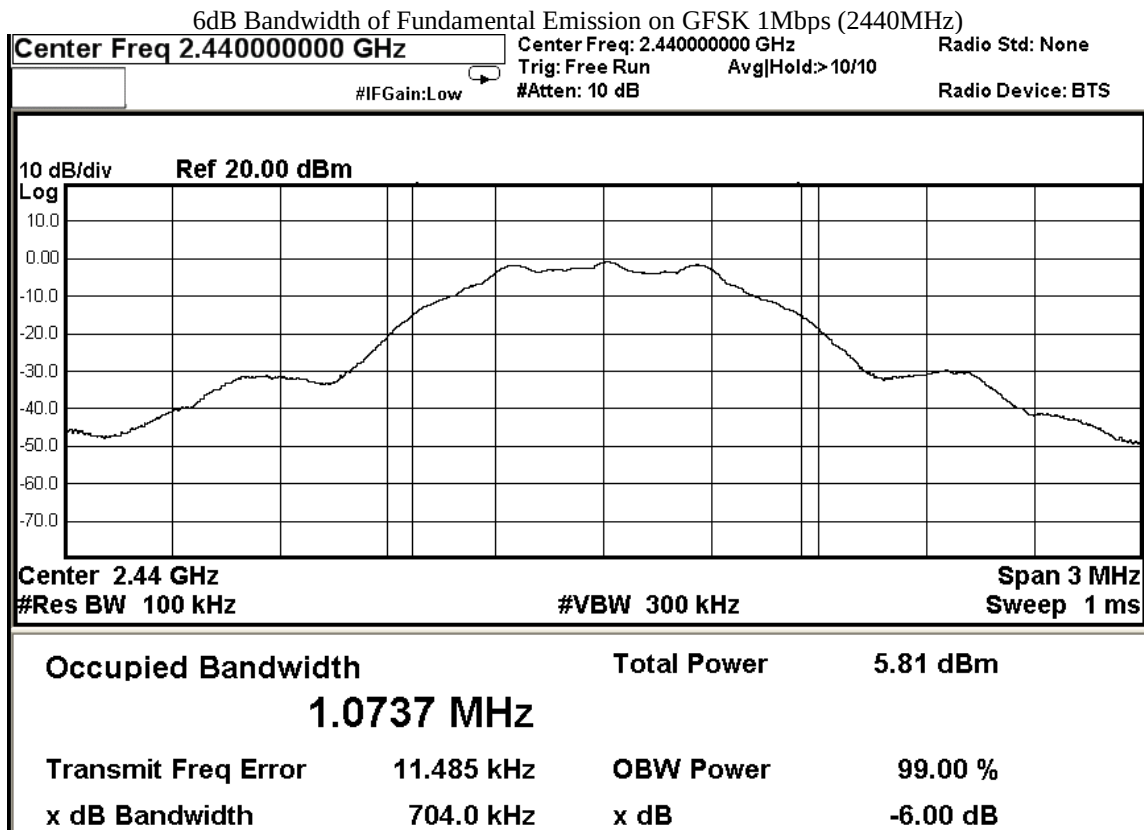
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### Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range<br>[MHz] | 6dB Bandwidth<br>[KHz] | FCC Limits<br>[kHz] |
|--------------------------|------------------------|---------------------|
| 2440.0                   | 704.0                  | > 500               |



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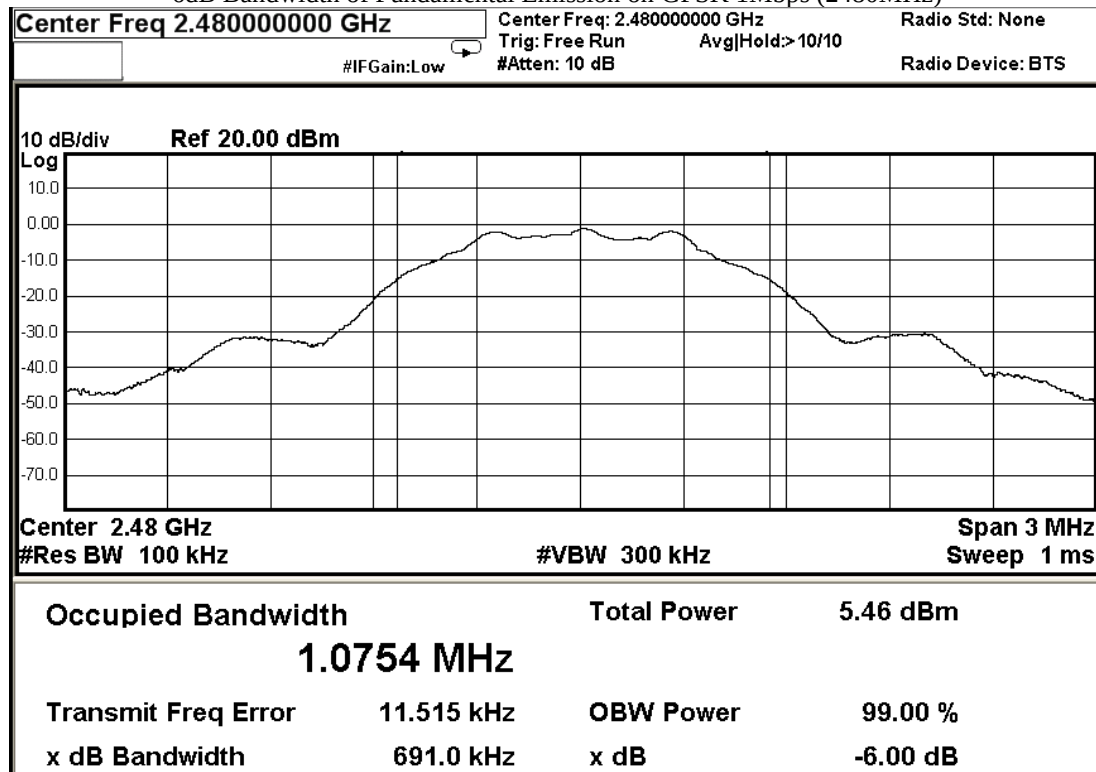
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### Limits for 6dB Spectrum Bandwidth Measurement:

| Frequency Range<br>[MHz] | 6dB Bandwidth<br>[KHz] | FCC Limits<br>[kHz] |
|--------------------------|------------------------|---------------------|
| 2480.0                   | 691.0                  | > 500               |

### 6dB Bandwidth of Fundamental Emission on GFSK 1Mbps (2480MHz)



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### 3.1.6 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247  
Test Method: ANSI C63.10:2013  
Test Date: 2024-10-13  
Mode of Operation: Tx mode

Ambient Temperature: 25°C      Relative Humidity: 51%      Atmospheric Pressure: 101 kPa

#### Test Method:

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW are set to 100kHz and VBW are set to 300kHz for this measurement.

#### Test Setup:

As Test Setup of clause 3.1.2 in this test report.

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### Band-edge Compliance of RF Conducted Emissions Measurement:

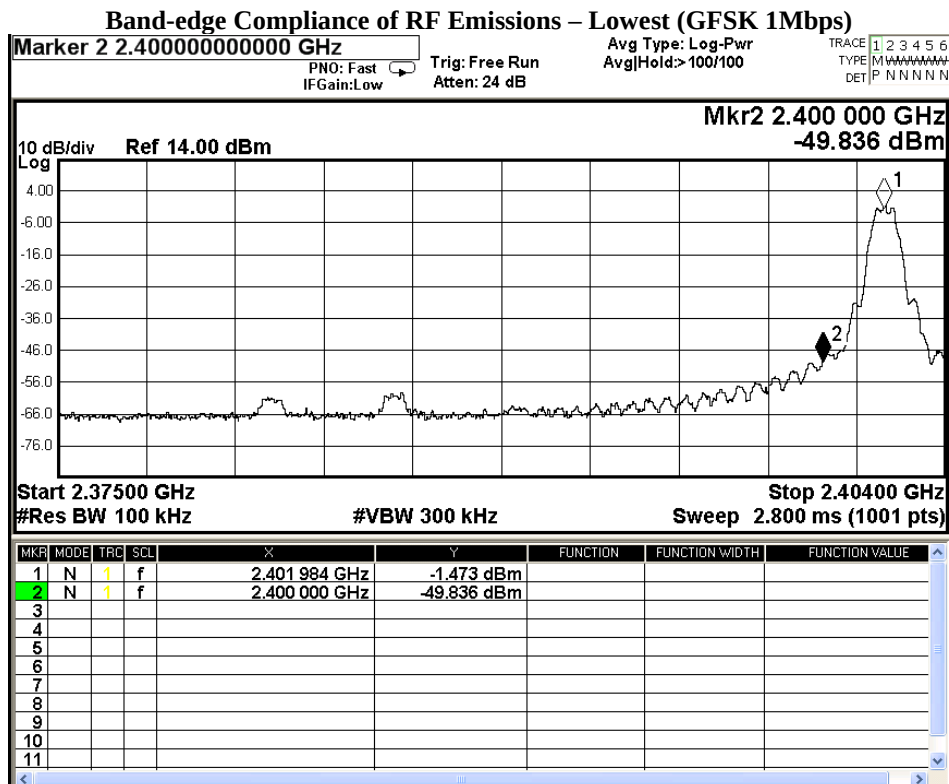
#### Limit :

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. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

### Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range                  | Reference level | Limit   | The highest conducted band edge emission | Result |
|----------------------------------|-----------------|---------|------------------------------------------|--------|
| [MHz]                            | [dBm]           | [dBm]   | [dBm]                                    |        |
| 2400 – Lowest Fundamental (2402) | -1.473          | -21.473 | -49.835                                  | PASS   |



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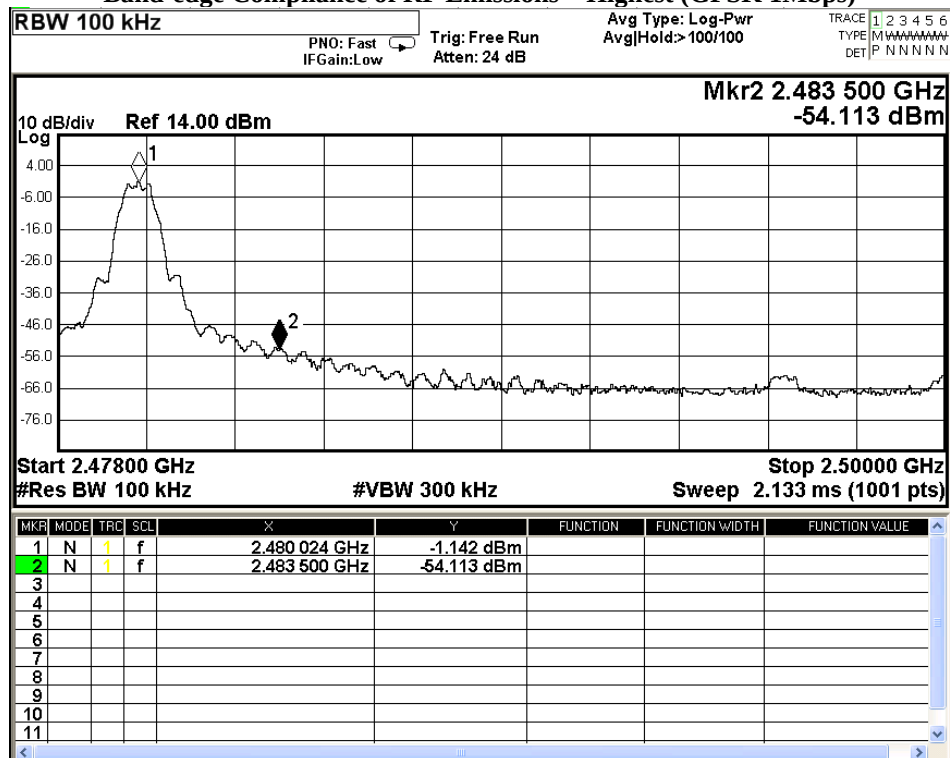
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### Band-edge Compliance of RF Conducted Emissions Measurement:

| Frequency Range                     | Reference level | Limit   | The highest conducted band edge emission | Result |
|-------------------------------------|-----------------|---------|------------------------------------------|--------|
| [MHz]                               | [dBm]           | [dBm]   | [dBm]                                    |        |
| 2483.5 - Highest Fundamental (2480) | -1.142          | -21.142 | -54.113                                  | PASS   |

### Band-edge Compliance of RF Emissions – Highest (GFSK 1Mbps)



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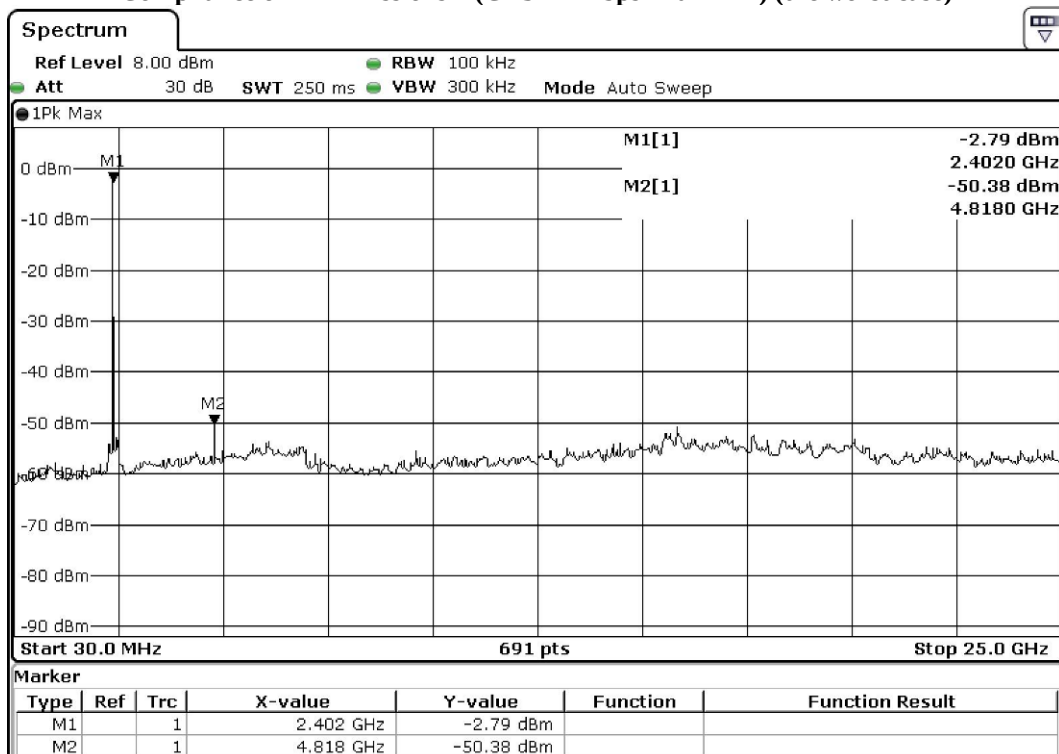
### Compliance of RF Emissions Measurement:

#### Limit :

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. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

### Compliance of RF Emissions – (GFSK 1Mbps 2402MHz) (the worst case)



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## Test Report

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### **3.1.7 Antenna Requirement**

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

### **Test Requirements: § 15.203**

#### **Test Specification:**

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.

#### **Test Results:**

This is Integrated antenna. There is no external antenna, the antenna gain = 0.0dBi. User is unable to remove or changed the Antenna.

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### Appendix A

#### List of Measurement Equipment

##### Radiated Emission

| EQP NO. | DESCRIPTION                             | MANUFACTURER            | MODEL NO. | SERIAL NO. | LAST CAL   | DUE CAL    |
|---------|-----------------------------------------|-------------------------|-----------|------------|------------|------------|
| EM215   | MULTIDEVICE CONTROLLER                  | EMCO                    | 2090      | 00024676   | N/A        | N/A        |
| EM217   | ELECTRIC POWERED<br>TURNABLE            | EMCO                    | 2088      | 00029144   | N/A        | N/A        |
| EM218   | ANECHOIC CHAMBER                        | ETS-LINDGREN            | FACT-3    | --         | 2024-04-18 | 2029-04-18 |
| EM356   | ANTENNA<br>POSITIONING TOWER            | ETS-LINDGREN            | 2171B     | 00150346   | N/A        | N/A        |
| EM293   | SPECTRUM ANALYZER                       | AGILENT<br>TECHNOLOGIES | N9020A    | MY50510152 | 2023-03-21 | 2025-03-21 |
| EM363   | SIGNAL ANALYZER(10HZ-<br>40GHZ)         | R & S                   | FSV40     | 101231     | 2024-01-17 | 2026-01-17 |
| EM299   | BROADBAND HORN ANTENNA                  | ETS-LINDGREN            | 3115      | 00114120   | 2023-01-25 | 2025-01-25 |
| EM300   | PYRAMIDAL STANDARD GAIN<br>HORN ANTENNA | ETS-LINDGREN            | 3160-09   | 00130130   | 2023-01-16 | 2025-01-16 |
| EM301   | PYRAMIDAL STANDARD GAIN<br>HORN ANTENNA | ETS-LINDGREN            | 3160-10   | 00130988   | 2023-02-15 | 2025-02-15 |
| EM353   | LOOP ANTENNA                            | ETS_LINDGREN            | 6502      | 00206533   | 2022-09-26 | 2025-09-26 |
| EM355   | BICONILOG ANTENNA                       | ETS-LINDGREN            | 3143B     | 00094856   | 2022-08-26 | 2025-08-26 |
| EM200   | DUAL CHANNEL POWER<br>METER             | R & S                   | NRVD      | 100592     | 2023-08-02 | 2025-08-02 |

##### Line Conducted

| EQP NO. | DESCRIPTION                            | MANUFACTURER                        | MODEL NO. | SERIAL NO.          | LAST CAL   | DUE CAL    |
|---------|----------------------------------------|-------------------------------------|-----------|---------------------|------------|------------|
| EM232   | LISN                                   | SCHAFFNER                           | NNB41     | 04/100082           | 2023-05-30 | 2025-05-30 |
| EM181   | EMI TEST RECEIVER                      | R & S                               | ESIB7     | 100072              | 2024-04-18 | 2025-04-18 |
| EM179   | IMPULSE LIMITER                        | R & S                               | ESH3-Z2   | 357.8810.52/54      | 2023-03-17 | 2025-03-17 |
| EM154   | SHIELDING ROOM                         | SIEMENS<br>MATSUSHITA<br>COMPONENTS | N/A       | 803-740-057-<br>99A | 2022-02-06 | 2027-02-06 |
| N/A     | MEASUREMENT AND<br>EVALUATION SOFTWARE | ROHDE & SCHWARZ                     | BSIB-K1   | V1.20               | N/A        | N/A        |

#### Remarks:-

CM     Corrective Maintenance  
N/A    Not Applicable  
TBD    To Be Determined

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### Appendix B Photographs of EUT

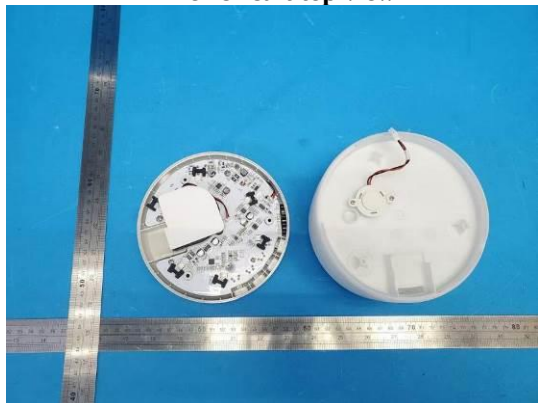
**View of the product**



**View of the product**



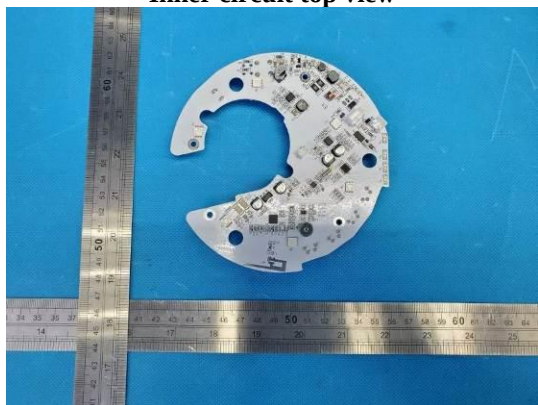
**Inner circuit top view**



**Inner circuit bottom view**



**Inner circuit top view**



**Inner circuit bottom view**



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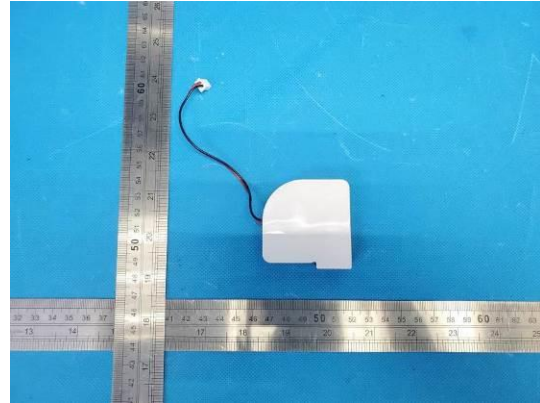
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### Photographs of EUT

Inner circuit top view



Inner circuit bottom view



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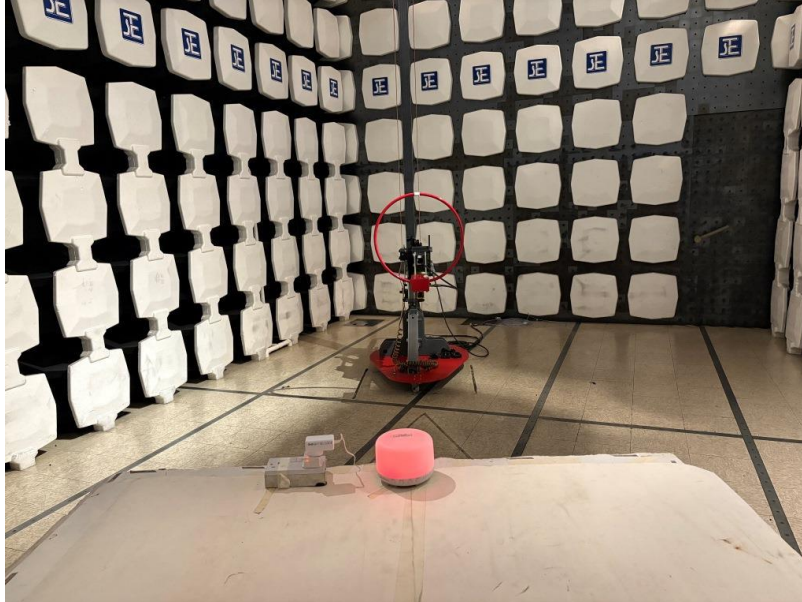
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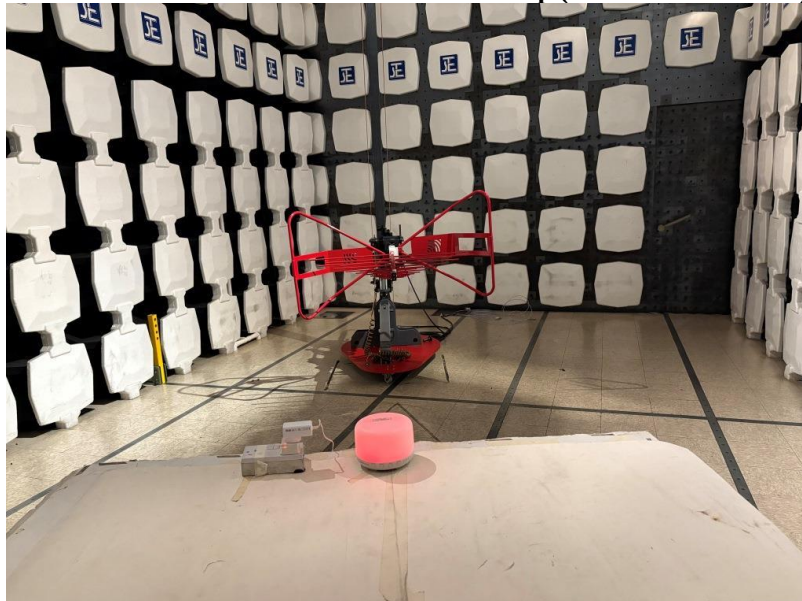
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### Photographs of EUT

**Measurement of Radiated Emission Test Set Up (9kHz to 30MHz)**



**Measurement of Radiated Emission Test Set Up (30MHz to 1000MHz)**



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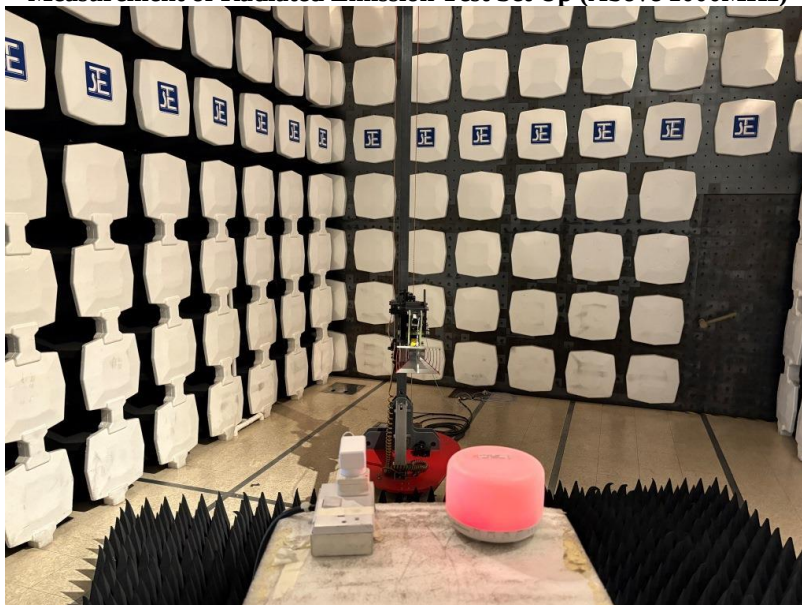
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### Photographs of EUT

**Measurement of Radiated Emission Test Set Up (Above 1000MHz)**



**Measurement of Conducted Emission Test Set Up**



**\*\*\*\*\* End of Test Report \*\*\*\*\***

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