



## SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

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Report Template Version: V06

Report Template Revision Date: 2026-01-30

# Test Report

**Report No.:** CQASZ20260500965E-01  
**Applicant:** DREO PTE. LTD.  
**Address of Applicant:** 112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902  
**Equipment Under Test (EUT):**  
**Product:** Smart Humidifier  
**Model No.:** DR-HHM021S, DWHM21S  
**Test Model No.:** DR-HHM021S  
**Brand Name:** DREO, DREO HOME  
**FCC ID:** 2BPBC-HHM021  
**Standards:** 47 CFR Part 15, Subpart C  
KDB558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10:2020  
**Date of Receipt:** 2026-05-12  
**Date of Test:** 2026-05-12 to 2026-05-25  
**Date of Issue:** 2026-06-16  
**Test Result:** PASS\*

\*In the configuration tested, the EUT complied with the standards specified above.

**Tested By:** Lewis Zhou  
( Lewis Zhou )

**Reviewed By:** Timo Lei  
( Timo Lei )

**Approved By:** Jack Ai  
( Jack Ai )



## 1 Version

### Revision History Of Report

| Report No.           | Version | Description    | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20260500965E-01 | Rev.01  | Initial report | 2026-06-16 |

## 2 Test Summary

| Test Item                                                         | Test Requirement                                    | Test method                                                        | Result |
|-------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|--------|
| Antenna Requirement                                               | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| AC Power Line Conducted Emission                                  | 47 CFR Part 15, Subpart C Section 15.207            | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| Conducted Peak Output Power                                       | 47 CFR Part 15, Subpart C Section 15.247 (b)(3)     | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| 6dB Occupied Bandwidth                                            | 47 CFR Part 15, Subpart C Section 15.247 (a)(2)     | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| Power Spectral Density                                            | 47 CFR Part 15, Subpart C Section 15.247 (e)        | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| Band-edge for RF Conducted Emissions                              | 47 CFR Part 15, Subpart C Section 15.247(d)         | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| RF Conducted Spurious Emissions                                   | 47 CFR Part 15, Subpart C Section 15.247(d)         | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| Radiated Spurious Emissions                                       | 47 CFR Part 15, Subpart C Section 15.205/15.209     | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.205/15.209     | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 | PASS   |

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## 4 General Information

### 4.1 Client Information

|                          |                                                                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | DREO PTE. LTD.                                                                                                                                                                                |
| Address of Applicant:    | 112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902                                                                                                                                     |
| Manufacturer:            | DREO PTE. LTD.                                                                                                                                                                                |
| Address of Manufacturer: | 112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902                                                                                                                                     |
| Factory:                 | Huizhou Huimo Technology Co.,Ltd.                                                                                                                                                             |
| Address of Factory:      | Office building Tower four, Tower Five, Tower Six of Shuangjie Industrial Co., Ltd.,Yinshan Industrial Zone, Beilian Village,Liangjing Town, Huiyang District,HUIZHOU CITY,Guangdong Province |
| Factory:                 | Quanzhou Vork Health Industry Co., Ltd.                                                                                                                                                       |
| Address of Factory:      | The 2nd Floor of Office Building, Voke High-end Intelligent Molding Technology Industrial Park, No. 5088 Binhu East Road, Taiwan Investment Zone, Quanzhou, Fujian Province, China            |
| Factory:                 | Comefresh(Xiamen) Electronic Co Ltd                                                                                                                                                           |
| Address of Factory:      | F2-4, No.35, Xiangyue Road, Xiang' an District, Xiamen, Fujian                                                                                                                                |

### 4.2 General Description of EUT

|                           |                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:             | Smart Humidifier                                                                                                                                             |
| Model No.:                | DR-HHM021S, DWHM21S                                                                                                                                          |
| Test Model No.:           | DR-HHM021S                                                                                                                                                   |
| Trade Mark:               | DREO, DREO HOME                                                                                                                                              |
| Software Version:         | V1.0                                                                                                                                                         |
| Hardware Version:         | IMB-019 V1.3                                                                                                                                                 |
| Operation Frequency:      | 2402MHz~2480MHz                                                                                                                                              |
| Bluetooth Version:        | V5.3                                                                                                                                                         |
| Modulation Type:          | GFSK                                                                                                                                                         |
| Transfer Rate:            | 1Mbps                                                                                                                                                        |
| Number of Channel:        | 40                                                                                                                                                           |
| Product Type:             | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location                                           |
| Test Software of EUT:     | EspRFTTestTool                                                                                                                                               |
| Antenna Type:             | FPC antenna                                                                                                                                                  |
| Antenna Gain:             | 5.19dBi                                                                                                                                                      |
| EUT Power Supply:         | AC 120V 60Hz                                                                                                                                                 |
| Simultaneous Transmission | <input type="checkbox"/> Simultaneous TX is supported and evaluated in this report.<br><input checked="" type="checkbox"/> Simultaneous TX is not supported. |

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

Note:

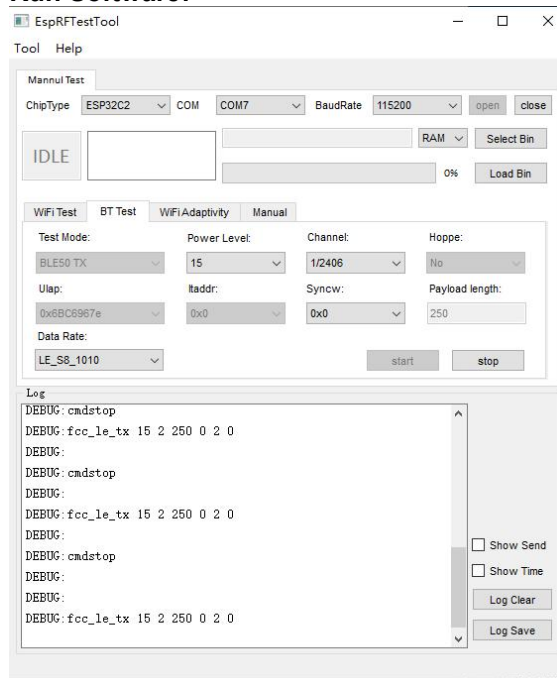
In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel                    | Frequency |
|----------------------------|-----------|
| The lowest channel (CH0)   | 2402MHz   |
| The middle channel (CH19)  | 2440MHz   |
| The highest channel (CH39) | 2480MHz   |

### 4.3 Additional Instructions

| EUT Test Software Settings:                                                                                                 |                                                                                                                                                                                        |                |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Mode:                                                                                                                       | <input checked="" type="checkbox"/> Special software is used.<br><input type="checkbox"/> Through engineering command into the engineering mode.<br>engineering command: *##3646633##* |                |
| EUT Power level:                                                                                                            | Class15 (Power level is built-in set parameters and cannot be changed and selected)                                                                                                    |                |
| Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. |                                                                                                                                                                                        |                |
| Mode                                                                                                                        | Channel                                                                                                                                                                                | Frequency(MHz) |
| GFSK                                                                                                                        | CH0                                                                                                                                                                                    | 2402           |
|                                                                                                                             | CH19                                                                                                                                                                                   | 2440           |
|                                                                                                                             | CH39                                                                                                                                                                                   | 2480           |

#### Run Software:



## 4.4 Test Environment

| Operating Environment: |                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Temperature:           | 24.5°C                                                                                                                      |
| Humidity:              | 59% RH                                                                                                                      |
| Atmospheric Pressure:  | 1009mbar                                                                                                                    |
| Test Mode:             | Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. |

## 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

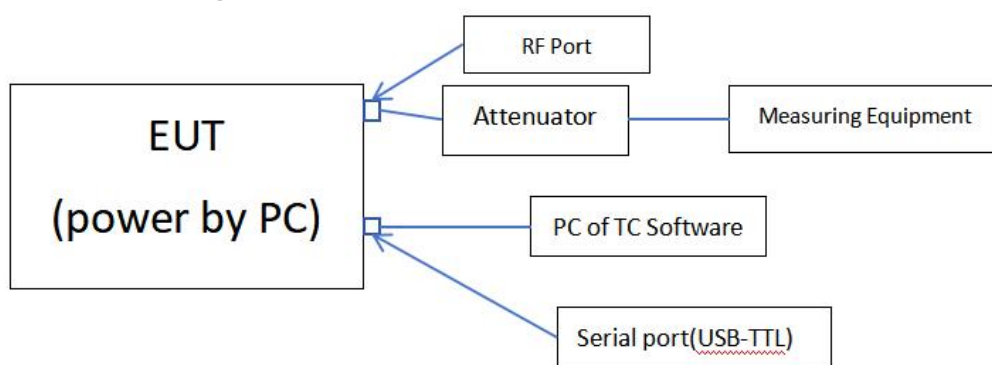
### 1) Support equipment

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|--------------|-----------|---------------|-------------|
| /           | /            | /         | /             | /           |

### 2) Cable

| Cable No. | Description | Manufacturer | Cable Type/Length | Supplied by |
|-----------|-------------|--------------|-------------------|-------------|
| /         | /           | /            | /                 | /           |

## 4.6 Test configuration



## 4.7 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

| No. | Item                               | Uncertainty        |
|-----|------------------------------------|--------------------|
| 1   | Radiated Emission (Below 1GHz)     | 5.12dB             |
| 2   | Radiated Emission (Above 1GHz)     | 4.60dB             |
| 3   | Conducted Disturbance (0.15~30MHz) | 3.34dB             |
| 4   | Radio Frequency                    | $3 \times 10^{-8}$ |
| 5   | Duty cycle                         | 0.6 %              |
| 6   | Occupied Bandwidth                 | 1.1%               |
| 7   | RF conducted power                 | 0.86dB             |
| 8   | RF power density                   | 0.74               |
| 9   | Conducted Spurious emissions       | 0.86dB             |
| 10  | Temperature test                   | 0.8℃               |
| 11  | Humidity test                      | 2.0%               |
| 12  | Supply voltages                    | 0.5 %              |
| 13  | Frequency Error                    | 5.5 Hz             |

## 4.8 Test Location

All tests were performed at:

**SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD**

102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community,  
Dalang Street, Longhua District, Shenzhen, Guangdong, People's Republic of China, 518000

## 4.9 Test Facility

- **A2LA (Certificate No. 4742.01)**

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen EMC Laboratory is accredited by the

American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

## 4.10 Deviation from Standards

None.

## 4.11 Other Information Requested by the Customer

None.

## 4.12 Equipment List

| Test Equipment             | Manufacturer | Model No.              | Instrument No. | Calibration Date | Calibration Due Date |
|----------------------------|--------------|------------------------|----------------|------------------|----------------------|
| EMI Test Receiver          | R&S          | ESR7                   | CQA-005        | 2025/9/1         | 2026/8/31            |
| Spectrum analyzer          | R&S          | FSU26                  | CQA-038        | 2025/9/1         | 2026/8/31            |
| Spectrum analyzer          | R&S          | FSU40                  | CQA-075        | 2025/9/1         | 2026/8/31            |
| Preamplifier               | MITEQ        | AFS4-00010300-18-10P-4 | CQA-035        | 2025/9/1         | 2026/8/31            |
| Preamplifier               | MITEQ        | AMF-6D-02001800-29-20P | CQA-036        | 2025/9/1         | 2026/8/31            |
| Preamplifier               | EMCI         | EMC184055SE            | CQA-089        | 2025/9/1         | 2026/8/31            |
| Loop antenna               | Schwarzbeck  | FMZB1516               | CQA-060        | 2023/9/8         | 2026/9/7             |
| Bilog Antenna              | R&S          | HL562                  | CQA-011        | 2023/11/01       | 2026/10/31           |
| Horn Antenna               | R&S          | HF906                  | CQA-012        | 2023/11/01       | 2026/10/31           |
| Horn Antenna               | Schwarzbeck  | BBHA 9170              | CQA-088        | 2023/9/7         | 2026/9/6             |
| Coaxial Cable (Above 1GHz) | CQA          | N/A                    | C007           | 2025/9/1         | 2026/8/31            |
| Coaxial Cable (Below 1GHz) | CQA          | N/A                    | C013           | 2025/9/1         | 2026/8/31            |
| Antenna Connector          | CQA          | RFC-01                 | CQA-080        | 2025/9/1         | 2026/8/31            |
| RF cable(9KHz~40GHz)       | CQA          | RF-01                  | CQA-079        | 2025/9/1         | 2026/8/31            |
| Power meter                | R&S          | NRVD                   | CQA-029        | 2025/9/1         | 2026/8/31            |
| Power divider              | MIDWEST      | PWD-2533-02-SMA-79     | CQA-067        | 2025/9/1         | 2026/8/31            |
| EMI Test Receiver          | R&S          | ESR7                   | CQA-005        | 2025/9/1         | 2026/8/31            |
| LISN                       | R&S          | ENV216                 | CQA-003        | 2025/9/1         | 2026/8/31            |
| Coaxial cable              | CQA          | N/A                    | CQA-C009       | 2025/9/1         | 2026/8/31            |
| DC power                   | KEYSIGHT     | E3631A                 | CQA-028        | 2025/9/1         | 2026/8/31            |

### Test software:

|                                   | Manufacturer | Software brand | Software version |
|-----------------------------------|--------------|----------------|------------------|
| Radiated Emissions test software  | Tonscend     | JS1120-3       | Version:8        |
| Conducted Emissions test software | Audix        | e3             | Version:9        |
| RF Conducted test software        | Audix        | e3             | V3.5.39          |

### Note:

The temporary antenna connector is soldered on the pcb board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

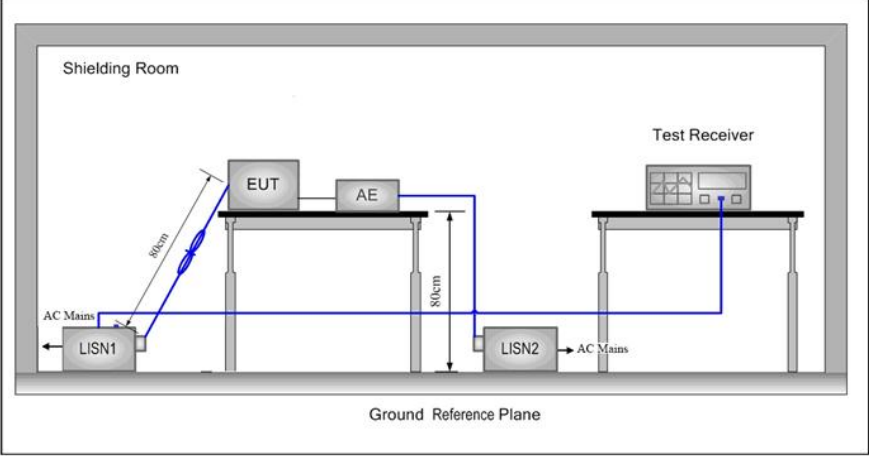
## 5 Test results and Measurement Data

### 5.1 Antenna Requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 47 CFR Part 15C Section 15.203 /247(c)                                              |
| <p>15.203 requirement:<br/> 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, 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.</p> <p>15.247(b) (4) requirement:<br/> The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> |                                                                                     |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <p>The antenna is FPC antenna.<br/> The connection/connection type between the antenna to the EUT's antenna port is: unique coupling<br/> This is either permanently attachment or a unique coupling that satisfies the requirement.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |

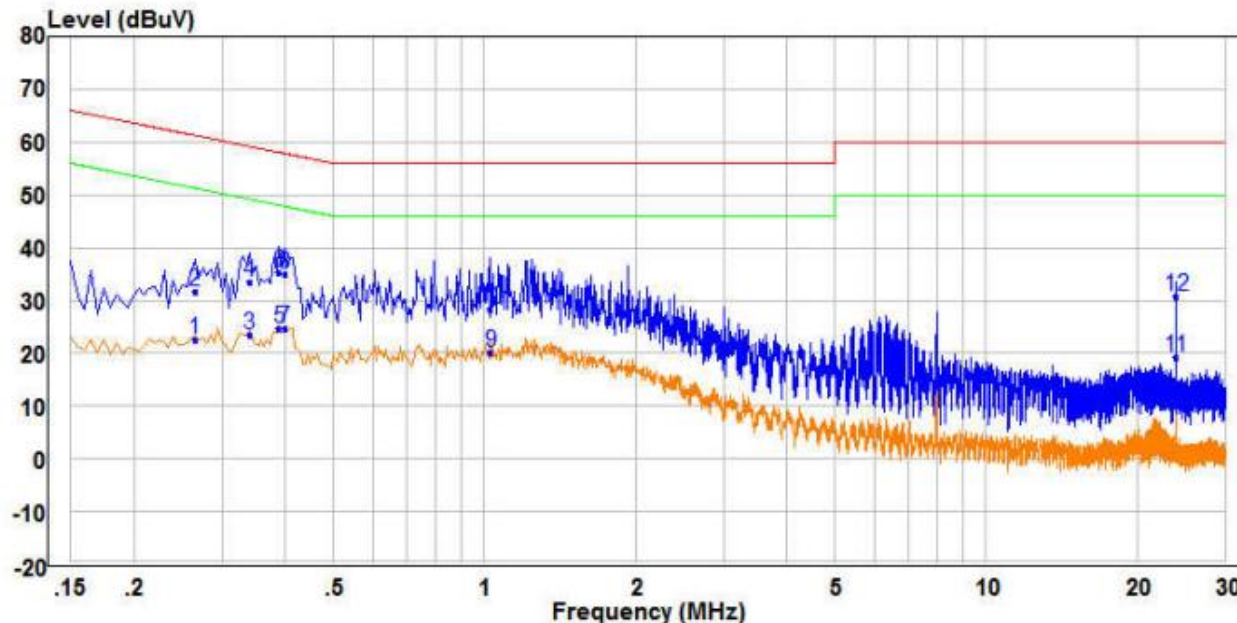
## 5.2 Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | 47 CFR Part 15C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |           |
| Test Method:                                     | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Test Frequency Range:                            | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 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 Procedure:                                  | <ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2020 on conducted measurement.</li> </ol> |              |           |

|               |                                                                                       |
|---------------|---------------------------------------------------------------------------------------|
| Test Setup:   |     |
| Test Mode:    | Through Pre-scan, find the transmitting mode at the lowest channel is the worst case. |
| Test Voltage: | AC 120V/60Hz                                                                          |
| Test Results: | Pass                                                                                  |

## Measurement Data

Live line:

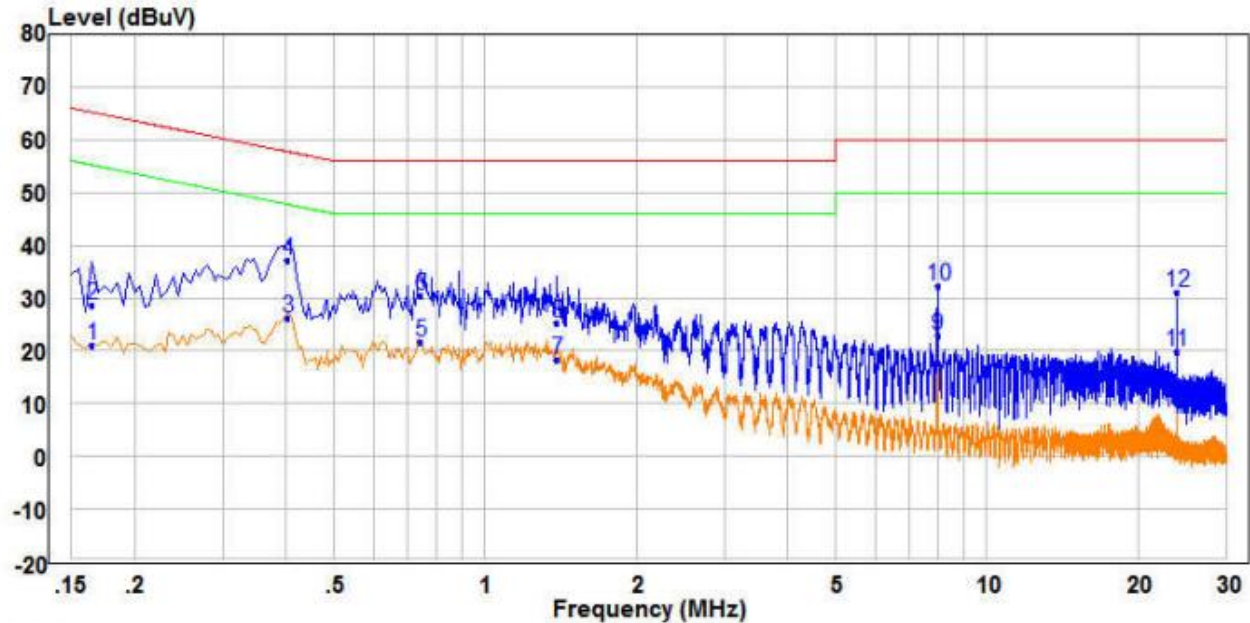


|      | Freq   | Read Level | Factor | Level | Limit Line | Over Limit | Remark  | Pol/Phase |
|------|--------|------------|--------|-------|------------|------------|---------|-----------|
|      | MHz    | dBuV       | dB     | dBuV  | dBuV       | dB         |         |           |
| 1    | 0.265  | 13.16      | 9.53   | 22.69 | 51.27      | -28.58     | Average | Line      |
| 2    | 0.265  | 22.08      | 9.53   | 31.61 | 61.27      | -29.66     | QP      | Line      |
| 3    | 0.340  | 13.88      | 9.54   | 23.42 | 49.20      | -25.78     | Average | Line      |
| 4    | 0.340  | 23.92      | 9.54   | 33.46 | 59.20      | -25.74     | QP      | Line      |
| 5    | 0.390  | 14.98      | 9.60   | 24.58 | 48.06      | -23.48     | Average | Line      |
| 6 PP | 0.390  | 25.78      | 9.60   | 35.38 | 58.06      | -22.68     | QP      | Line      |
| 7 AV | 0.400  | 15.00      | 9.61   | 24.61 | 47.85      | -23.24     | Average | Line      |
| 8    | 0.400  | 25.48      | 9.61   | 35.09 | 57.85      | -22.76     | QP      | Line      |
| 9    | 1.030  | 10.26      | 9.78   | 20.04 | 46.00      | -25.96     | Average | Line      |
| 10   | 1.030  | 18.47      | 9.78   | 28.25 | 56.00      | -27.75     | QP      | Line      |
| 11   | 23.925 | 9.08       | 10.00  | 19.08 | 50.00      | -30.92     | Average | Line      |
| 12   | 23.925 | 20.78      | 10.00  | 30.78 | 60.00      | -29.22     | QP      | Line      |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

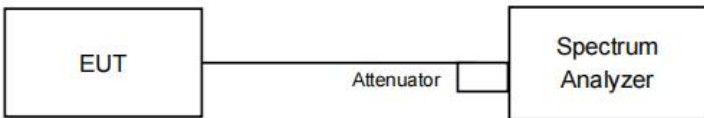


|    | Freq   | Read Level | Factor | Level | Limit Line | Over Limit | Remark  | Pol/Phase |
|----|--------|------------|--------|-------|------------|------------|---------|-----------|
|    | MHz    | dBuV       | dB     | dBuV  | dBuV       | dB         |         |           |
| 1  | 0.165  | 11.47      | 9.67   | 21.14 | 55.21      | -34.07     | Average | Neutral   |
| 2  | 0.165  | 19.01      | 9.67   | 28.68 | 65.21      | -36.53     | QP      | Neutral   |
| 3  | 0.405  | 16.64      | 9.61   | 26.25 | 47.75      | -21.50     | Average | Neutral   |
| 4  | 0.405  | 27.45      | 9.61   | 37.06 | 57.75      | -20.69     | QP      | Neutral   |
| 5  | 0.745  | 11.85      | 9.87   | 21.72 | 46.00      | -24.28     | Average | Neutral   |
| 6  | 0.745  | 20.53      | 9.87   | 30.40 | 56.00      | -25.60     | QP      | Neutral   |
| 7  | 1.390  | 8.60       | 9.72   | 18.32 | 46.00      | -27.68     | Average | Neutral   |
| 8  | 1.390  | 15.51      | 9.72   | 25.23 | 56.00      | -30.77     | QP      | Neutral   |
| 9  | 7.980  | 12.92      | 9.83   | 22.75 | 50.00      | -27.25     | Average | Neutral   |
| 10 | 7.980  | 22.39      | 9.83   | 32.22 | 60.00      | -27.78     | QP      | Neutral   |
| 11 | 23.935 | 9.81       | 10.00  | 19.81 | 50.00      | -30.19     | Average | Neutral   |
| 12 | 23.935 | 21.17      | 10.00  | 31.17 | 60.00      | -28.83     | QP      | Neutral   |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

### 5.3 Conducted Peak Output Power

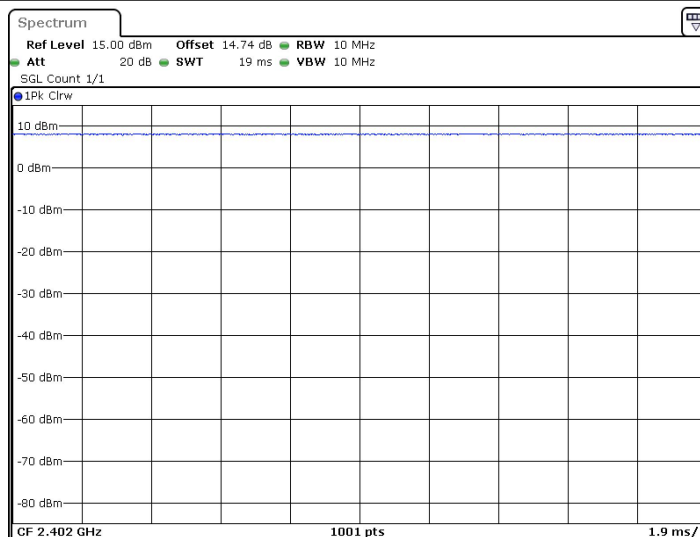
|                   |                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3)                                                                                                           |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024                                                                              |
| Test Setup:       |  <p><i>Remark: Offset=Cable loss+ attenuation factor.</i></p> |
| Limit:            | 30dBm                                                                                                                                           |
| Test Mode:        | Transmitting with GFSK modulation.                                                                                                              |
| Test Results:     | Pass                                                                                                                                            |

| Operated Mode for Worst Duty Cycle: |                          |                            |                  |                               |
|-------------------------------------|--------------------------|----------------------------|------------------|-------------------------------|
| Test Mode                           | On time<br>[Ton]<br>(ms) | Period<br>[Ttotal]<br>(ms) | Duty<br>Cycle(%) | Average correction factor(dB) |
| GFSK 1Mbps                          | /                        | /                          | 100              | /                             |

**Remark:**

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor =  $10 * \log(1/ \text{Duty cycle})$ ;

Test Graph\_GFSK 1Mbps Duty Cycle:

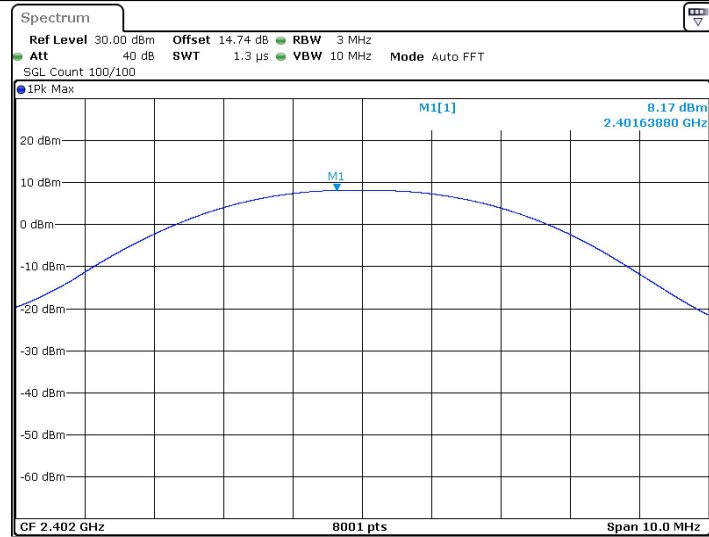


Date: 20 MAY 2026 12:13:21

**Measurement Data**

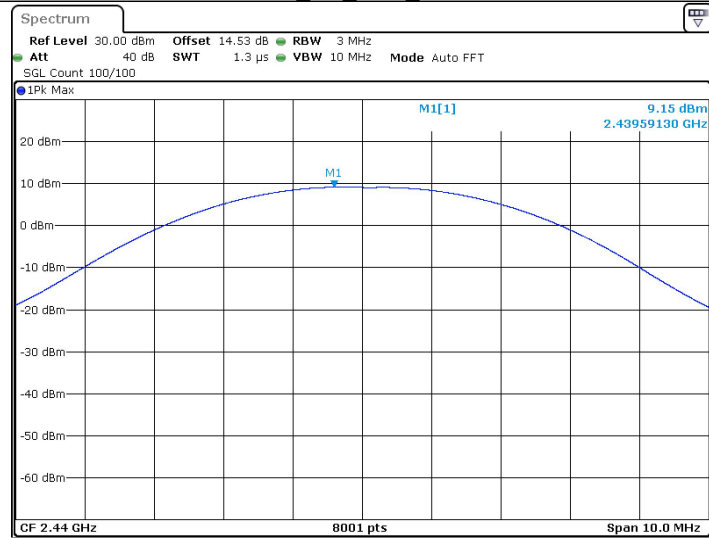
| GFSK mode (1Mbps) |                         |             |        |
|-------------------|-------------------------|-------------|--------|
| Test channel      | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest            | 8.17                    | 30.00       | Pass   |
| Middle            | 9.15                    | 30.00       | Pass   |
| Highest           | 6.50                    | 30.00       | Pass   |

BLE\_1M\_Ant1\_2402



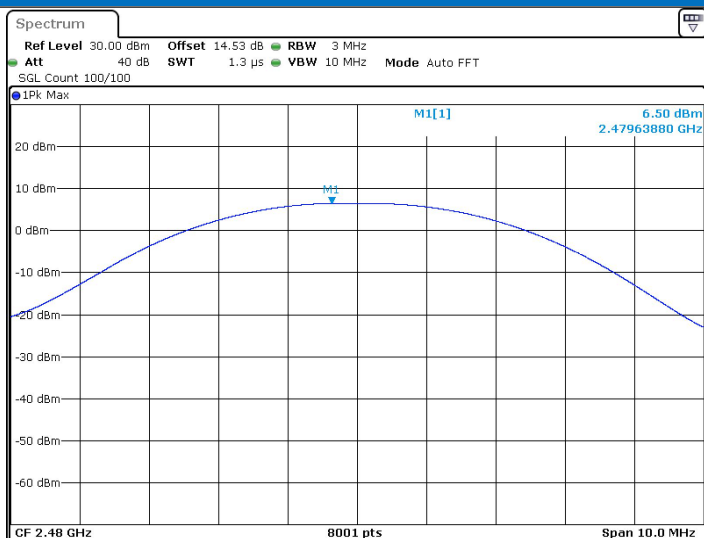
Date: 20.MAY.2026 12:29:55

BLE\_1M\_Ant1\_2440



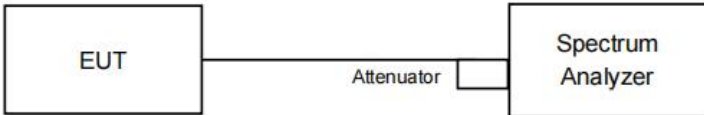
Date: 20.MAY.2026 12:31:50

BLE\_1M\_Ant1\_2480



Date: 20.MAY.2026 12:33:56

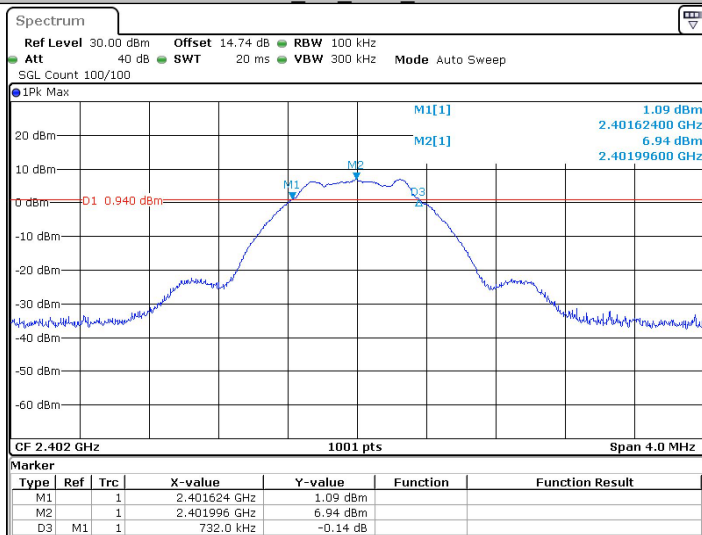
## 5.4 6dB Occupy Bandwidth

|                   |                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2)                                                                                                    |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024                                                                       |
| Test Setup:       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p> |
| Limit:            | ≥ 500 kHz                                                                                                                                |
| Instruments Used: | Refer to section 4.11 for details.                                                                                                       |
| Test Results:     | Pass                                                                                                                                     |

### Measurement Data

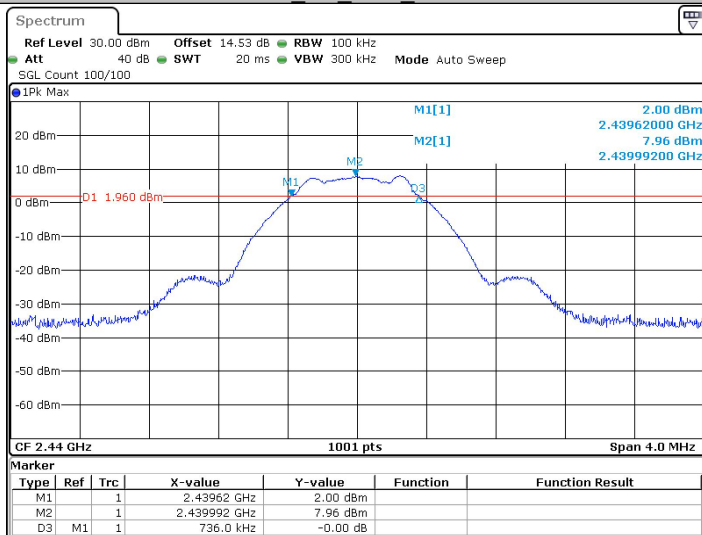
| GFSK mode (1Mbps) |                            |             |        |
|-------------------|----------------------------|-------------|--------|
| Test channel      | 6dB Occupy Bandwidth (MHz) | Limit (kHz) | Result |
| Lowest            | 0.73                       | ≥500        | Pass   |
| Middle            | 0.74                       | ≥500        | Pass   |
| Highest           | 0.74                       | ≥500        | Pass   |

BLE\_1M\_Ant1\_2402



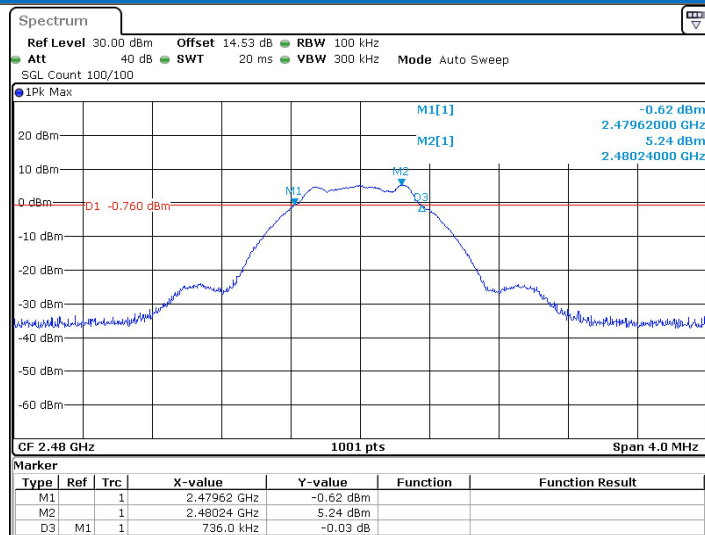
Date: 20.MAY.2026 12:29:45

BLE\_1M\_Ant1\_2440



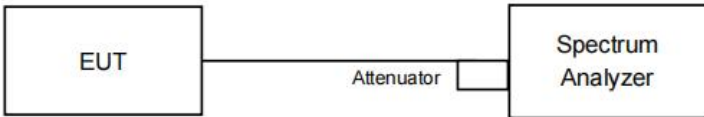
Date: 20.MAY.2026 12:31:40

BLE\_1M\_Ant1\_2480



Date: 20.MAY.2026 12:33:45

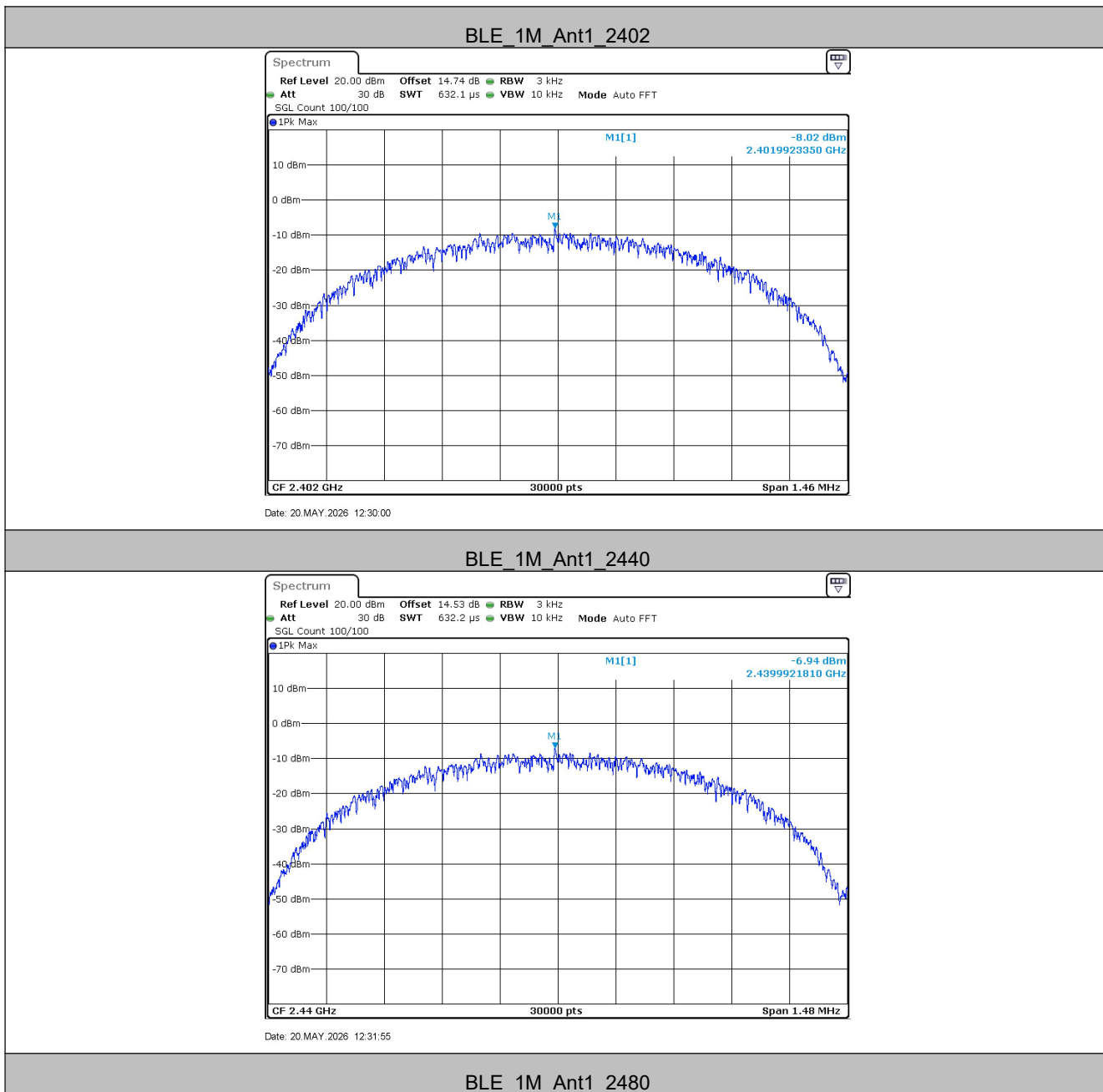
## 5.5 Power Spectral Density

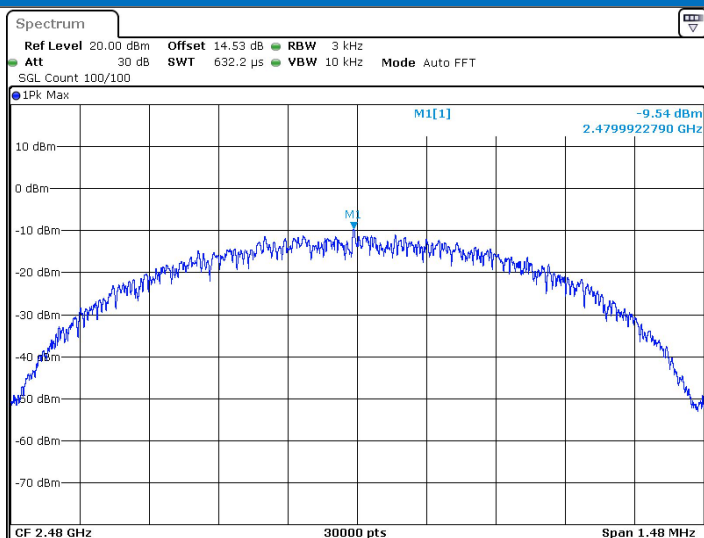
|                   |                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (e)                                                                                                       |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024                                                                       |
| Test Setup:       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p> |
| Limit:            | ≤8.00dBm/3kHz                                                                                                                            |
| Test Mode:        | Transmitting with GFSK modulation.                                                                                                       |
| Test Results:     | Pass                                                                                                                                     |

### Measurement Data

| GFSK mode (1Mbps) |                                   |                  |        |
|-------------------|-----------------------------------|------------------|--------|
| Test channel      | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| Lowest            | -8.02                             | ≤8.00            | Pass   |
| Middle            | -6.94                             | ≤8.00            | Pass   |
| Highest           | -9.54                             | ≤8.00            | Pass   |

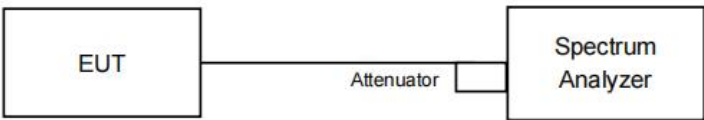
Test plot as follows:





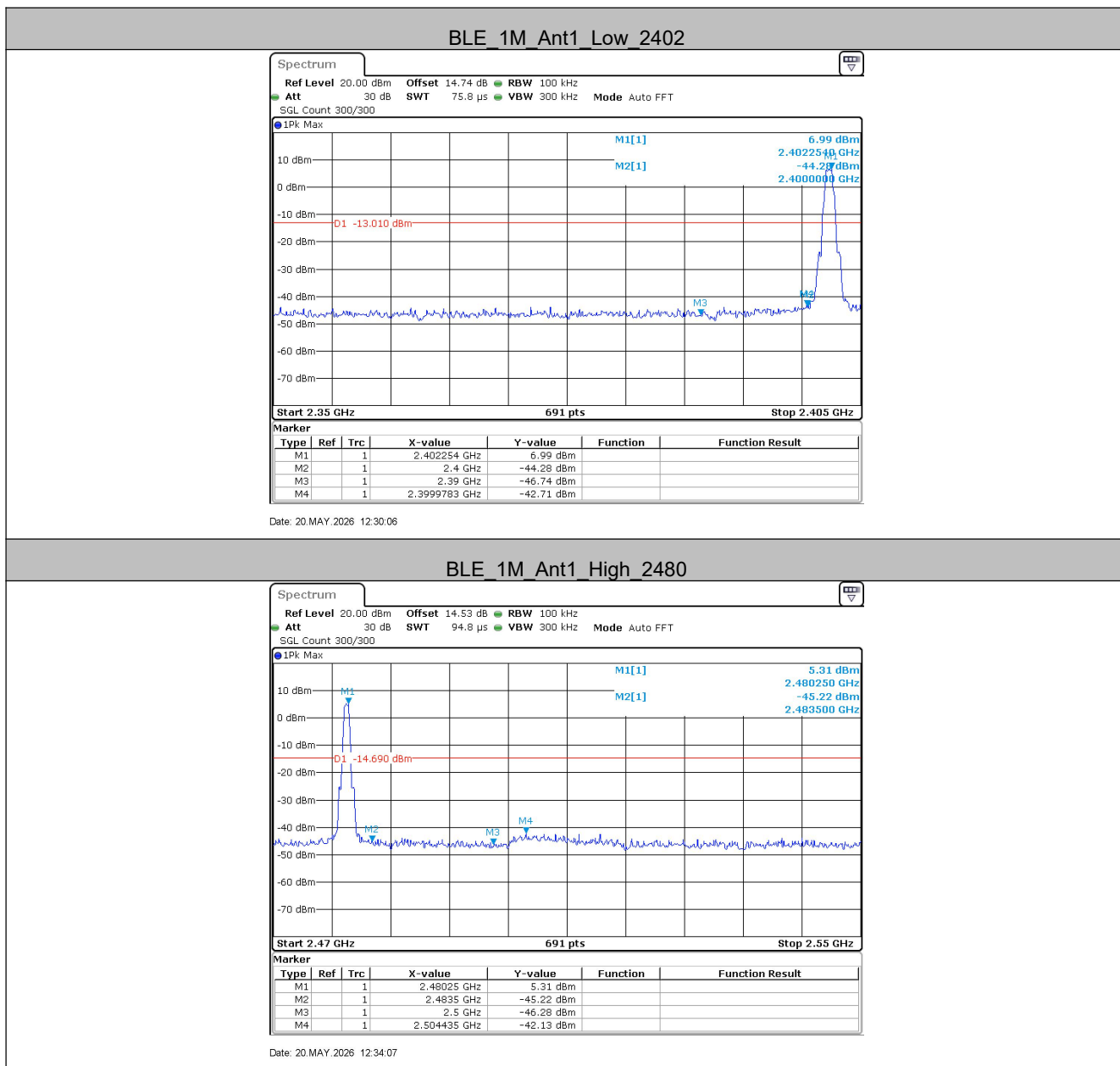
Date: 20.MAY.2026 12:34:01

## 5.6 Band-edge for RF Conducted Emissions

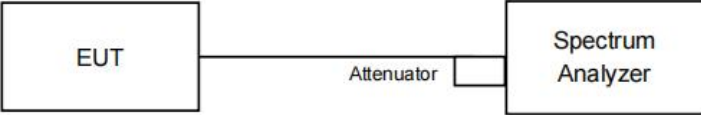
|                   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024                                                                                                                                                                                                                                                                                                                      |
| Test Setup:       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p>                                                                                                                                                                                                                                                |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Test Mode:        | Transmitting with GFSK modulation.                                                                                                                                                                                                                                                                                                                                                      |
| Test Results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                    |

| TestMode | ChName | Freq(MHz) | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|--------|-----------|---------------|-------------|------------|---------|
| BLE_1M   | Low    | 2402      | 6.99          | -42.71      | ≤-13.01    | PASS    |
|          | High   | 2480      | 5.31          | -42.13      | ≤-14.69    | PASS    |

Test plot as follows:



## 5.7 Spurious RF Conducted Emissions

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:      | ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024                                                                                                                                                                                                                                                                                                                      |
| Test Setup:       |  <p><i>Remark: Offset=Cable loss+ attenuation factor.</i></p>                                                                                                                                                                                                                                         |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Test Mode:        | Transmitting with GFSK modulation.                                                                                                                                                                                                                                                                                                                                                      |
| Test Results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                    |