

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**EUT Description:** AI Hub  
**Applicant:** FLH Co., LTD.  
9F, No.35, Ln.11, Guangfu N. Rd., Songshan Dist., Taipei  
City 105410, Taiwan  
**Manufacturer:** HSUN WEALTH TECHNOLOGY CO., LTD.  
11F., No. 49, Sec. 1, Qingfeng Rd., Qingpu Vil., Zhongli Dist.,  
Taoyuan City 320016, Taiwan (R.O.C.)  
**Brand Name:** Ferqo  
**Model No.** MG-1  
**Family Model No.** DSC-1AA53  
**Model Difference:** Refer to Section 1.3  
**Report Number:** TERF2603000844E2  
**FCC ID** 2BXB8MG1  
**Date of EUT Received:** February 25, 2026  
**Date of Test:** April 13, 2026 ~ May 11, 2026  
**Issue Date:** May 22, 2026

Approved By \_\_\_\_\_

**Aken Huang**

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description | Issue Date   | Revised By | Remark |
|------------------|----------|-------------|--------------|------------|--------|
| TERF2603000844E2 | 00       | Original    | May 22, 2026 | Mini Yeh   |        |
|                  |          |             |              |            |        |
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|                  |          |             |              |            |        |
|                  |          |             |              |            |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.  
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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|     |                                       |    |
|-----|---------------------------------------|----|
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## 1 GENERAL INFORMATION

### 1.1 Equipment Under Test (EUT)

|                                 |                      |
|---------------------------------|----------------------|
| EUT Description                 | AI Hub               |
| Brand Name                      | Ferqo                |
| Model No.                       | MG-1                 |
| Family Model No.                | DSC-1AA53            |
| Model Difference                | Refer to Section 1.3 |
| Power Supply                    | 5 Vdc                |
| Test Software<br>(Name/Version) | Tera Term/v4.84      |

### 1.2 RF Specification

|                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|
| Radio Technology | BLE                                                                              |
| Frequency Range  | 2402 ~ 2480MHz                                                                   |
| Channel number   | 40 channels                                                                      |
| Modulation type  | GFSK                                                                             |
| Transmit Power   | BLE 1M: 7.19 dBm<br>BLE 2M: 7.27 dBm<br>BLE 125k: 4.48 dBm<br>BLE 500k: 4.15 dBm |

### 1.3 Model Difference

| Model No. | Brand Name | Marketing Name    | Sales Country |
|-----------|------------|-------------------|---------------|
| MG-1      | Ferqo      | Ferqo AI Hub      | Taiwan        |
| DSC-1AA53 | Daikin     | AI NILM Smart Hub | Singapore     |

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## 1.4 Antenna Designation

| Ant. Type | Brand    | Model No.      | Freq. (MHz) | Peak Gain(dBi) |
|-----------|----------|----------------|-------------|----------------|
| PIFA      | DESHIQIN | 2.4G/5.8G-WIFI | 2400~2483.5 | -2.97          |

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

## 1.5 Operating Frequencies

| 2400~2483.5 MHz |          |      |          |      |          |      |          |
|-----------------|----------|------|----------|------|----------|------|----------|
| Item            | Freq.    | Item | Freq.    | Item | Freq.    | Item | Freq.    |
| 0               | 2402 MHz | 1    | 2404 MHz | 2    | 2406 MHz | 3    | 2408 MHz |
| 4               | 2410 MHz | 5    | 2412 MHz | 6    | 2414 MHz | 7    | 2416 MHz |
| 8               | 2418 MHz | 9    | 2420 MHz | 10   | 2422 MHz | 11   | 2424 MHz |
| 12              | 2426 MHz | 13   | 2428 MHz | 14   | 2430 MHz | 15   | 2432 MHz |
| 16              | 2434 MHz | 17   | 2436 MHz | 18   | 2438 MHz | 19   | 2440 MHz |
| 20              | 2442 MHz | 21   | 2444 MHz | 22   | 2446 MHz | 23   | 2448 MHz |
| 24              | 2450 MHz | 25   | 2452 MHz | 26   | 2454 MHz | 27   | 2456 MHz |
| 28              | 2458 MHz | 29   | 2460 MHz | 30   | 2462 MHz | 31   | 2464 MHz |
| 32              | 2466 MHz | 33   | 2468 MHz | 34   | 2470 MHz | 35   | 2472 MHz |
| 36              | 2474 MHz | 37   | 2476 MHz | 38   | 2478 MHz | 39   | 2480 MHz |

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## 1.6 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among modes below.

| MODE              | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|-------------------|-------------------|----------------|------------|------------------|
| CONDUCTED TEST    |                   |                |            |                  |
| Bluetooth LE_1M   | 0 to 39           | 0,20,39        | GFSK       | 1                |
| Bluetooth LE_2M   | 0 to 39           | 0,20,39        | GFSK       | 2                |
| Bluetooth LE_125k | 0 to 39           | 0,20,39        | GFSK       | 0.125            |
| Bluetooth LE_500k | 0 to 39           | 0,20,39        | GFSK       | 0.5              |

| MODE                                                                                                                                                                                                   | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|------------|------------------|
| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)                                                                                                                                                          |                   |                |            |                  |
| Bluetooth LE                                                                                                                                                                                           | 0 to 39           | 20             | GFSK       | 2                |
| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)                                                                                                                                                          |                   |                |            |                  |
| Bluetooth LE                                                                                                                                                                                           | 0 to 39           | 0,20,39        | GFSK       | 2                |
| Bluetooth LE                                                                                                                                                                                           | 0 to 39           | 0,20,39        | GFSK       | 0.125            |
| Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported. |                   |                |            |                  |

| CONDUCTION TEST |                 |            |                  |
|-----------------|-----------------|------------|------------------|
| MODE            | Power (Voltage) | MODULATION | DATA RATE (Mbps) |
| Bluetooth LE    | 120             | GFSK       | 1                |

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## 2 SUMMARY OF TEST RESULTS

| FCC Rules                        | Description Of Test              | Result    |
|----------------------------------|----------------------------------|-----------|
| §15.207(a)                       | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3)                   | Peak Output Power                | Compliant |
| §15.247(a)(2)                    | Emission Bandwidth               | Compliant |
| §15.205<br>§15.209<br>§15.247(d) | Out of Band Emission             | Compliant |
| §15.205<br>§15.209<br>§15.247(d) | Unwanted Emission                | Compliant |
| §15.247(e)                       | Power Spectral Density           | Compliant |
| §15.203                          | Antenna Requirement              | Compliant |

### 2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart C §15.247
2. ANSI C63.10:2020
3. FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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## 2.2 Measurement Uncertainty

| Test Items                       | Uncertainty |
|----------------------------------|-------------|
| AC Power Line Conducted Emission | +/- 1.61 dB |
| Output Power measurement         | +/- 0.97 dB |
| Emission Bandwidth               | +/- 1.38 Hz |
| Conducted emission measurement   | +/- 0.77 dB |
| Peak Power Density               | +/- 0.61 dB |
| Temperature                      | +/- 0.60 °C |
| Humidity                         | +/- 3.00 %  |
| DC / AC Power Source             | +/- 1.00 %  |

| Radiated Spurious Emission Measurement Uncertainty |             |                 |
|----------------------------------------------------|-------------|-----------------|
| Polarization: Vertical                             | +/- 1.89 dB | 9kHz - 30MHz    |
|                                                    | +/- 4.10 dB | 30MHz - 1000MHz |
|                                                    | +/- 3.41 dB | 1GHz - 18GHz    |
|                                                    | +/- 3.89 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- 1.89 dB | 9kHz - 30MHz    |
|                                                    | +/- 4.10 dB | 30MHz - 1000MHz |
|                                                    | +/- 3.41 dB | 1GHz - 18GHz    |
|                                                    | +/- 3.89 dB | 18GHz - 40GHz   |
| Radiated Spurious Emission                         | +/- 2.00 dB | 33GHz - 50GHz   |
|                                                    | +/- 1.59 dB | 50GHz - 60GHz   |
|                                                    | +/- 1.71 dB | 60GHz - 90GHz   |
|                                                    | +/- 1.64 dB | 90GHz - 140GHz  |
|                                                    | +/- 3.84 dB | 140GHz - 220GHz |

### Note

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 2.3 Test Facility

| Laboratory                                            | Test Site Address                                                                                       | Test Site Name                                                                                                                                     | FCC Designation number / Registration Number | IC CAB identifier / Company Number |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.134, Wu Kung Road,<br>New Taipei Industrial Park,<br>Wuku District, New Taipei<br>City, Taiwan 24803 | SAC 1 / SAC 2 / SAC 3<br>Conduction 1 / Conducted 1<br>Conducted 2 / Conducted 3<br>Conducted 4 / Conducted 5<br>Conducted 6 / FAC 1               | TW0027 /<br>891563                           | TW3702 /<br>4620A                  |
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.2, Keji 1st Rd, Guishan<br>District, Taoyuan City,<br>Taiwan 333                                     | SAC C / SAC D / SAC G<br>Conduction C/ Conducted A<br>Conducted B / Conducted C<br>Conducted D / Conducted E<br>Conducted F / Conducted G<br>FAC A | TW0028 /<br>200037                           | TW3702 /<br>4620E                  |

| Measurement | Test Site Name | Test Engineer | EUT S/N | Test Environment        | Test Date                  |
|-------------|----------------|---------------|---------|-------------------------|----------------------------|
| Conducted   | Conducted E    | Henry Chiang  | N/A     | 23.1~22.8°C /<br>65~61% | 2026/04/20 ~<br>2026/05/11 |
| Radiated    | SAC C          | Wilson Wang   | NA      | 22.2~23.9°C /<br>58~61% | 2026/05/04 ~<br>2026/05/06 |
| Conduction  | Conduction C   | Wilson Wang   | NA      | 23.7°C /<br>58%         | 2026/05/07 ~<br>2026/05/07 |

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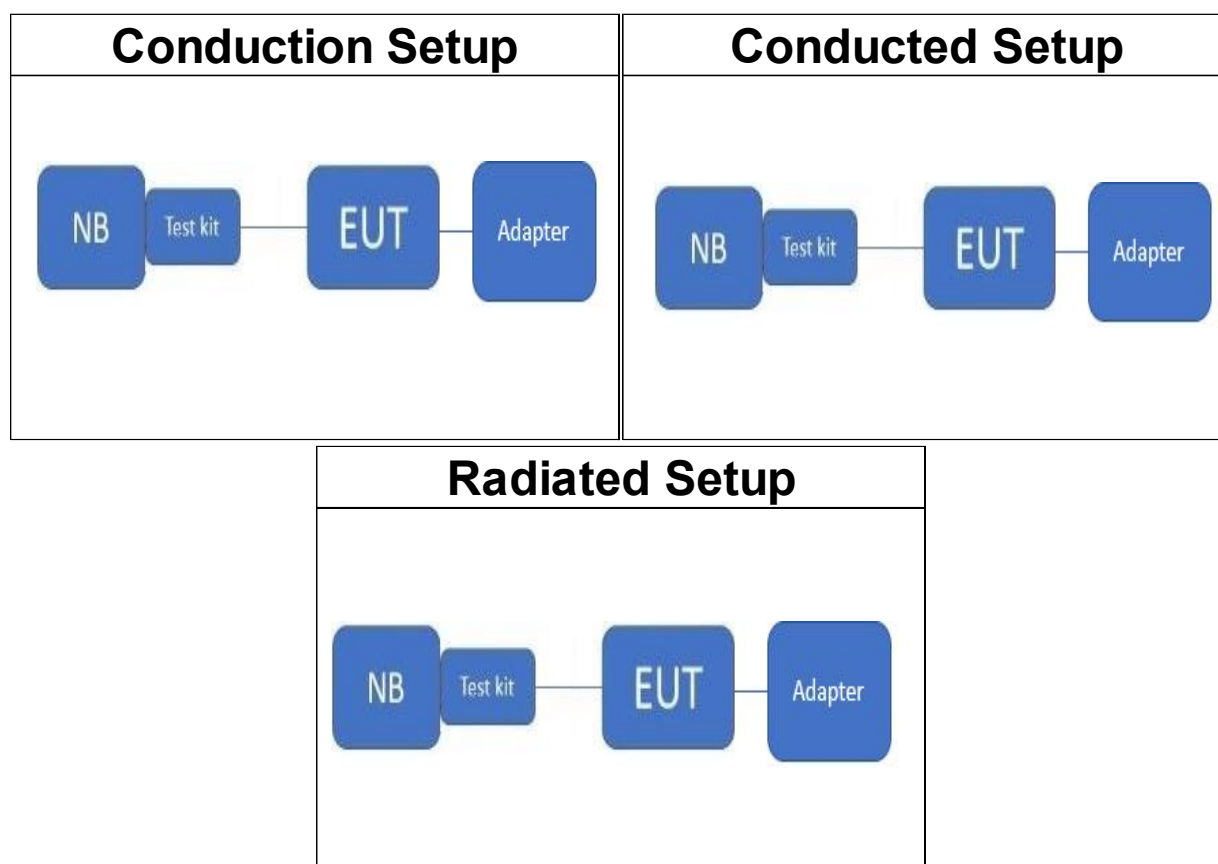
### 3 CONTROL UNIT(S) AND PERIPHERAL(S)

#### 3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### 3.2 Diagrams



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### 3.3 List

#### 3.3.1 Conduction Setup

| AC Power-Line Conducted Emission Test Site: Conduction C |                                               |              |               |                           |                          |
|----------------------------------------------------------|-----------------------------------------------|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                                           | MFR                                           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Notebook                                                 | Lenovo                                        | T470         | P0001293      | N/A                       | N/A                      |
| Adapter                                                  | Shenzhen<br>Merryking<br>Electronics Co., Ltd | GF050020J    | N/A           | N/A                       | N/A                      |
| TestKit                                                  | N/A                                           | N/A          | N/A           | N/A                       | N/A                      |

#### 3.3.2 Conducted Setup

| Conducted Emission Test Site: Conducted E |                                               |              |               |                           |                          |
|-------------------------------------------|-----------------------------------------------|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR                                           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Adapter                                   | Shenzhen<br>Merryking<br>Electronics Co., Ltd | GF050020J    | N/A           | N/A                       | N/A                      |
| Test Kit                                  | N/A                                           | N/A          | N/A           | N/A                       | N/A                      |
| Notebook                                  | Lenove                                        | T490         | P0002537      | N/A                       | N/A                      |

#### 3.3.3 Radiated Setup

| Radiated Emission Test Site: SAC C |                                               |              |               |                           |                          |
|------------------------------------|-----------------------------------------------|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                     | MFR                                           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Notebook                           | Lenovo                                        | T470         | P0001293      | N/A                       | N/A                      |
| Adapter                            | Shenzhen<br>Merryking<br>Electronics Co., Ltd | GF050020J    | N/A           | N/A                       | N/A                      |
| TestKit                            | N/A                                           | N/A          | N/A           | N/A                       | N/A                      |

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## 4 TEST INSTRUMENT

### 4.1 Conducted Measurement

| Conducted Emission Test Site: Conducted E |            |                     |               |                           |                          |
|-------------------------------------------|------------|---------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR        | MODEL NUMBER        | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Attenuator                                | Marvelous  | MVE2213-10          | RF05          | 11/13/2025                | 11/12/2026               |
| DC Block                                  | PASTERNAK  | PE8210              | RF34          | 11/13/2025                | 11/12/2026               |
| Power Meter                               | Anritsu    | ML2496A             | 1326001       | 07/29/2025                | 07/28/2026               |
| Power Sensor                              | Anritsu    | MA2411B             | 1315048       | 07/29/2025                | 07/28/2026               |
| Power Sensor                              | Anritsu    | MA2411B             | 1315049       | 07/29/2025                | 07/28/2026               |
| Spectrum Analyzer                         | KEYSIGHT   | N9010A              | MY54510568    | 10/17/2025                | 10/16/2026               |
| Test Software                             | SGS Taiwan | Radio Test Software | Ver.21        | N.C.R                     | N.C.R                    |

### 4.2 Radiated Measurement

| Radiated Emission Test Site: SAC C |                   |                                                             |                              |                           |                          |
|------------------------------------|-------------------|-------------------------------------------------------------|------------------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                     | MFR               | MODEL NUMBER                                                | SERIAL NUMBER                | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| 3m Site NSA                        | SGS               | 966 chamber C                                               | N/A                          | 03/02/2026                | 03/01/2027               |
| Active Loop Antenna                | COM-POWER         | AL-130R                                                     | 10160105                     | 12/16/2025                | 12/15/2026               |
| Attenuator                         | Woken             | WATT-218FS-10                                               | RF17                         | 11/13/2025                | 11/12/2026               |
| Broadband Antenna                  | SCHWARZBECK       | VULB 9168                                                   | 9168-300                     | 11/14/2025                | 11/13/2026               |
| Coaxial Cable                      | EMCI+Huber Suhner | RG<br>214/U+EMC104-SM-SM-<br>6000+EMC105-SM-SM-<br>12000+15 | W13.01+150813+2<br>310002+15 | 11/13/2025                | 11/12/2026               |
| Spectrum Analyzer                  | KEYSIGHT          | N9010B                                                      | MY60240506                   | 06/23/2025                | 06/22/2026               |
| Horn Antenna                       | RF SPIN           | DRH0844                                                     | KV2E12A0844                  | 01/23/2026                | 01/22/2027               |
| Pre-Amplifier                      | EMC Instruments   | EMC118A45SE                                                 | 980789                       | 11/13/2025                | 11/12/2026               |
| Pre-Amplifier                      | EMC Instruments   | EMC184045SEE                                                | 980881                       | 11/13/2025                | 11/12/2026               |
| Pre-Amplifier                      | EMC Instruments   | EMC330                                                      | 980091                       | 11/13/2025                | 11/12/2026               |
| Spectrum Analyzer                  | KEYSIGHT          | N9010B                                                      | MY63440390                   | 02/02/2026                | 02/01/2027               |
| Test Software                      | audix             | e3                                                          | E3 20923 SGS Ver.9<br>(C)    | N.C.R                     | N.C.R                    |

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### 4.3 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction C |                                |               |                             |                           |                          |
|----------------------------------------------------------|--------------------------------|---------------|-----------------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                                           | MFR                            | MODEL NUMBER  | SERIAL NUMBER               | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Coaxial Cable                                            | EC Lab                         | RF-HY-CAB-250 | RF-HY-CAB-250-01            | 03/27/2026                | 03/26/2027               |
| EMI Test Receiver                                        | R&S                            | ESCI          | 101342                      | 04/16/2026                | 04/15/2027               |
| LISN                                                     | SCHWARZBECK<br>Mess-Elektronik | NSLK8127      | 974                         | 06/30/2025                | 06/29/2026               |
| Pulse Limiter                                            | EC Lab                         | VTSD 9561F-N  | 485                         | 03/27/2026                | 03/26/2027               |
| Test Software                                            | audix                          | e3            | E3 20923 SGS Ver.9<br>( C ) | N.C.R                     | N.C.R                    |

NOTE: N.C.R refers to Not Calibrated Required.

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## 5 REGULATORY REQUIREMENTS

### 5.1 Emission Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.2 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### 5.3 Maximum Output Power

FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

### 5.4 Maximum Power Spectral Density

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

### 5.5 Out of Band Emission

For emissions in non-restricted frequency bands, in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

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## 5.6 Unwanted Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands must also comply with the applicable radiated emission limits as defined in the general emission limit tables.

Moreover, for an intentional radiator operating below 10 GHz, the frequency range of measurements shall extend up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300               |
| 0.490-1.705     | 2400/F(kHz)                       | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

Note: The lower limit shall apply at the transition frequencies.

## 5.7 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits (dBμV) |          |
|---------------------|---------------|----------|
|                     | Quasi-peak    | Average  |
| 0.15 to 0.50        | 66 to 56      | 56 to 46 |
| 0.50 to 5           | 56            | 46       |
| 5 to 30             | 60            | 50       |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

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## 5.8 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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## 6 TEST CONFIGURATION

### 6.1 Emission Bandwidth



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. 6dB BW measurements  
The testing is performed in accordance with the applicable regulatory measurement procedure.  
Set the spectrum analyzer as  
RBW= 1% to 5% of the OBW but not less than 100 kHz,  
VBW  $\geq 3 \times$  RBW,  
Span= 2 to 5 times of the OBW,  
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold.  
Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.  
Repeat above procedures until all test default channel is completed.
4. 99% BW measurements  
The testing is performed in accordance with the applicable regulatory measurement procedure.  
Set the spectrum analyzer as  
RBW= 1 % to 5% of 99% without going below 10kHz,  
VBW $\geq 3 \times$  RBW,  
Span= 1.5 to 5 times of the OBW,  
Sweep=Auto, Detector = Peak, and Trace mode = Max Hold,  
Use the 99% power bandwidth function of the spectrum analyzer.  
Repeat above procedures until all test default channel is completed.

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## 6.2 Maximum Output Power

### 6.2.1 Duty Cycle



Set the spectrum analyzer as

Center Frequency = fundamental frequency

Span = Zero,

RBW = 8 MHz,

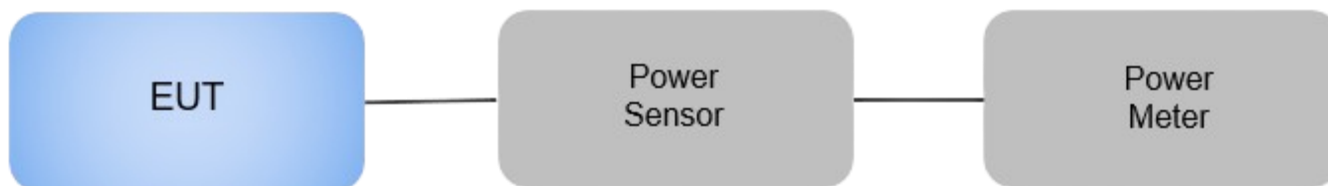
VBW = 8 MHz,

Detector = Peak,

Allow trace to fully stabilize.

Use the delta marker function to determine the ON and OFF times.

### 6.2.2 Output Power



1. Place the EUT on the table and set it to transmit mode.
2. The testing was performed in accordance with the applicable measurement procedure.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the power meter.
4. Record the maximum reading as observed from the power meter.
5. Repeat the above procedures until all default test channels have been measured.

Note: The duty cycle factor is applied to obtain the average measurement corrected to its maximum equivalent.

Note: when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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### 6.3 Maximum Power Spectral Density



The test is conducted in accordance with the applicable regulatory measurement procedure.

Set spectrum analyzer center frequency to DTS channel center frequency.

Set the span > 1.5 times the DTS channel bandwidth.

Set the RBW = 3 kHz and VBW = 10 kHz.

Detector = Peak.

Sweep time = Auto Couple.

Trace mode = Max Hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Note: When the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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## 6.4 Out of Band Emission



### 6.4.1 Reference Level of Emission Limit

The testing is performed in accordance with the applicable measurement procedure.  
Set the analyzer center frequency to the DTS channel center frequency.  
Set the span to 1.5 times the DTS channel bandwidth.  
Set RBW = 100 kHz and VBW = 300 kHz.  
Detector = Peak.  
Sweep time = Auto Couple.  
Trace mode = Max Hold.  
Allow the trace to fully stabilize.  
Use the peak marker function to determine the maximum amplitude level.

### 6.4.2 Conducted Band Edge

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.
3. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
4. Set the start frequency and stop frequency of the spectrum analyzer to encompass the spectrum to be examined.

Configure the spectrum analyzer as follows:

RBW = 100 kHz

VBW = 300 kHz

Detector = Peak

Sweep = Auto

Mark the highest reading of the emission as the reference level.

Set DL as the limit = reading on marker of reference level measurement

Mark the highest emissions observed outside of the 2400 MHz to 2483.5 MHz band.

5. Repeat the above procedure for each default test channel (low, middle, and high).

### 6.4.3 Conducted Spurious Emission

1. The testing is performed in accordance with the applicable measurement procedure.
2. Connect the antenna port of the EUT to the spectrum analyzer.

Configure the spectrum analyzer as follows:

RBW = 100 kHz

VBW = 300 kHz

Detector = Peak

Sweep = Auto.

Allow the trace to fully stabilize.

Use the peak marker function to determine the maximum power level in any 100

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kHz band segment within the fundamental emission bandwidth (EBW).

3. Repeat the above procedures until all default test channels (low, middle, and high) have been measured.

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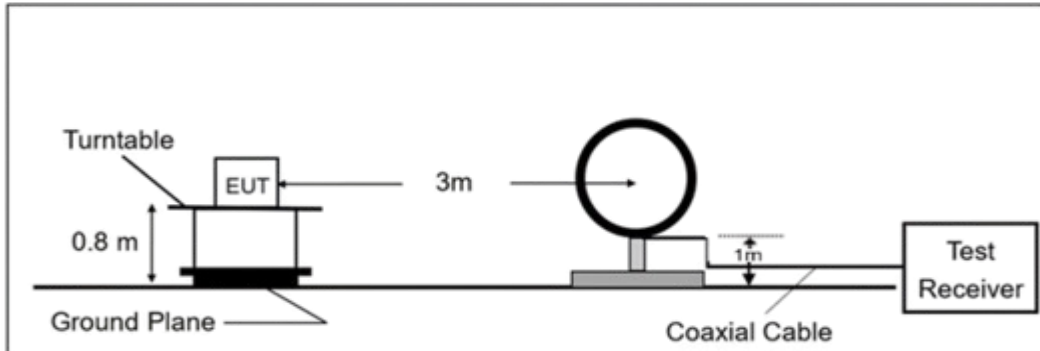
## 6.5 Unwanted Emissions

For Measurements From 9 kHz To 30 MHz

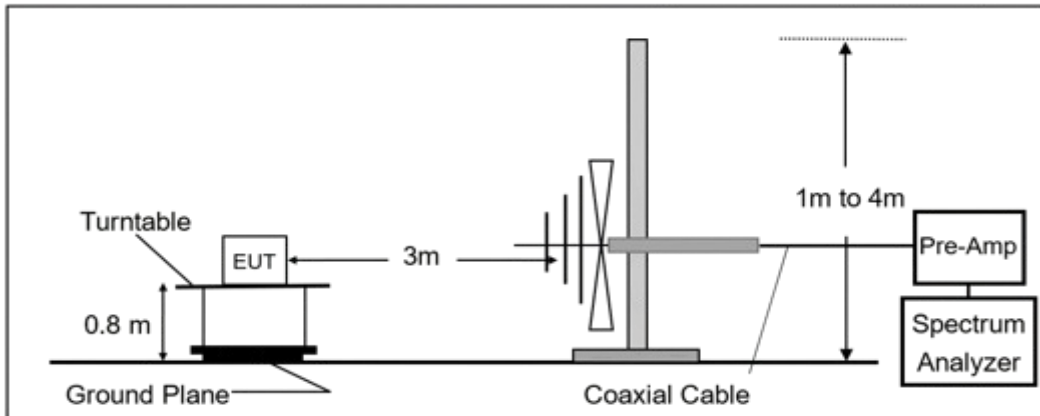
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

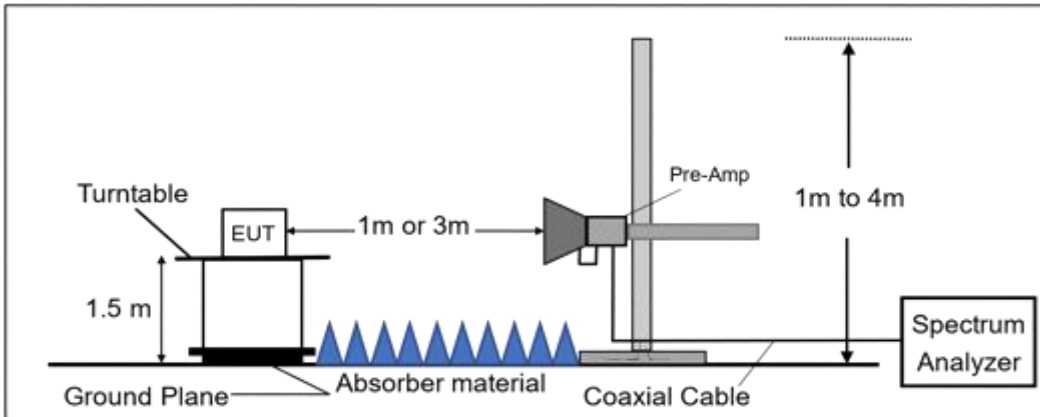
Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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1. The testing was performed in accordance with the applicable radiated emission measurement procedure.
2. The EUT was placed on a turntable at a height of 0.8 m for frequencies below 1 GHz and 1.5 m for frequencies above 1 GHz.
3. The turntable was rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned 3 meters away from the receiving antenna, which was varied in height from 1 m to 4 m to locate the highest emissions.
5. The spectrum analyzer was set with RBW = 100 kHz and VBW = 300 kHz, using a Peak detector for frequencies between 30 MHz and 1 GHz.
6. A receiver mode with RBW = 120 kHz was used for Quasi-Peak (QP) measurements between 30 MHz and 1 GHz.
7. For frequencies above 1 GHz, the spectrum analyzer was set with RBW = 1 MHz, VBW = 3 MHz, and Detector = Peak for maximum emission measurements.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is  $[10 \log (1 / D)]$  for Average Emission measurements at frequency above 1 GHz when  $D \geq 98\%$ . If a specific emission is demonstrated to be continuous ( $D \geq 98\%$ ) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz, VBW  $\geq 1/T$ , Detector= Peak when  $D < 98\%$  for Average Emission Measurements at frequency above 1 GHz.
10. The average value of pulsed emissions is determined using the duty cycle correction method, applying a correction factor of  $20 \times \log_{10} (T_{on} / 100 \text{ ms})$ .
11. When measuring radiated emissions above 1 GHz, the receiving antenna was maintained within the "cone of radiation" and pointed at the emission source in both azimuth and elevation, with polarization oriented for maximum response, ensuring it remained within the 3 dB illumination beamwidth of the measurement antenna.
12. The six highest emissions were fully maximized using the above procedures to ensure EUT compliance.
13. Each emission was further maximized by changing the receiving antenna polarization between horizontal and vertical.
14. Repeat the above procedures until all default test channels (low, middle, and high) are measured.

Note: Emissions from 9 kHz to 30 MHz were pre-scanned and found to be at least 20 dB below the applicable limits, and are therefore not reported.

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### 6.5.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB $\mu$ V/m)

RA = Reading Amplitude (dB $\mu$ V)

AF = Antenna Factor (dB/m)

CL = Cable Loss (dB)

AG = Amplifier Gain (dB)

The emission limit is expressed in dB $\mu$ V/m, which corresponds to the logarithmic conversion of  $20 \times \log_{10} (\mu\text{V/m})$ .

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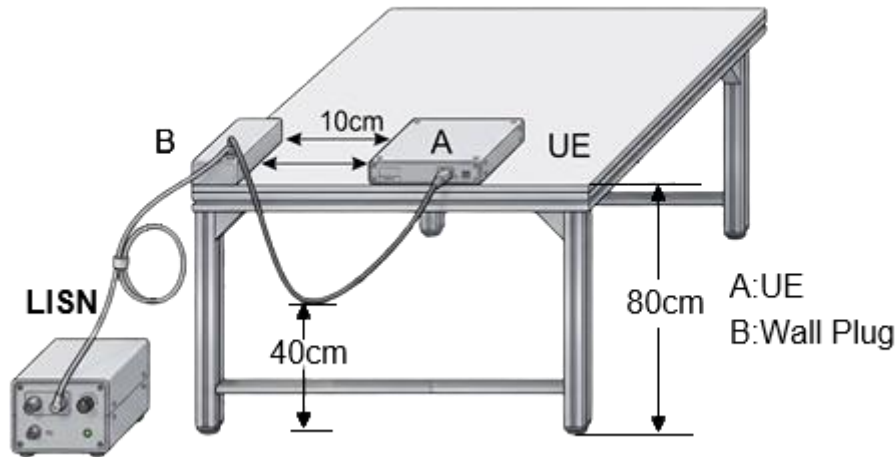
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## 6.6 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI\_C63.10
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50  $\mu$ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

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## 7 TEST RESULTS

### 7.1 Emission Bandwidth

#### 7.1.1 6dB BW measurements

##### BLE 2M mode

| Frequency (MHz) | 6dB BW (MHz) | Required BW (MHz) | Result |
|-----------------|--------------|-------------------|--------|
| 2402            | 0.8631       | $\geq 0.5$        | PASS   |
| 2442            | 0.8696       | $\geq 0.5$        | PASS   |
| 2480            | 0.8653       | $\geq 0.5$        | PASS   |

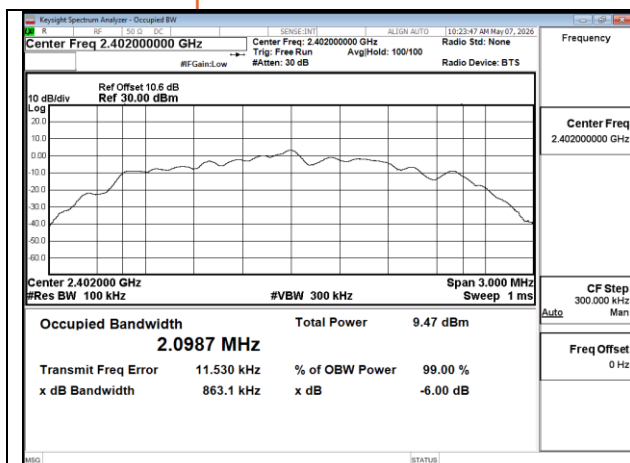
##### BLE 125k mode(Payload S=8)

| Frequency (MHz) | 6dB BW (MHz) | Required BW (MHz) | Result |
|-----------------|--------------|-------------------|--------|
| 2402            | 0.6864       | $\geq 0.5$        | PASS   |
| 2442            | 0.6861       | $\geq 0.5$        | PASS   |
| 2480            | 0.6843       | $\geq 0.5$        | PASS   |

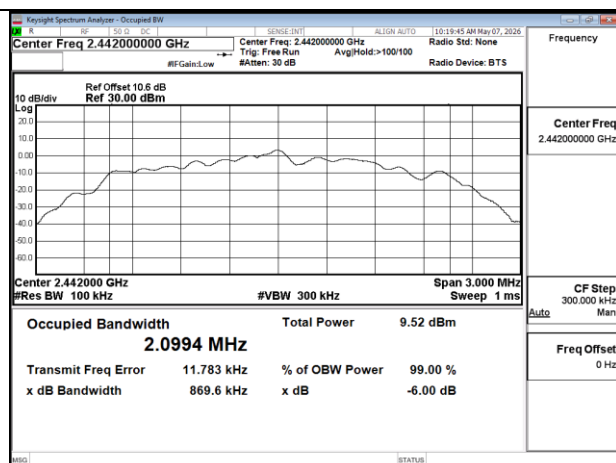
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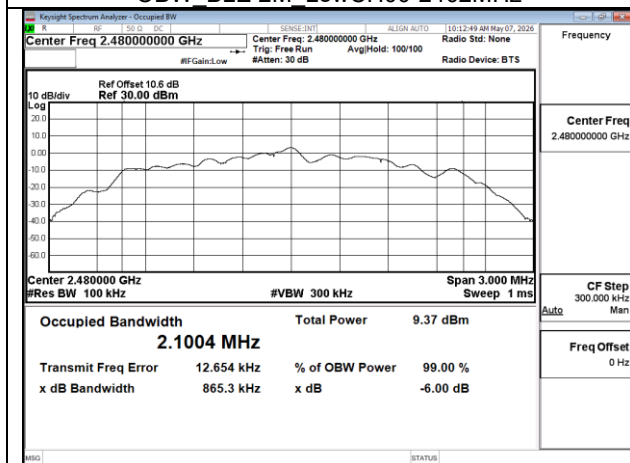
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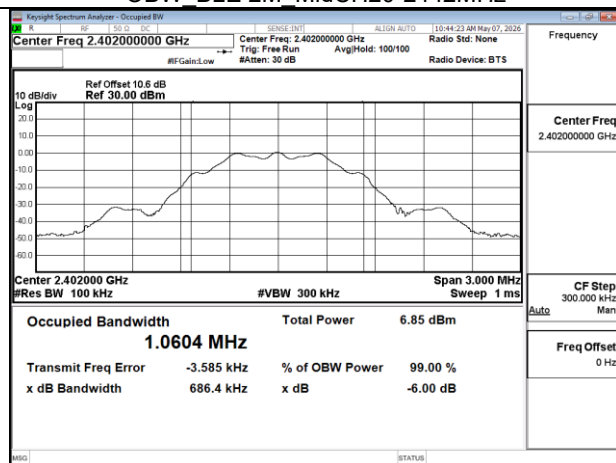
OBW BLE 2M LowCH00-2402MHz



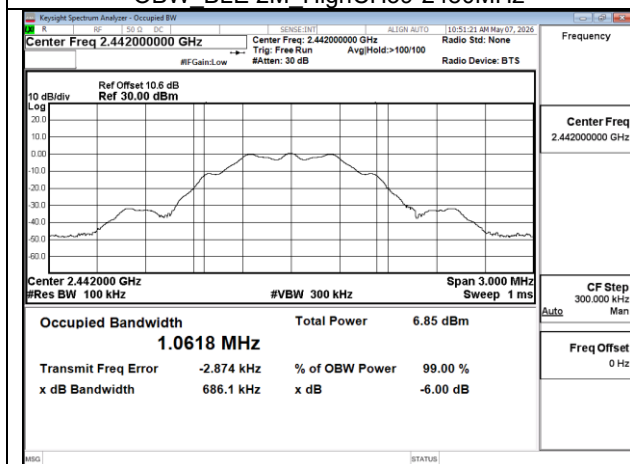
OBW BLE 2M MidCH20-2442MHz



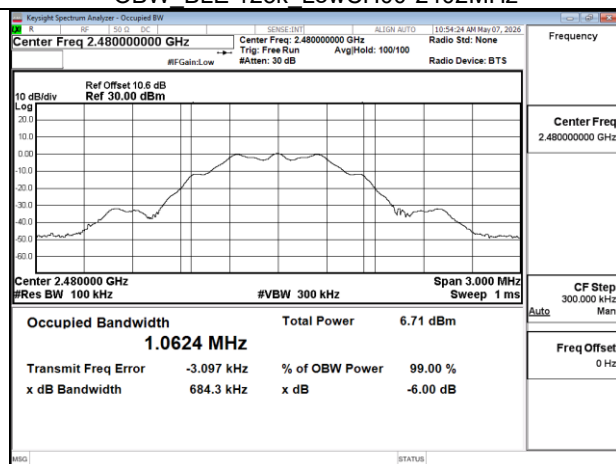
OBW BLE 2M HighCH39-2480MHz



OBW BLE 125k LowCH00-2402MHz



OBW BLE 125k MidCH20-2442MHz



OBW BLE 125k HighCH39-2480MHz

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## 7.1.2 99% Bandwidth

### BLE 2M mode

| Frequency (MHz) | 99%Bandwidth (MHz) |
|-----------------|--------------------|
| 2402            | 2.0984             |
| 2442            | 2.0986             |
| 2480            | 2.0989             |

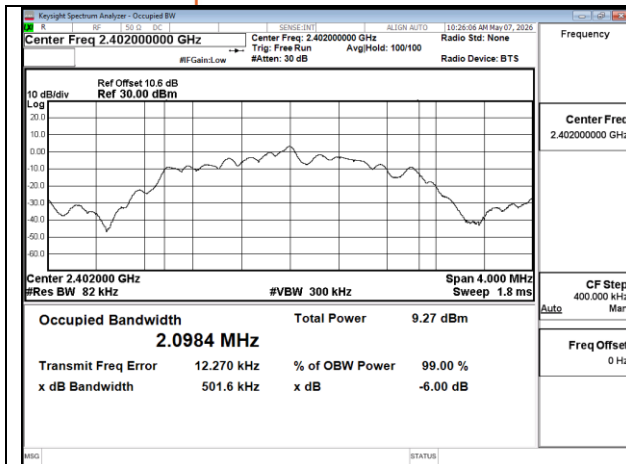
### BLE 125k mode(Payload S=8)

| Frequency (MHz) | 99%Bandwidth (MHz) |
|-----------------|--------------------|
| 2402            | 1.0553             |
| 2442            | 1.0544             |
| 2480            | 1.0536             |

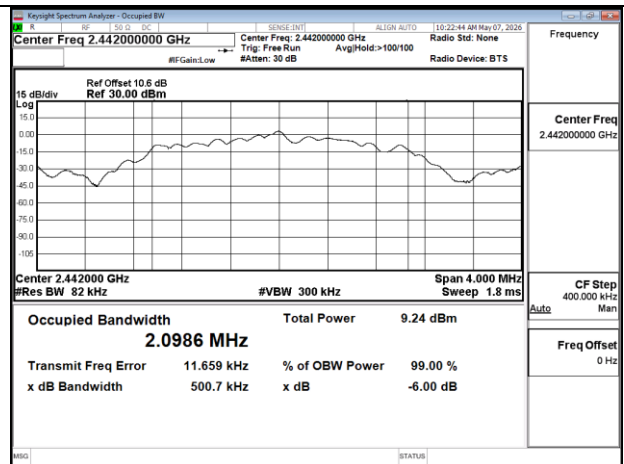
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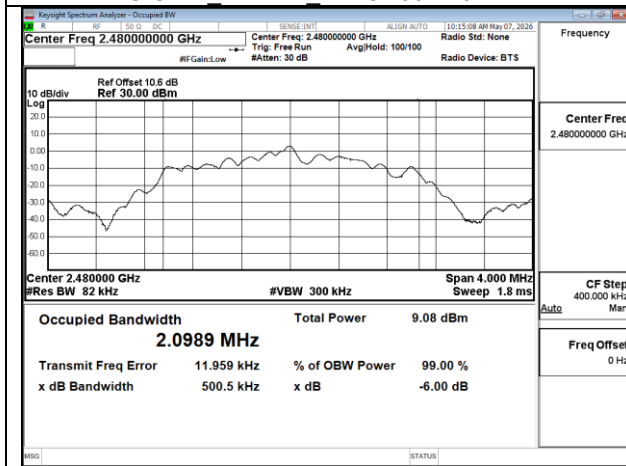
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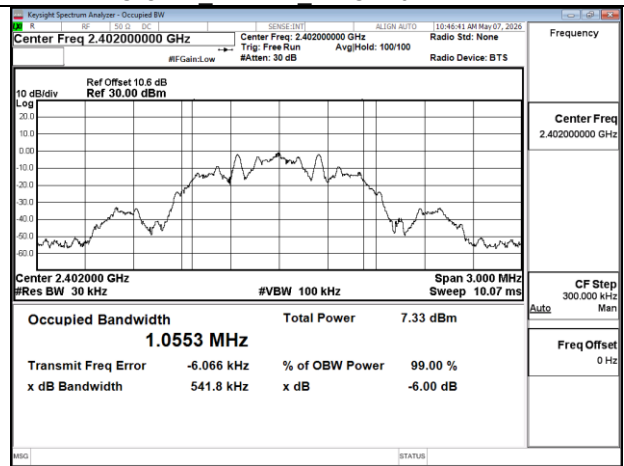
IC OBW BLE 2M\_LowCH00-2402MHz



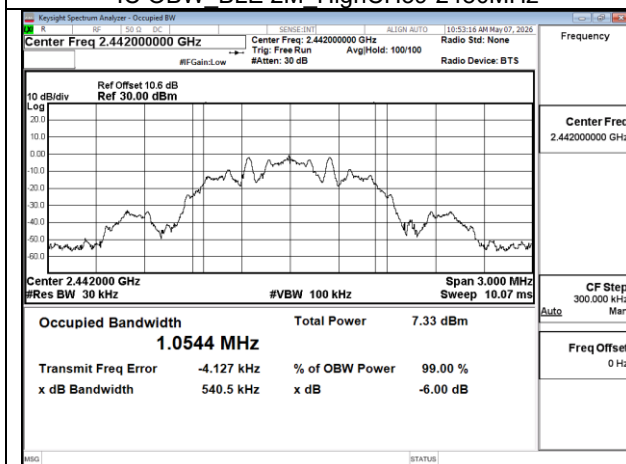
IC OBW BLE 2M\_MidCH20-2442MHz



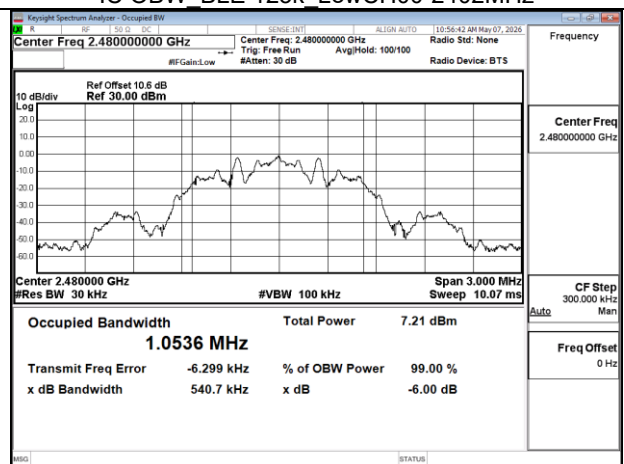
IC OBW BLE 2M\_HighCH39-2480MHz



IC OBW BLE 125k\_LowCH00-2402MHz



IC OBW BLE 125k\_MidCH20-2442MHz



IC OBW BLE 125k\_HighCH39-2480MHz

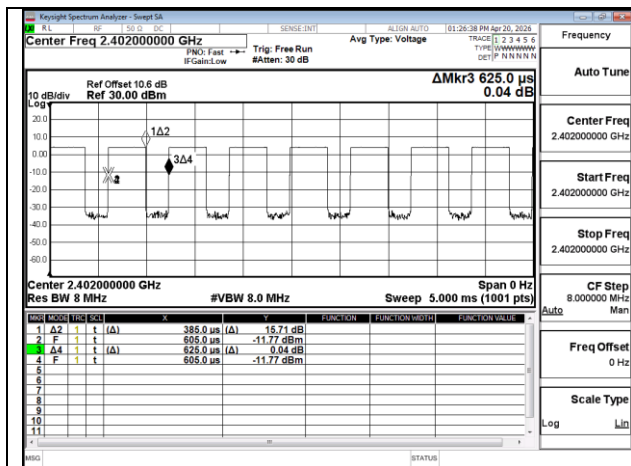
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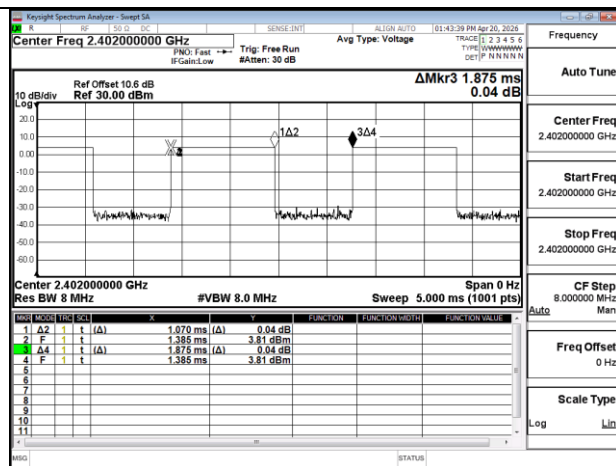
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## 7.2 Duty Factor

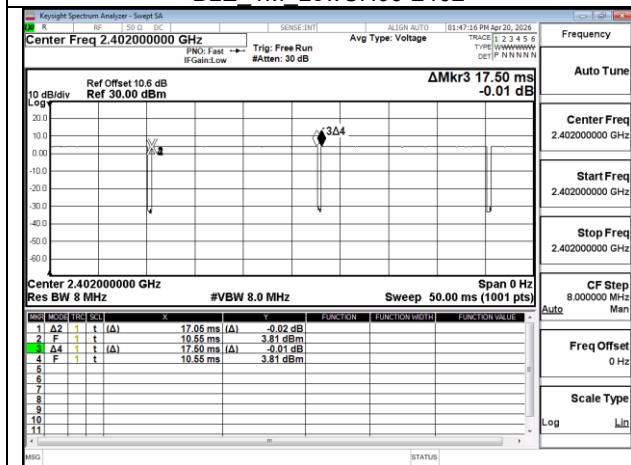
| Mode     | Duty Cycle (%)<br>= Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty<br>Cycle ) | 1/T (kHz) | VBW setting<br>(kHz) |
|----------|--------------------------------------|-------------------------------------------------|-----------|----------------------|
| BLE 1M   | 61.60                                | 2.10                                            | 2.60      | 3.00                 |
| BLE 2M   | 57.07                                | 2.44                                            | 0.93      | 1.00                 |
| BLE 125k | 97.43                                | 0.11                                            | 0.06      | 1.00                 |
| BLE 500k | 91.02                                | 0.41                                            | 0.22      | 1.00                 |



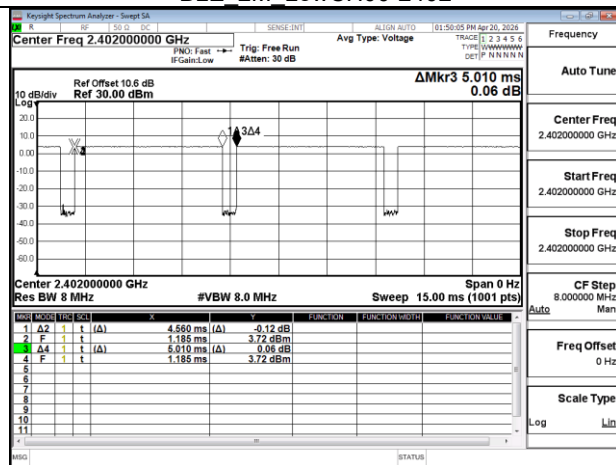
BLE 1M LowCH00-2402



BLE 2M LowCH00-2402



BLE 125k LowCH00-2402



BLE 500k LowCH00-2402

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### 7.3 Maximum Output Power

#### 7.3.1 Peak & Avg

BLE 1M mode:

| CH | Frequency (MHz) | Power Setting | Peak Output Power (dBm) | Required Limit (dBm) |
|----|-----------------|---------------|-------------------------|----------------------|
| 0  | 2402            | 7             | 7.02                    | 30                   |
| 20 | 2442            | 7             | <b>7.19</b>             | 30                   |
| 39 | 2480            | 7             | 7.13                    | 30                   |
| CH | Frequency (MHz) | Power Setting | Avg. Output Power (dBm) | Required Limit (dBm) |
| 0  | 2402            | 7             | 4.45                    | 30                   |
| 20 | 2442            | 7             | 4.62                    | 30                   |
| 39 | 2480            | 7             | 4.58                    | 30                   |

**\*Note:**

**1.Measured by power meter, cable loss 10.6 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.**

BLE 2M mode:

| CH | Frequency (MHz) | Power Setting | Peak Output Power (dBm) | Required Limit (dBm) |
|----|-----------------|---------------|-------------------------|----------------------|
| 0  | 2402            | 7             | 7.09                    | 30                   |
| 20 | 2442            | 7             | <b>7.27</b>             | 30                   |
| 39 | 2480            | 7             | 7.16                    | 30                   |
| CH | Frequency (MHz) | Power Setting | Avg. Output Power (dBm) | Required Limit (dBm) |
| 0  | 2402            | 7             | 4.49                    | 30                   |
| 20 | 2442            | 7             | 4.70                    | 30                   |
| 39 | 2480            | 7             | 4.60                    | 30                   |

**\*Note:**

**1.Measured by power meter, cable loss 10.6 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.**

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**BLE 125k mode(Payload S=8):**

| CH | Frequency (MHz) | Power Setting | Peak Output Power (dBm) | Required Limit (dBm) |
|----|-----------------|---------------|-------------------------|----------------------|
| 0  | 2402            | 7             | 4.45                    | 30                   |
| 20 | 2442            | 7             | 4.45                    | 30                   |
| 39 | 2480            | 7             | 4.48                    | 30                   |
| CH | Frequency (MHz) | Power Setting | Avg. Output Power (dBm) | Required Limit (dBm) |
| 0  | 2402            | 7             | 2.33                    | 30                   |
| 20 | 2442            | 7             | 2.33                    | 30                   |
| 39 | 2480            | 7             | 2.35                    | 30                   |

**\*Note:**

**1.Measured by power meter, cable loss 10.6 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.**

**BLE 500k mode(Payload S=2):**

| CH | Frequency (MHz) | Power Setting | Peak Output Power (dBm) | Required Limit (dBm) |
|----|-----------------|---------------|-------------------------|----------------------|
| 0  | 2402            | 7             | 4.07                    | 30                   |
| 20 | 2442            | 7             | 4.12                    | 30                   |
| 39 | 2480            | 7             | 4.15                    | 30                   |
| CH | Frequency (MHz) | Power Setting | Avg. Output Power (dBm) | Required Limit (dBm) |
| 0  | 2402            | 7             | 2.27                    | 30                   |
| 20 | 2442            | 7             | 2.32                    | 30                   |
| 39 | 2480            | 7             | 2.34                    | 30                   |

**\*Note:**

**1.Measured by power meter, cable loss 10.6 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.**

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## 7.4 Maximum Power Spectral Density

### BLE 2M mode

| Frequency<br>(MHz) | RF Power Density<br>(dBm/3kHz) | Maximum Limit<br>(dBm/3kHz) | Result |
|--------------------|--------------------------------|-----------------------------|--------|
| 2402               | 3.118                          | 8                           | PASS   |
| 2442               | 3.097                          | 8                           | PASS   |
| 2480               | 3.03                           | 8                           | PASS   |

**\*Note:**

**1.cable loss as 10.6 dB that offsets in the spectrum**

### BLE 125k mode(Payload S=8)

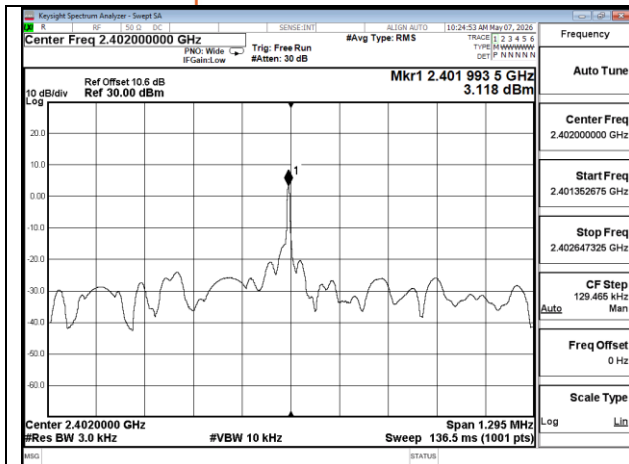
| Frequency<br>(MHz) | RF Power Density<br>(dBm/3kHz) | Maximum Limit<br>(dBm/3kHz) | Result |
|--------------------|--------------------------------|-----------------------------|--------|
| 2402               | -2.522                         | 8                           | PASS   |
| 2442               | -2.54                          | 8                           | PASS   |
| 2480               | -2.70                          | 8                           | PASS   |

**\*Note:**

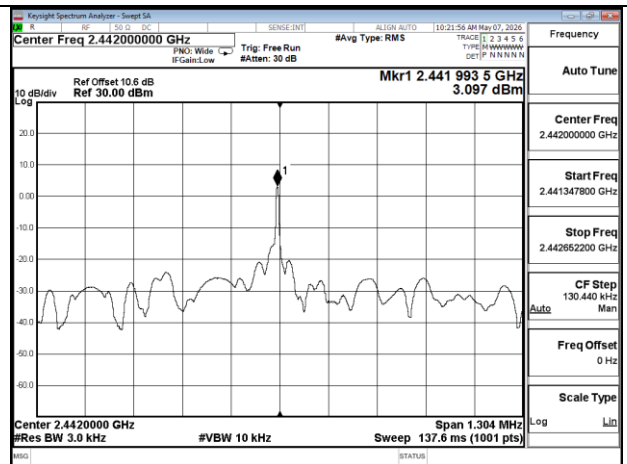
**1.cable loss as 10.6 dB that offsets in the spectrum**

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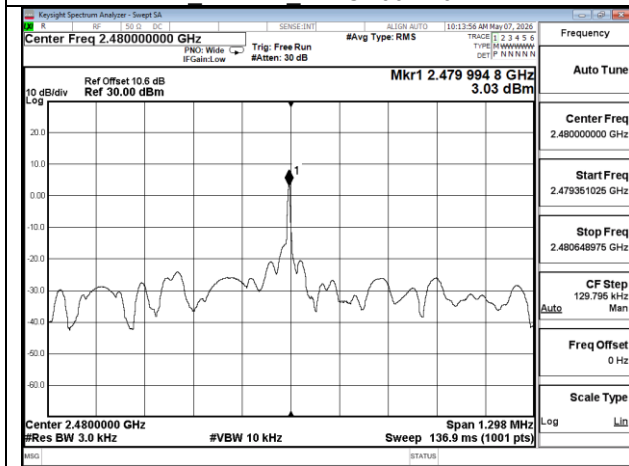
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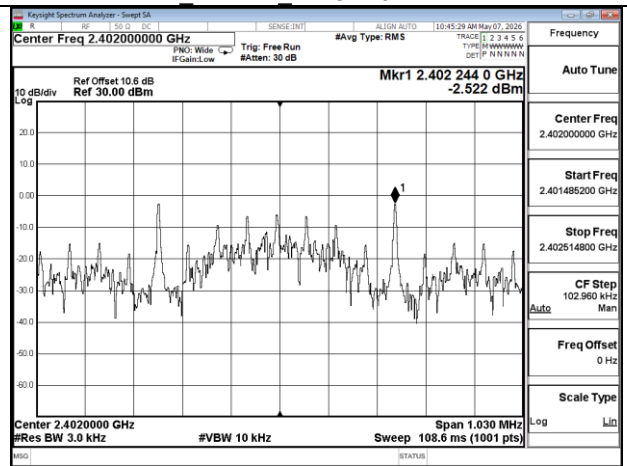
PSD\_BLE 2M\_LowCH00-2402MHz



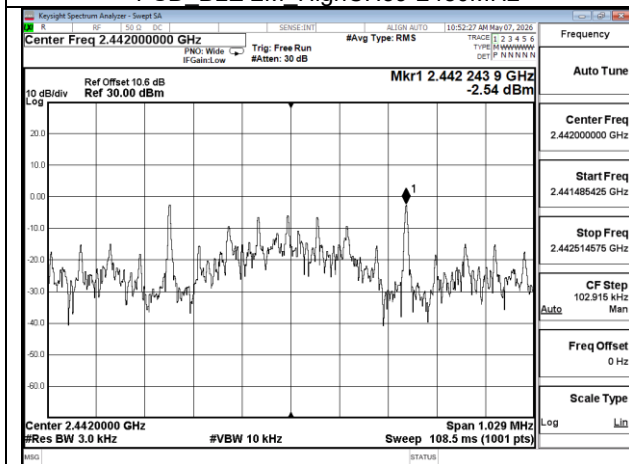
PSD\_BLE 2M\_MidCH20-2442MHz



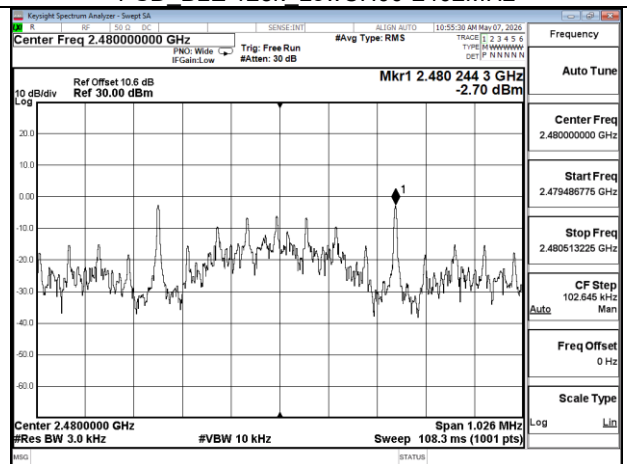
PSD\_BLE 2M\_HighCH39-2480MHz



PSD\_BLE 125k\_LowCH00-2402MHz



PSD\_BLE 125k\_MidCH20-2442MHz



PSD\_BLE 125k\_HighCH39-2480MHz

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## 7.5 Out of Band Emission

### BLE 2M\_Reference Level of Limit

| Frequency (MHz) | RF Power Density (dBm) | Reference Level of Limit = PSD - 20dB (dBm) |
|-----------------|------------------------|---------------------------------------------|
| 2402            | 3.15                   | -16.85                                      |
| 2442            | 3.179                  | -16.82                                      |
| 2480            | 3.06                   | -16.94                                      |

**\*Note:**

- 1.cable loss as 10.6 dB that offsets in the spectrum
- 2.Refer to next page for plots.

### BLE 125k(Payload S=8)\_Reference Level of Limit

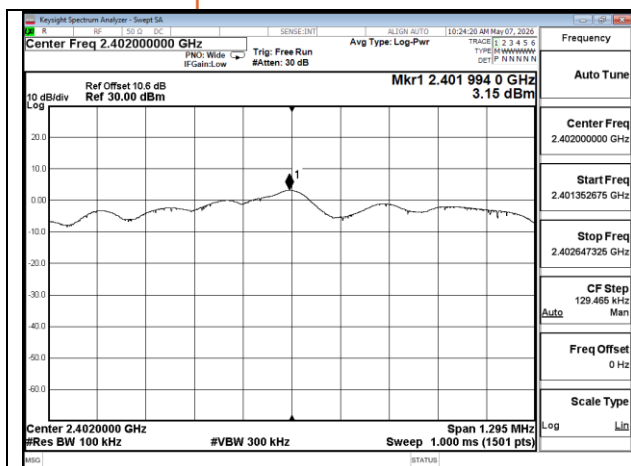
| Frequency (MHz) | RF Power Density (dBm) | Reference Level of Limit = PSD - 20dB (dBm) |
|-----------------|------------------------|---------------------------------------------|
| 2402            | 0.43                   | -19.57                                      |
| 2442            | 0.39                   | -19.61                                      |
| 2480            | 0.251                  | -19.75                                      |

**\*Note:**

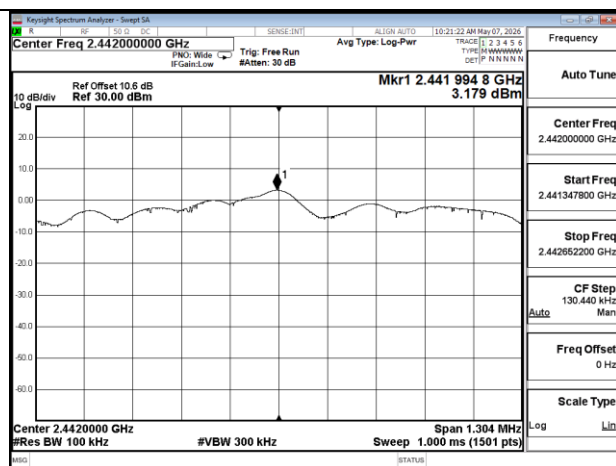
- 1.cable loss as 10.6 dB that offsets in the spectrum
- 2.Refer to next page for plots.

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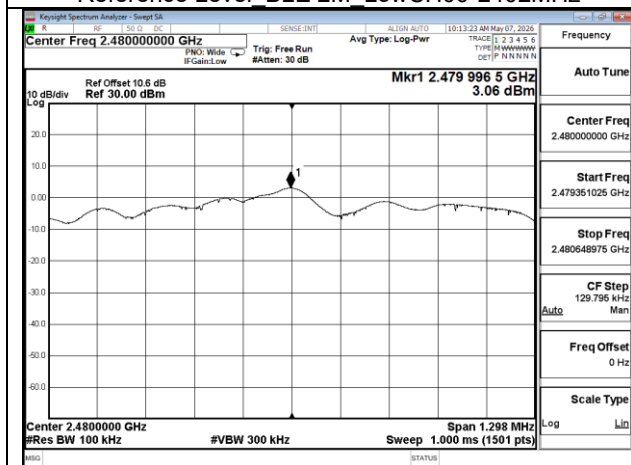
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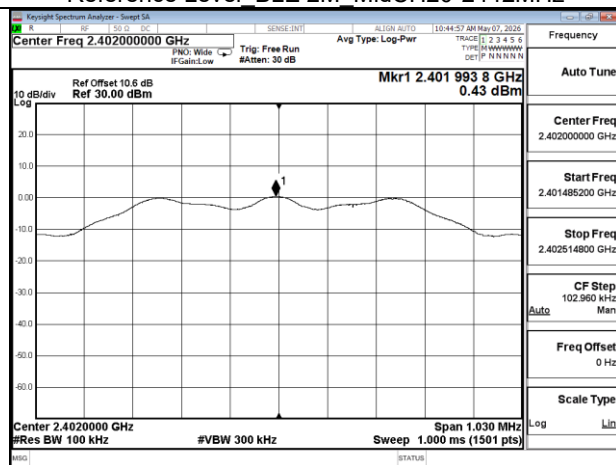
Reference Level BLE 2M LowCH00-2402MHz



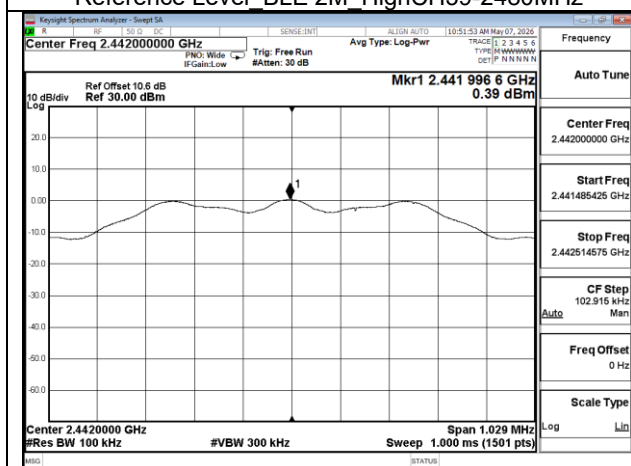
Reference Level BLE 2M MidCH20-2442MHz



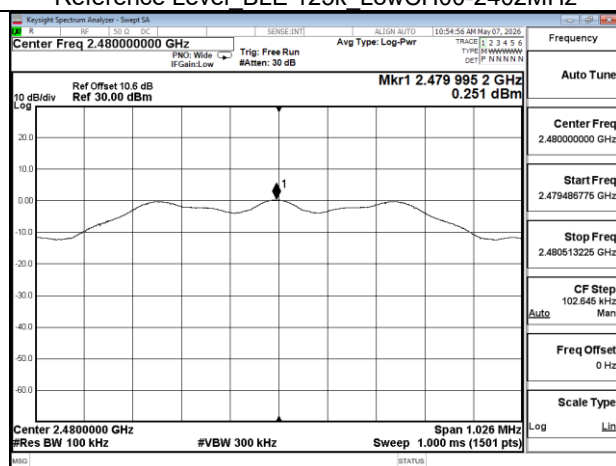
Reference Level BLE 2M HighCH39-2480MHz



Reference Level BLE 125k LowCH00-2402MHz



Reference Level BLE 125k MidCH20-2442MHz

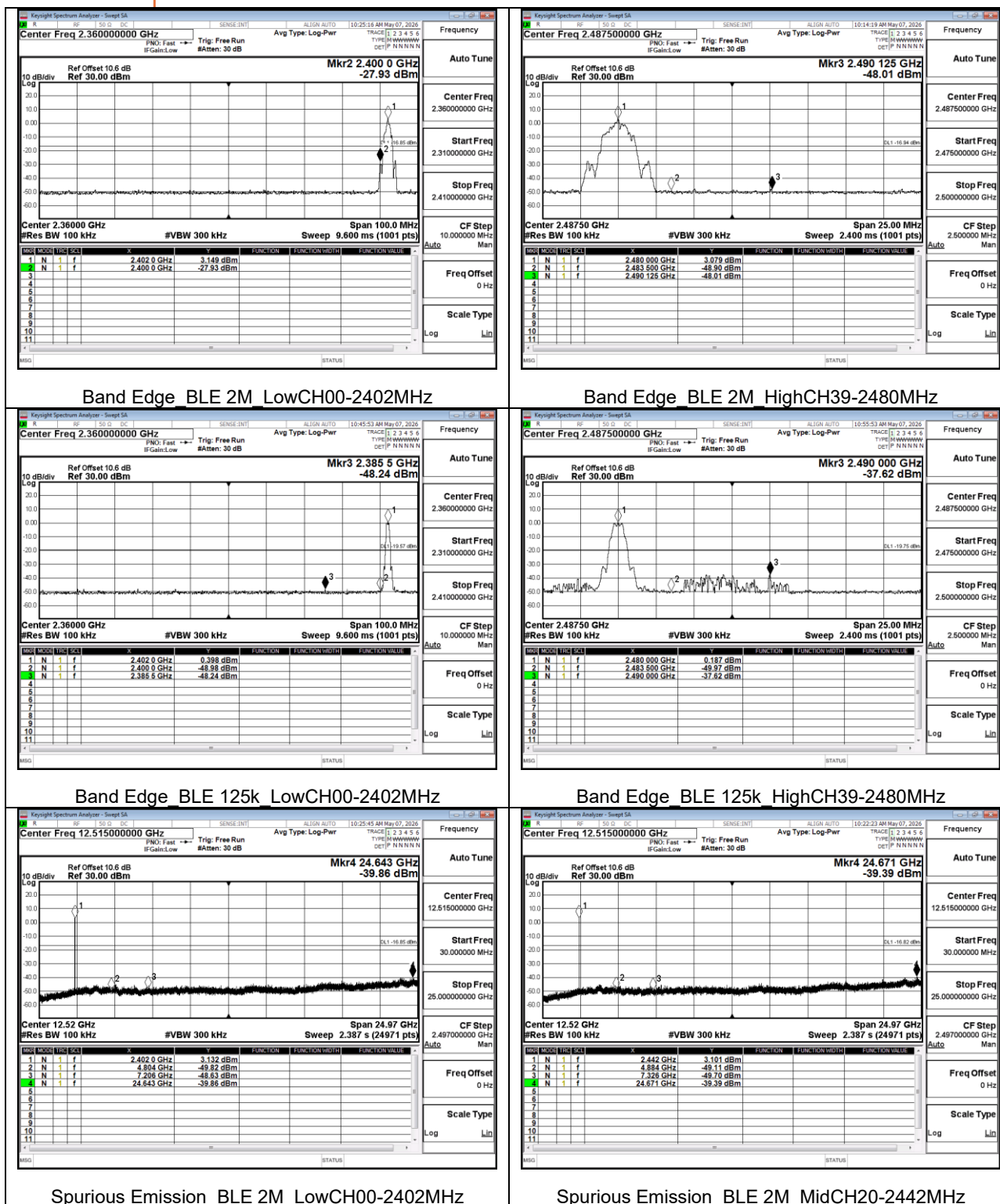


Reference Level BLE 125k HighCH39-2480MHz

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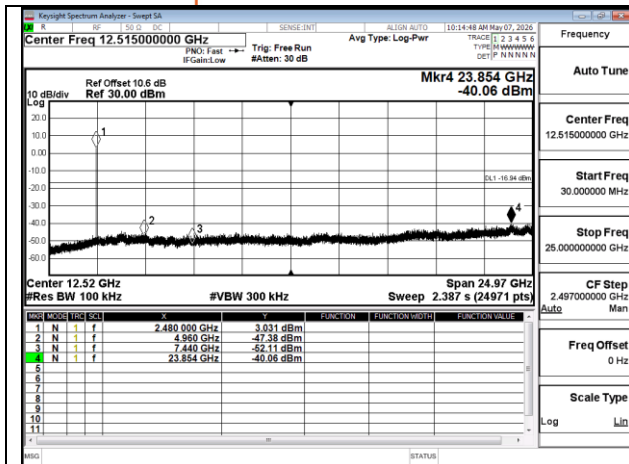
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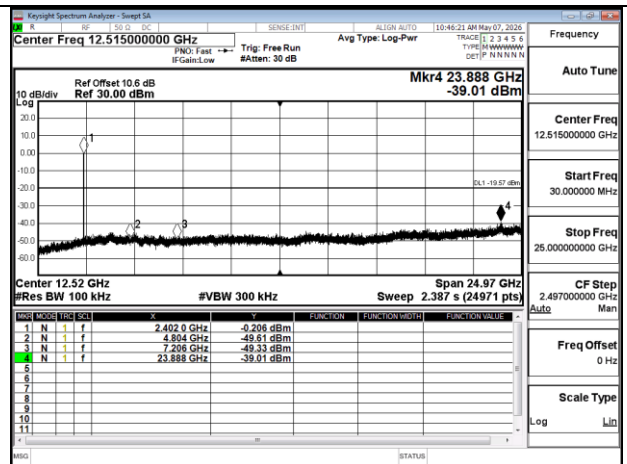
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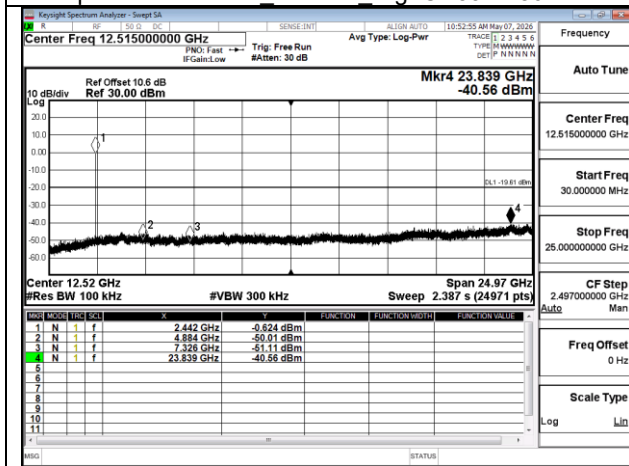
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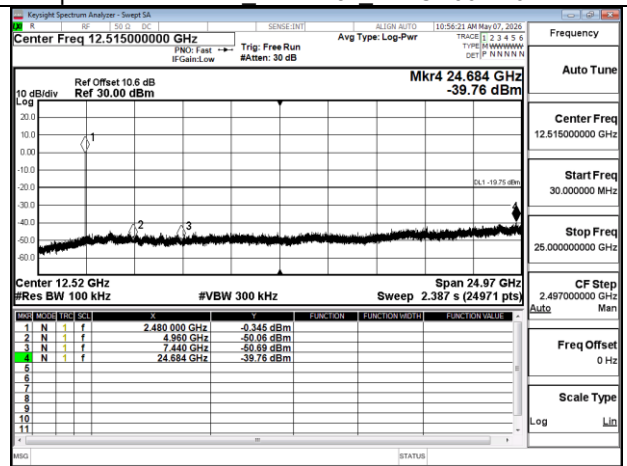
Spurious Emission BLE 2M HighCH39-2480MHz



Spurious Emission BLE 125k LowCH00-2402MHz



Spurious Emission BLE 125k MidCH20-2442MHz



Spurious Emission BLE 125k HighCH39-2480MHz

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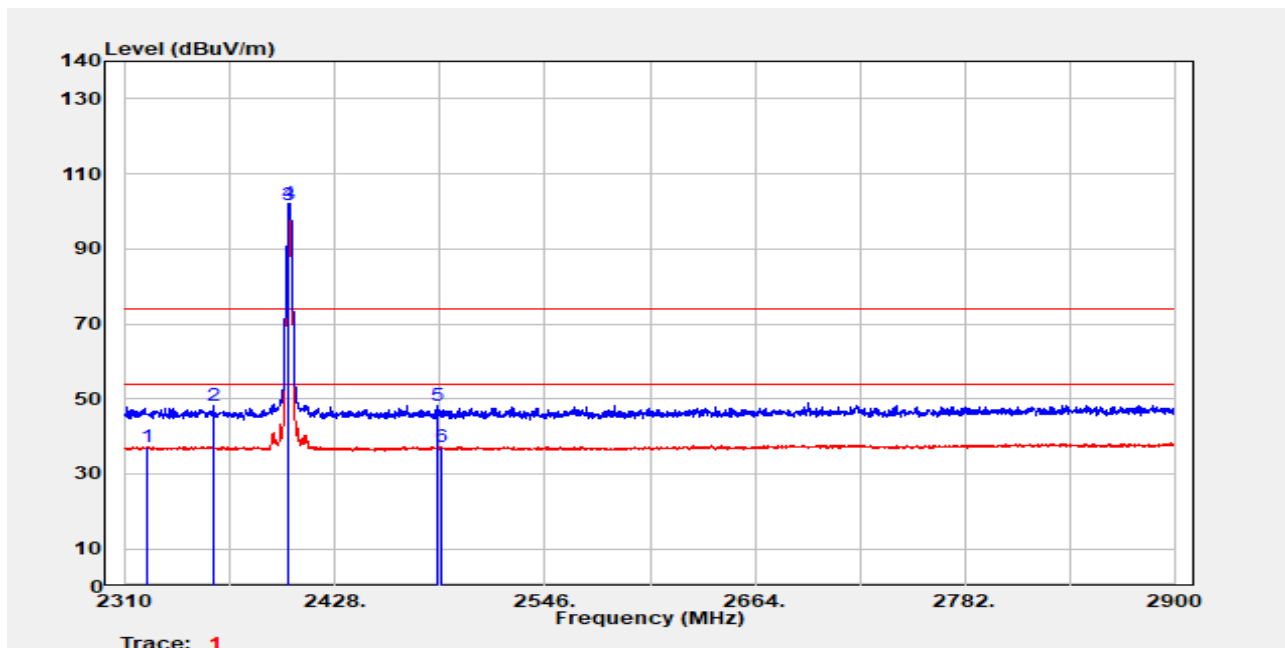
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## 7.6 Unwanted Emissions

### 7.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



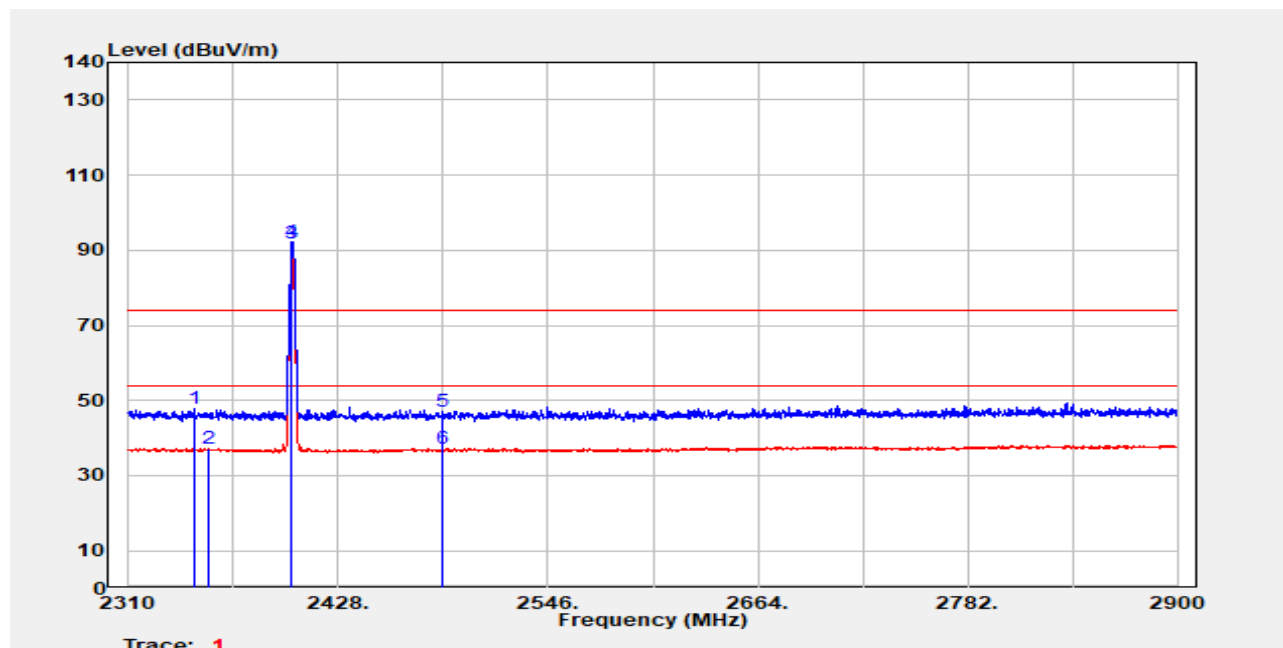
| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2321.61 | Average  | 40.59         | -3.39  | 37.20  | 54.00  | -16.80 |
| 2359.18 | Peak     | 51.74         | -3.45  | 48.29  | 74.00  | -25.71 |
| 2401.68 | Average  | 105.32        | -3.77  | 101.55 | -      | -      |
| 2401.68 | Peak     | 105.98        | -3.77  | 102.21 | -      | -      |
| 2485.49 | Peak     | 51.69         | -3.53  | 48.16  | 74.00  | -25.84 |
| 2487.45 | Average  | 40.64         | -3.52  | 37.12  | 54.00  | -16.88 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



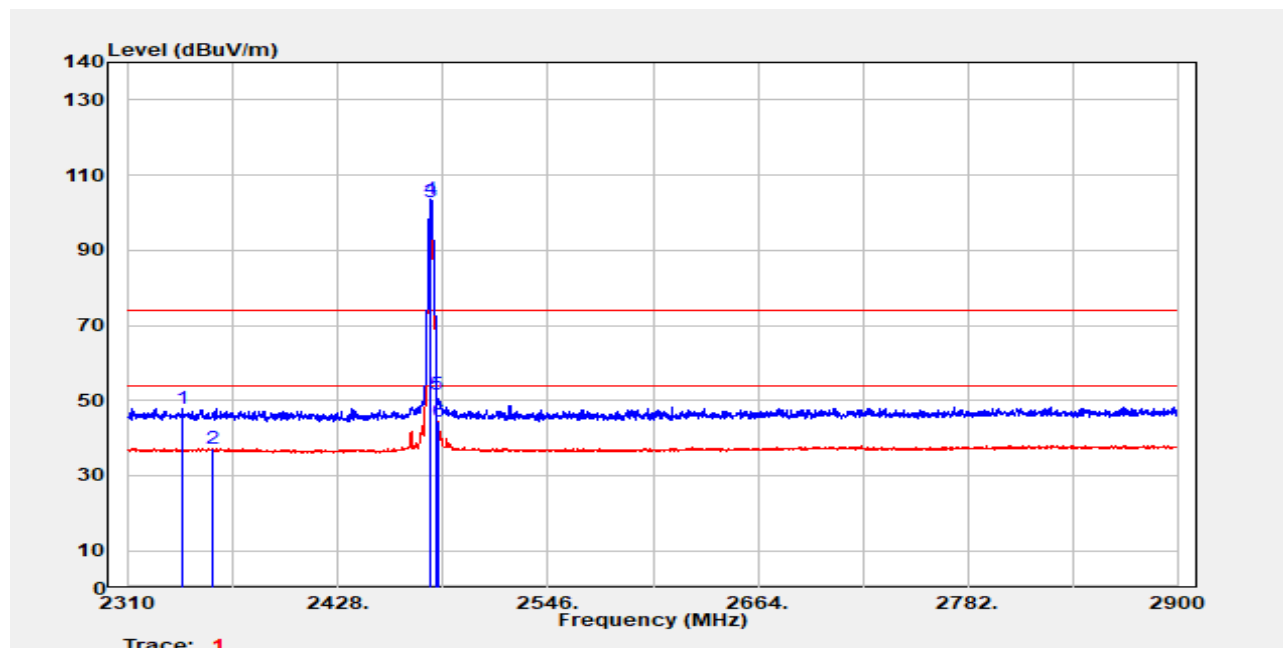
| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2346.99 | Peak     | 51.11         | -3.46  | 47.65  | 74.00  | -26.35 |
| 2354.66 | Average  | 40.63         | -3.45  | 37.18  | 54.00  | -16.82 |
| 2401.68 | Average  | 95.42         | -3.77  | 91.65  | -      | -      |
| 2401.68 | Peak     | 96.13         | -3.77  | 92.36  | -      | -      |
| 2486.27 | Peak     | 50.66         | -3.53  | 47.13  | 74.00  | -26.87 |
| 2486.86 | Average  | 40.71         | -3.53  | 37.18  | 54.00  | -16.82 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2340.30 | Peak     | 51.48         | -3.51  | 47.97  | 74.00  | -26.03 |
| 2357.61 | Average  | 40.65         | -3.45  | 37.20  | 54.00  | -16.80 |
| 2479.78 | Average  | 106.36        | -3.55  | 102.81 | -      | -      |
| 2479.78 | Peak     | 106.98        | -3.55  | 103.43 | -      | -      |
| 2483.50 | Peak     | 55.24         | -3.54  | 51.70  | 74.00  | -22.30 |
| 2484.11 | Average  | 47.91         | -3.54  | 44.37  | 54.00  | -9.63  |

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t (886-2) 2299-3279

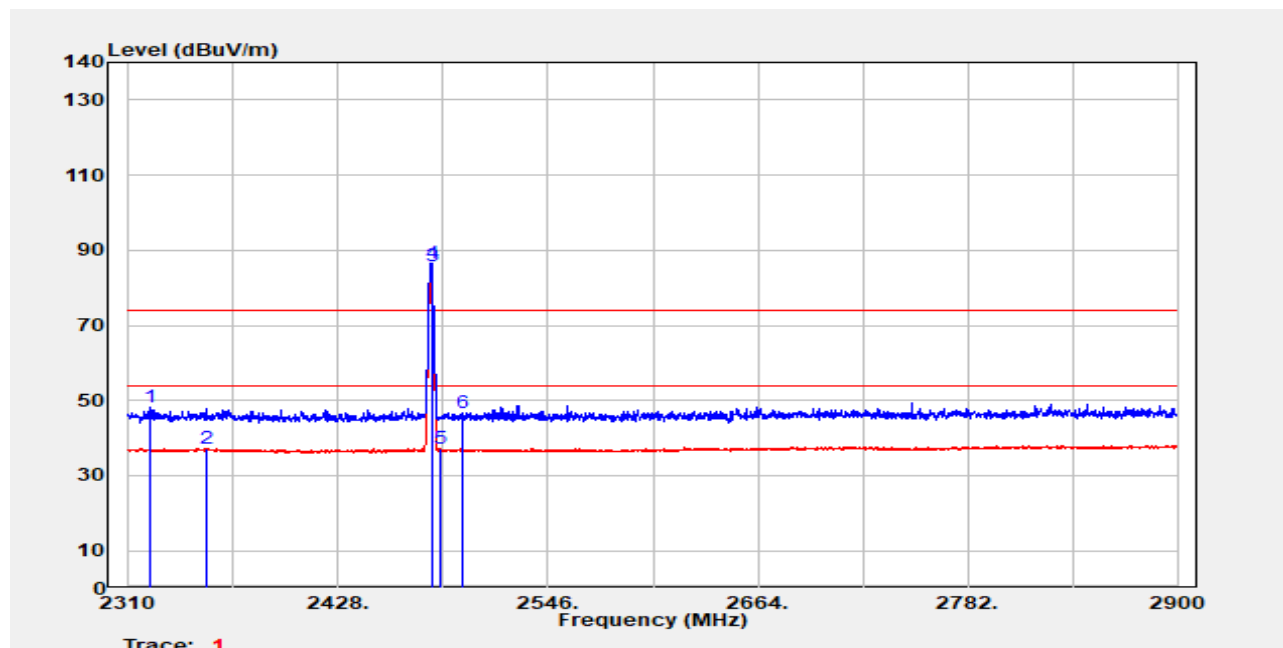
f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2322.39 | Peak     | 51.74         | -3.40  | 48.34  | 74.00  | -25.66 |
| 2353.28 | Average  | 40.74         | -3.44  | 37.30  | 54.00  | -16.70 |
| 2480.57 | Average  | 89.43         | -3.55  | 85.88  | -      | -      |
| 2480.57 | Peak     | 90.11         | -3.55  | 86.56  | -      | -      |
| 2485.88 | Average  | 40.71         | -3.53  | 37.18  | 54.00  | -16.82 |
| 2497.68 | Peak     | 50.06         | -3.49  | 46.57  | 74.00  | -27.43 |

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t (886-2) 2299-3279

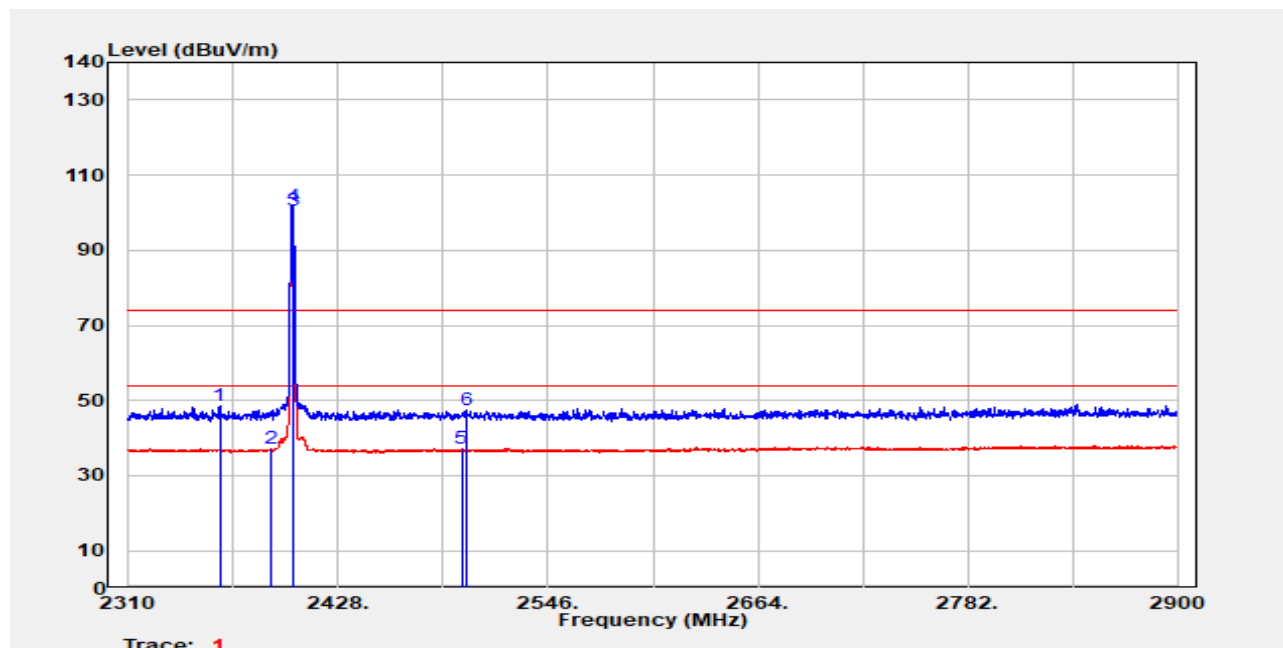
f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



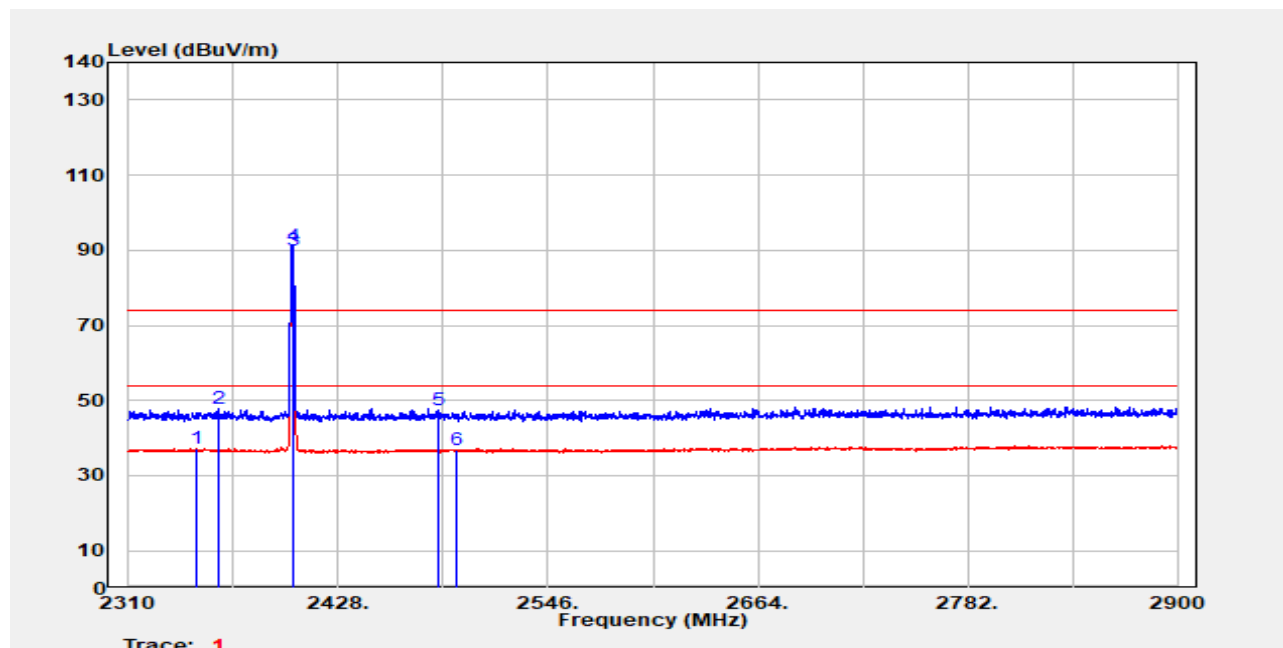
| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2361.15 | Peak     | 52.01         | -3.47  | 48.54  | 74.00  | -25.46 |
| 2389.68 | Average  | 40.77         | -3.73  | 37.04  | 54.00  | -16.96 |
| 2402.07 | Average  | 104.32        | -3.76  | 100.56 | -      | -      |
| 2402.07 | Peak     | 105.57        | -3.76  | 101.81 | -      | -      |
| 2497.29 | Average  | 40.56         | -3.49  | 37.07  | 54.00  | -16.93 |
| 2499.65 | Peak     | 50.85         | -3.48  | 47.37  | 74.00  | -26.63 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2402 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| Mode    |          | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2348.17 | Average  | 40.59         | -3.45  | 37.14  | 54.00  | -16.86 |
| 2360.36 | Peak     | 51.24         | -3.46  | 47.78  | 74.00  | -26.22 |
| 2402.07 | Average  | 93.58         | -3.76  | 89.82  | -      | -      |
| 2402.07 | Peak     | 94.82         | -3.76  | 91.06  | -      | -      |
| 2483.72 | Peak     | 50.96         | -3.54  | 47.42  | 74.00  | -26.58 |
| 2494.93 | Average  | 40.47         | -3.50  | 36.97  | 54.00  | -17.03 |

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t (886-2) 2299-3279

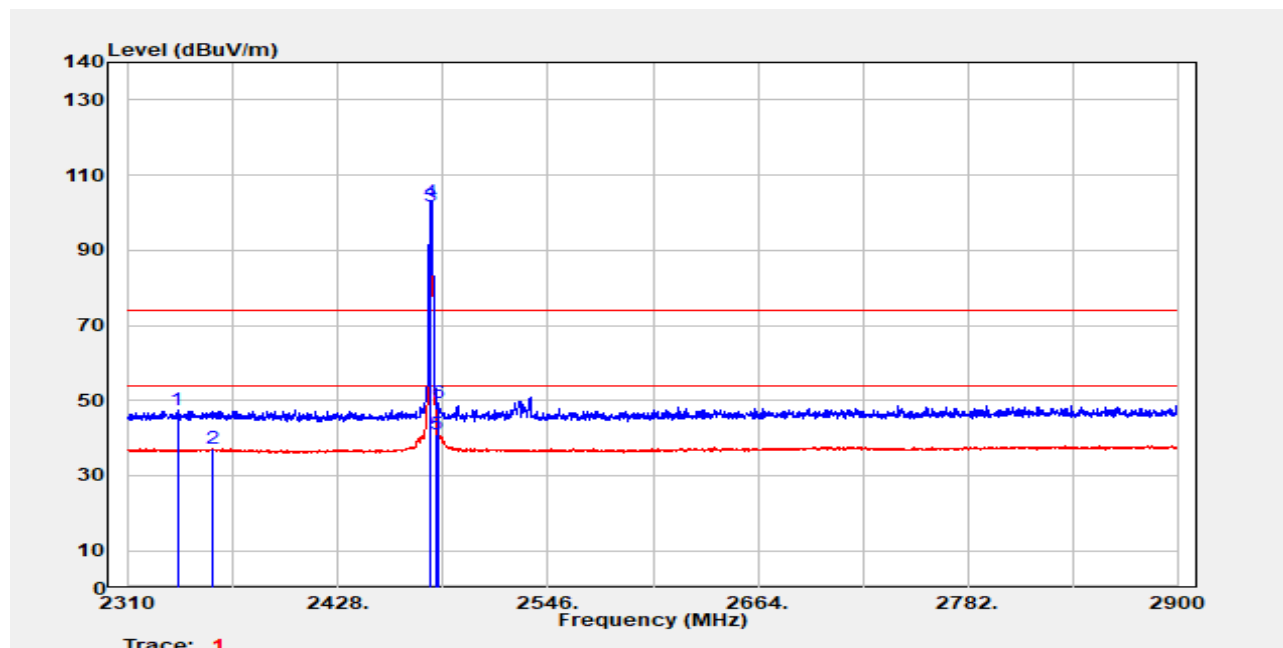
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
|         | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2337.35 | Peak     | 50.80         | -3.50  | 47.30  | 74.00  | -26.70 |
| 2357.02 | Average  | 40.65         | -3.45  | 37.20  | 54.00  | -16.80 |
| 2480.17 | Average  | 105.31        | -3.55  | 101.76 | -      | -      |
| 2480.17 | Peak     | 106.54        | -3.55  | 102.99 | -      | -      |
| 2483.50 | Average  | 44.61         | -3.54  | 41.07  | 54.00  | -12.93 |
| 2483.91 | Peak     | 52.97         | -3.54  | 49.43  | 74.00  | -24.57 |

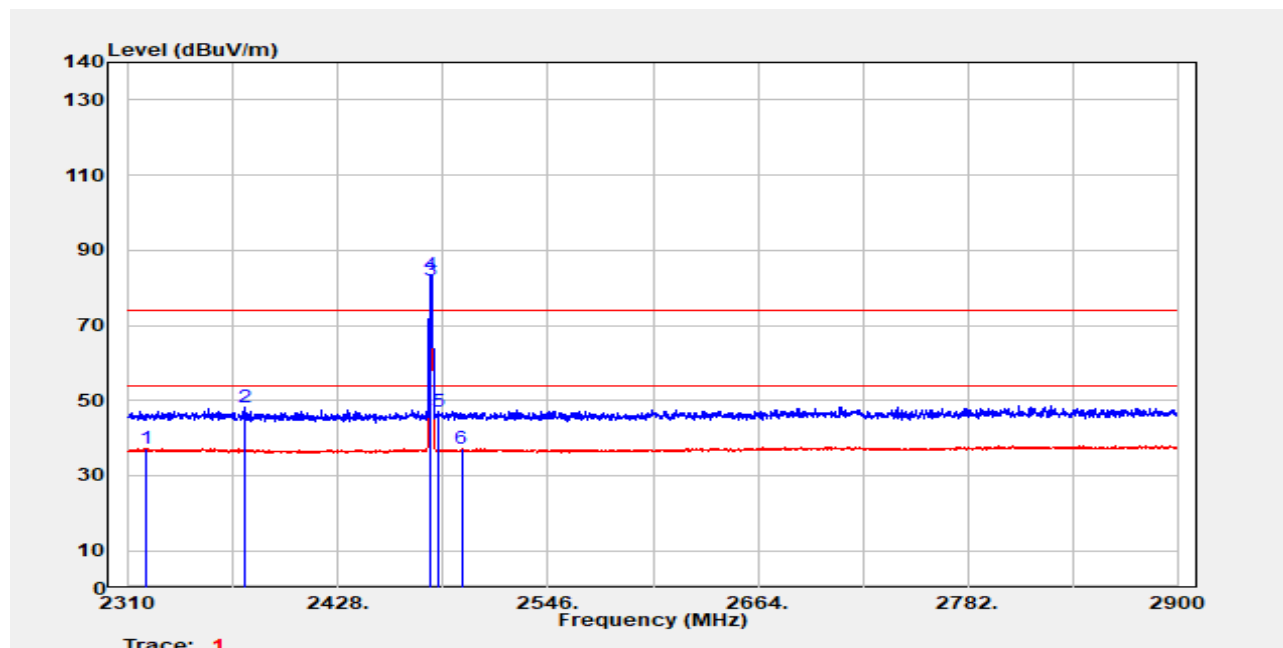
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2480 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/58%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
|         | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz     | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 2319.84 | Average  | 40.46         | -3.37  | 37.09  | 54.00  | -16.91 |
| 2375.51 | Peak     | 51.64         | -3.60  | 48.04  | 74.00  | -25.96 |
| 2480.17 | Average  | 85.61         | -3.55  | 82.06  | -      | -      |
| 2480.17 | Peak     | 86.87         | -3.55  | 83.32  | -      | -      |
| 2484.31 | Peak     | 50.77         | -3.54  | 47.23  | 74.00  | -26.77 |
| 2497.29 | Average  | 40.49         | -3.49  | 37.00  | 54.00  | -17.00 |

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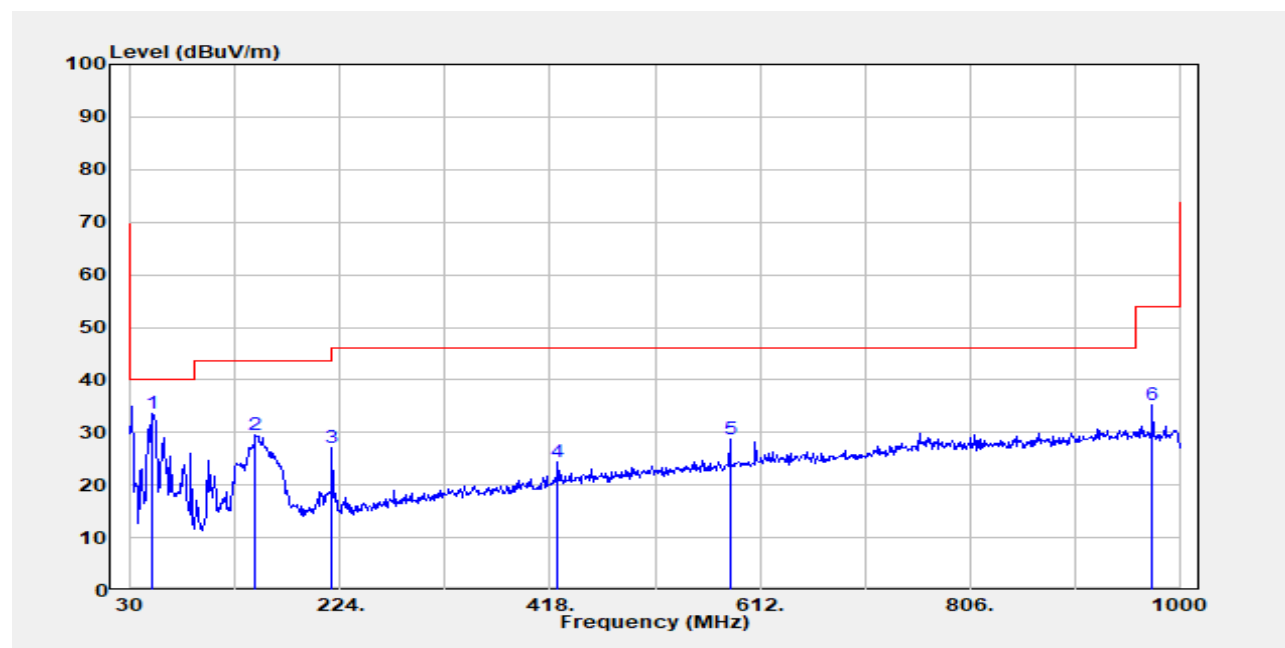
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## 7.6.2 Spurious Emission

(Tx)

Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



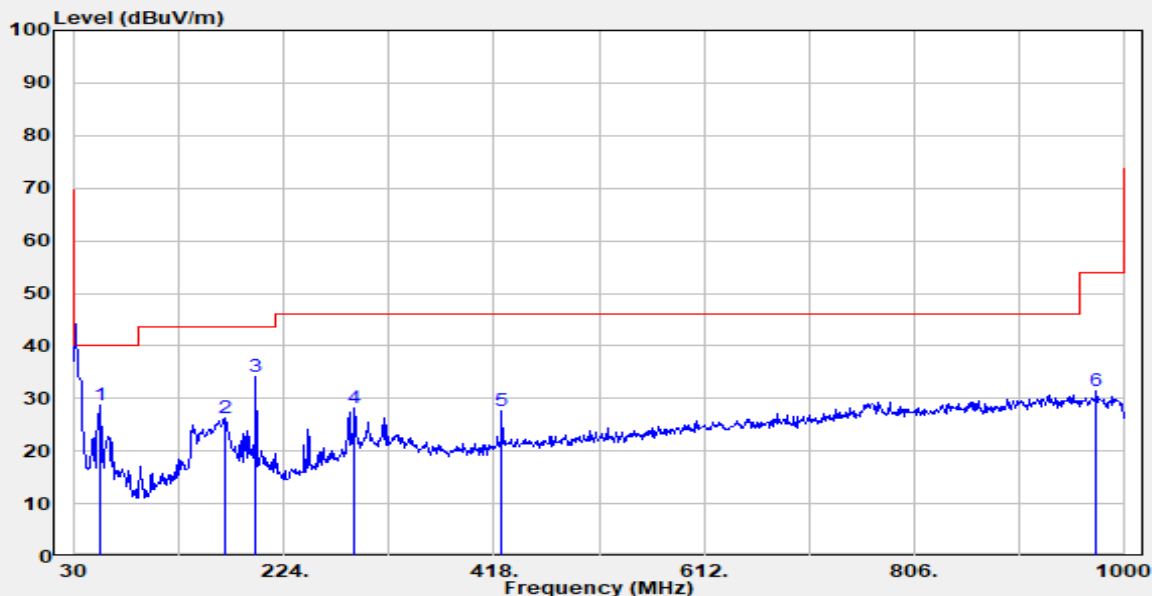
| Freq.  | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|--------|----------|---------------|--------|--------|--------|--------|
| MHz    | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz    | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 50.37  | Peak     | 45.22         | -11.69 | 33.53  | 40.00  | -6.47  |
| 145.43 | Peak     | 41.55         | -12.14 | 29.41  | 43.50  | -14.09 |
| 216.24 | Peak     | 41.68         | -14.54 | 27.14  | 46.00  | -18.86 |
| 424.79 | Peak     | 31.83         | -7.32  | 24.51  | 46.00  | -21.49 |
| 584.84 | Peak     | 32.57         | -3.93  | 28.64  | 46.00  | -17.36 |
| 974.78 | Peak     | 33.46         | 1.67   | 35.13  | 54.00  | -18.87 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.  | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|--------|----------|---------------|--------|--------|--------|--------|
| MHz    | Mode     | Reading Level |        | FS     | @3m    |        |
|        | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 53.28  | Peak     | 40.34         | -11.74 | 28.60  | 40.00  | -11.40 |
| 169.68 | Peak     | 38.31         | -12.09 | 26.22  | 43.50  | -17.28 |
| 197.81 | Peak     | 48.88         | -14.79 | 34.09  | 43.50  | -9.41  |
| 288.99 | Peak     | 39.25         | -11.19 | 28.06  | 46.00  | -17.94 |
| 424.79 | Peak     | 35.04         | -7.32  | 27.72  | 46.00  | -18.28 |
| 974.78 | Peak     | 29.64         | 1.67   | 31.31  | 54.00  | -22.69 |

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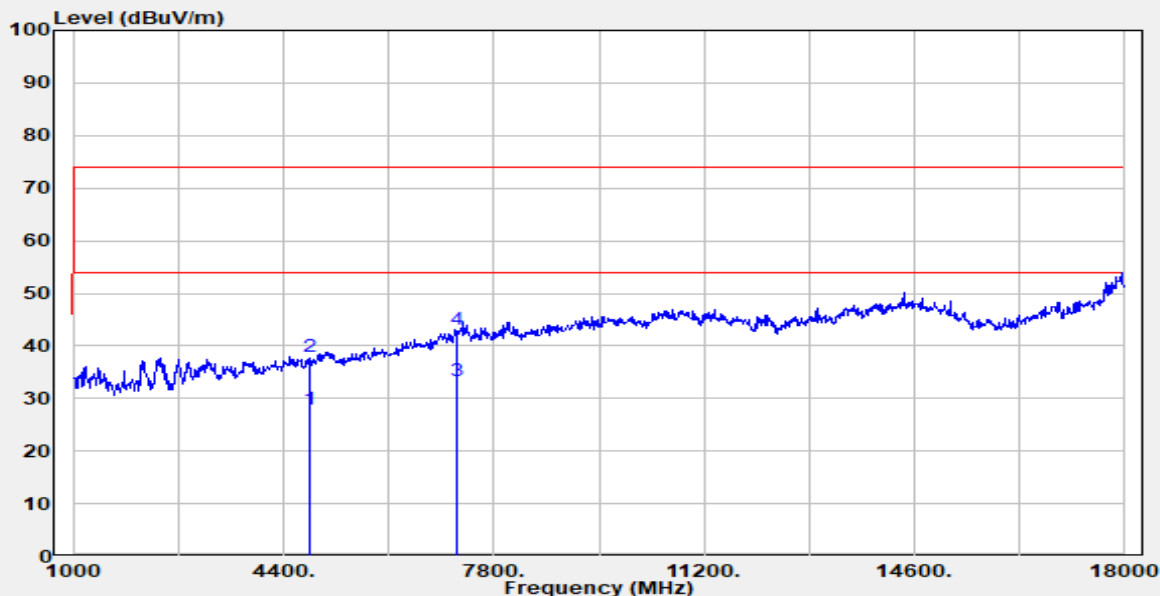
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



| Freq.    | Detector | Spectrum      | Factor | Actual       | Limit        | Margin |
|----------|----------|---------------|--------|--------------|--------------|--------|
| MHz      | Mode     | Reading Level |        | FS           | @3m          |        |
|          | PK/QP/AV | dB $\mu$ V    | dB     | dB $\mu$ V/m | dB $\mu$ V/m | dB     |
| 4804.000 | Average  | 26.73         | 1.06   | 27.79        | 54.00        | -26.21 |
| 4804.000 | Peak     | 36.94         | 1.06   | 38.00        | 74.00        | -36.00 |
| 7206.000 | Average  | 25.75         | 7.49   | 33.24        | 54.00        | -20.76 |
| 7206.000 | Peak     | 35.48         | 7.49   | 42.97        | 74.00        | -31.03 |

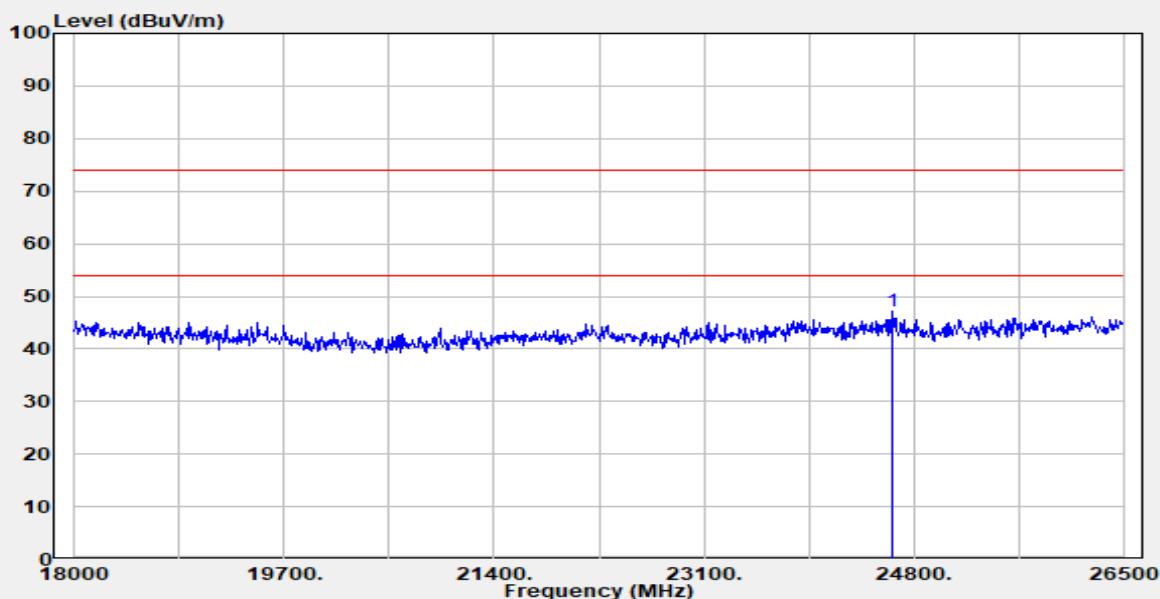
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



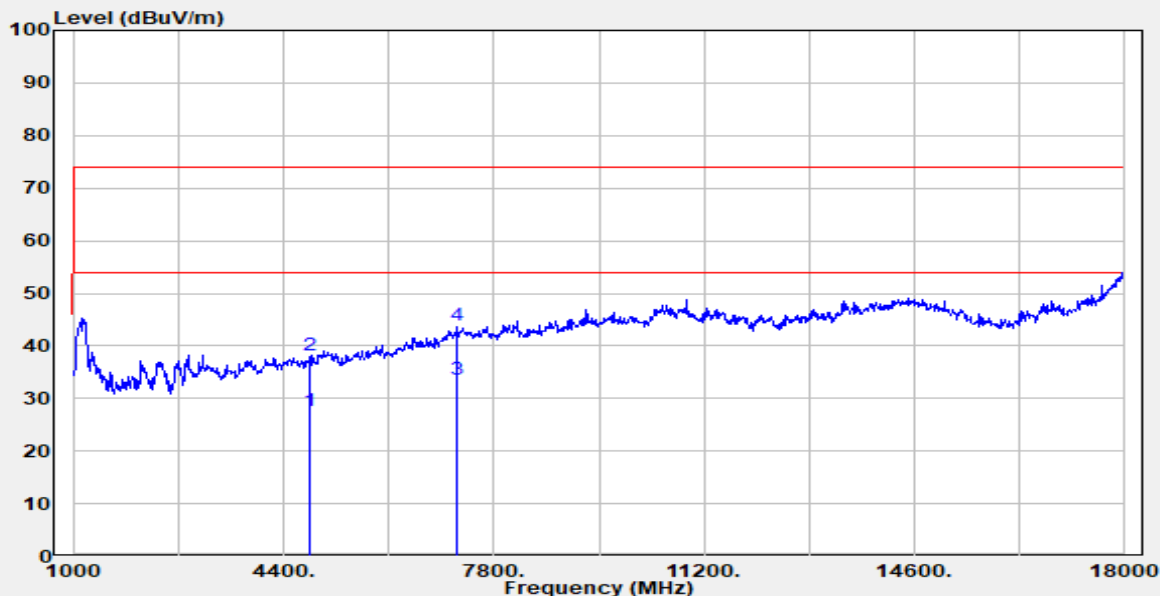
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 24630.00 | Peak     | 39.29         | 7.77   | 47.06  | 74.00  | -26.94 |

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Report Number :TERF2603000844E2  
Operation Mode :BLE 2M  
Test Frequency :2402 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC C  
Test Date :2026-05-04  
Temp./Humi. :23.2°C/61%  
Antenna Pol. :Horizontal  
Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4804.00 | Average  | 26.66         | 1.05   | 27.71  | 54.00  | -26.29 |
| 4804.00 | Peak     | 37.18         | 1.05   | 38.23  | 74.00  | -35.77 |
| 7206.00 | Average  | 25.98         | 7.49   | 33.47  | 54.00  | -20.53 |
| 7206.00 | Peak     | 36.48         | 7.49   | 43.97  | 74.00  | -30.03 |

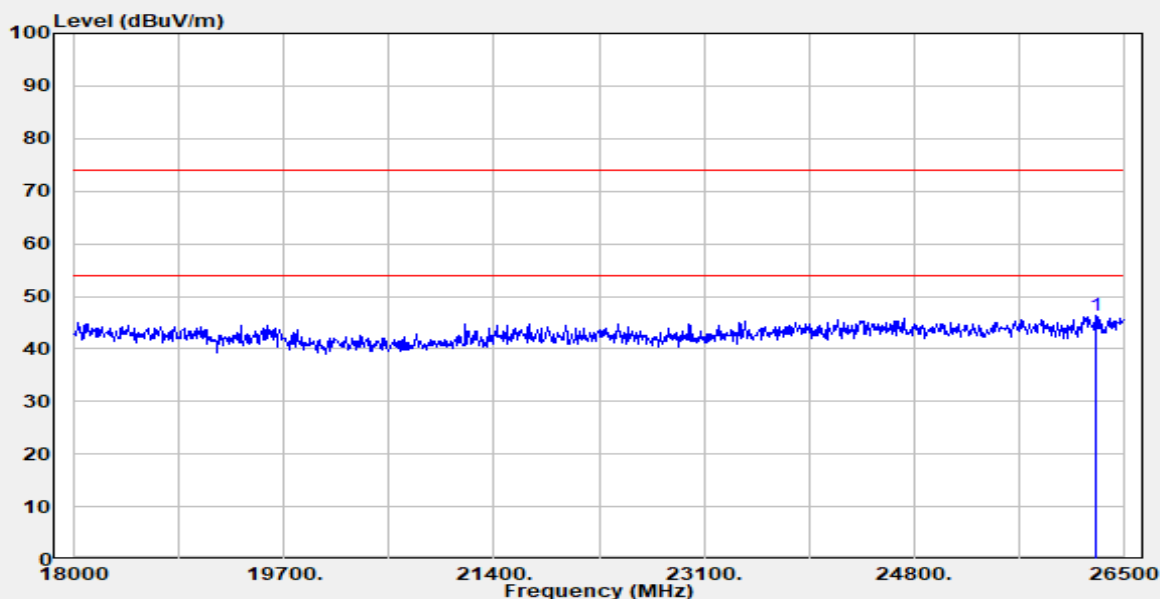
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



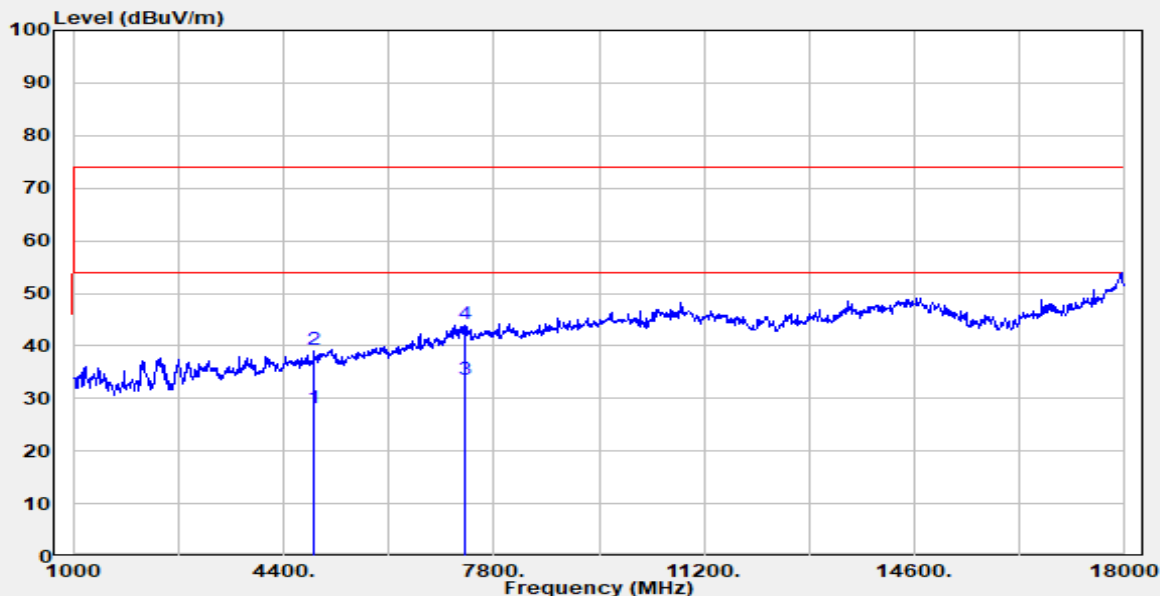
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 26270.50 | Peak     | 38.28         | 8.17   | 46.45  | 74.00  | -27.55 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4884.00 | Average  | 27.16         | 1.15   | 28.31  | 54.00  | -25.69 |
| 4884.00 | Peak     | 38.15         | 1.15   | 39.30  | 74.00  | -34.70 |
| 7326.00 | Average  | 25.62         | 7.97   | 33.59  | 54.00  | -20.41 |
| 7326.00 | Peak     | 36.32         | 7.97   | 44.29  | 74.00  | -29.71 |

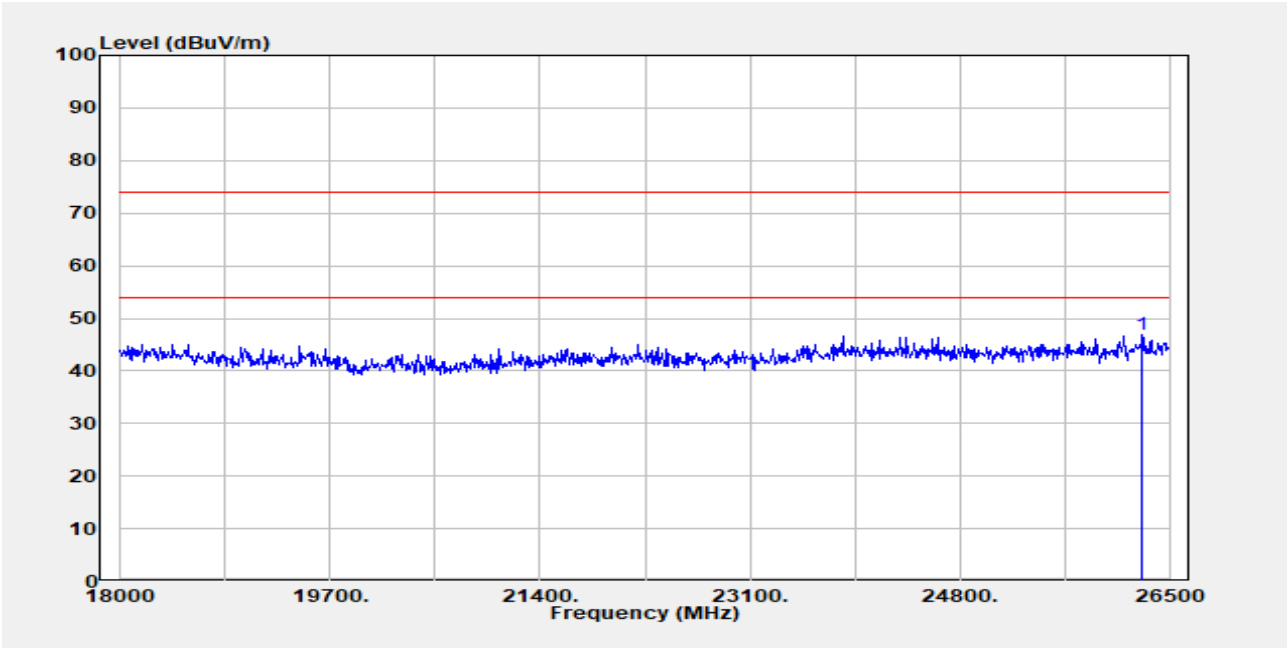
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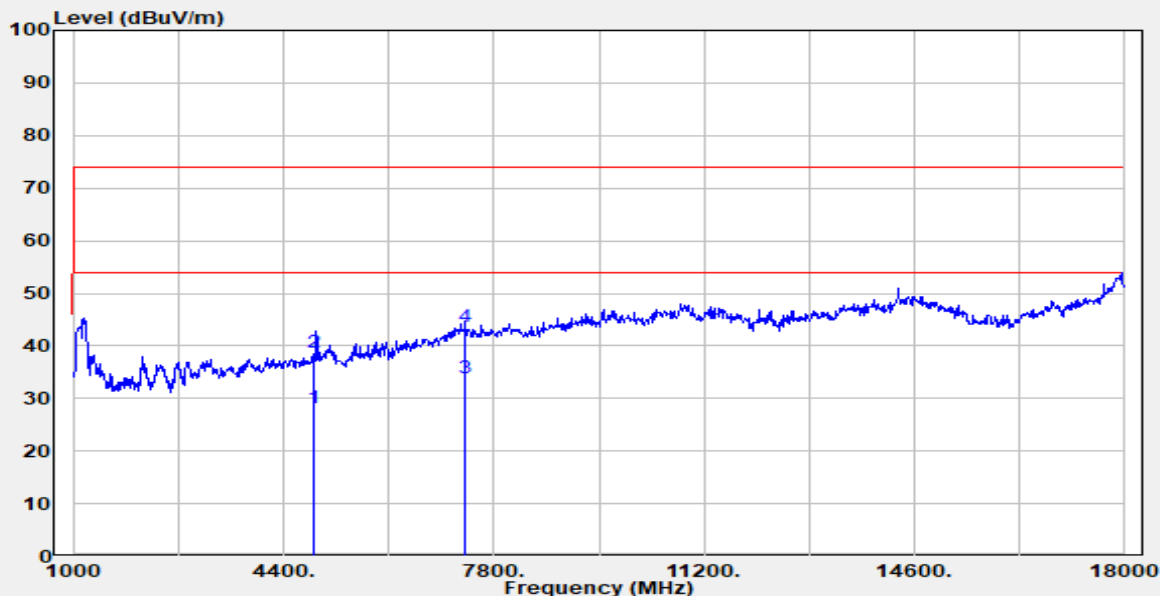
|                |                   |              |              |
|----------------|-------------------|--------------|--------------|
| Report Number  | :TERF2603000844E2 | Test Site    | :SAC C       |
| Operation Mode | :BLE 2M           | Test Date    | :2026-05-06  |
| Test Frequency | :2442 MHz         | Temp./Humi.  | :23.2°C/61%  |
| Test Mode      | :Tx               | Antenna Pol. | :Vertical    |
| EUT Pol        | :E2 Plane         | Engineer     | :Wilson Wang |



| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 26279.00 | Peak     | 38.58         | 8.19   | 46.77  | 74.00  | -27.23 |

Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4884.00 | Average  | 27.11         | 1.15   | 28.26  | 54.00  | -25.74 |
| 4884.00 | Peak     | 37.68         | 1.15   | 38.83  | 74.00  | -35.17 |
| 7326.00 | Average  | 25.77         | 7.97   | 33.74  | 54.00  | -20.26 |
| 7326.00 | Peak     | 35.67         | 7.97   | 43.64  | 74.00  | -30.36 |

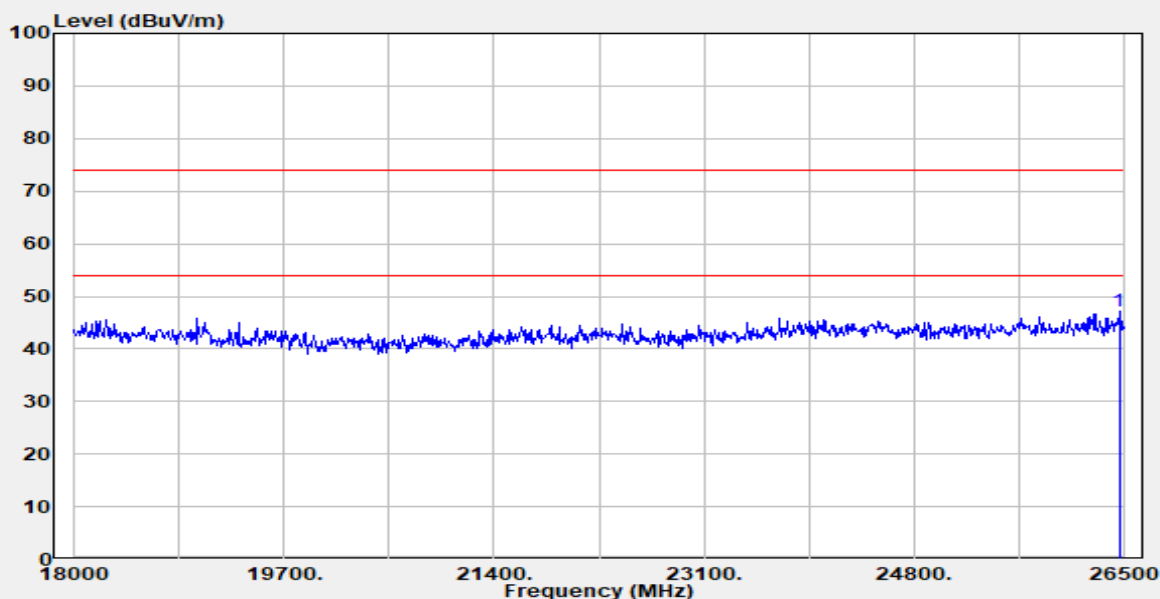
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 Operation Mode :BLE 2M  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



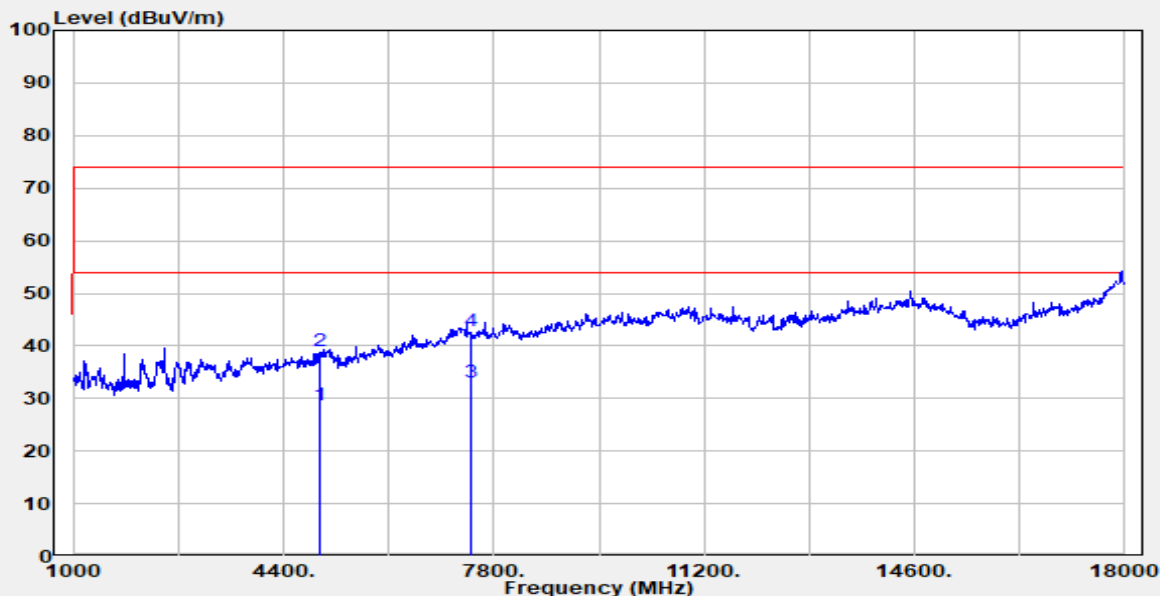
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
|          | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz      | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 26466.00 | Peak     | 38.52         | 8.63   | 47.15  | 74.00  | -26.85 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4960.00 | Average  | 27.35         | 1.45   | 28.80  | 54.00  | -25.20 |
| 4960.00 | Peak     | 37.67         | 1.45   | 39.12  | 74.00  | -34.88 |
| 7440.00 | Average  | 25.19         | 7.79   | 32.98  | 54.00  | -21.02 |
| 7440.00 | Peak     | 35.09         | 7.79   | 42.88  | 74.00  | -31.12 |

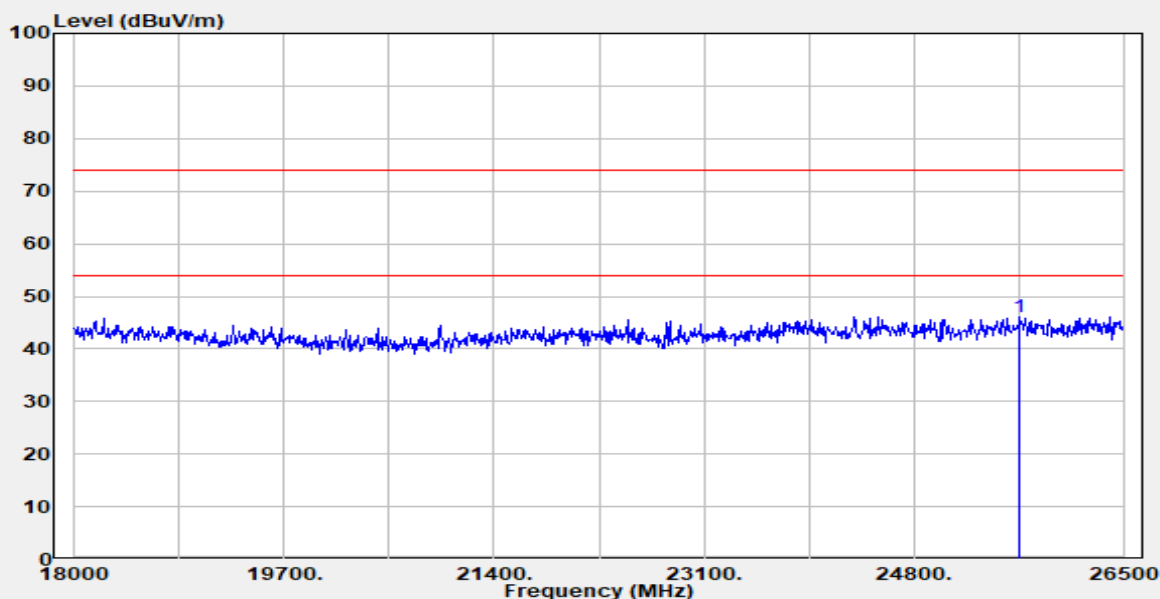
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



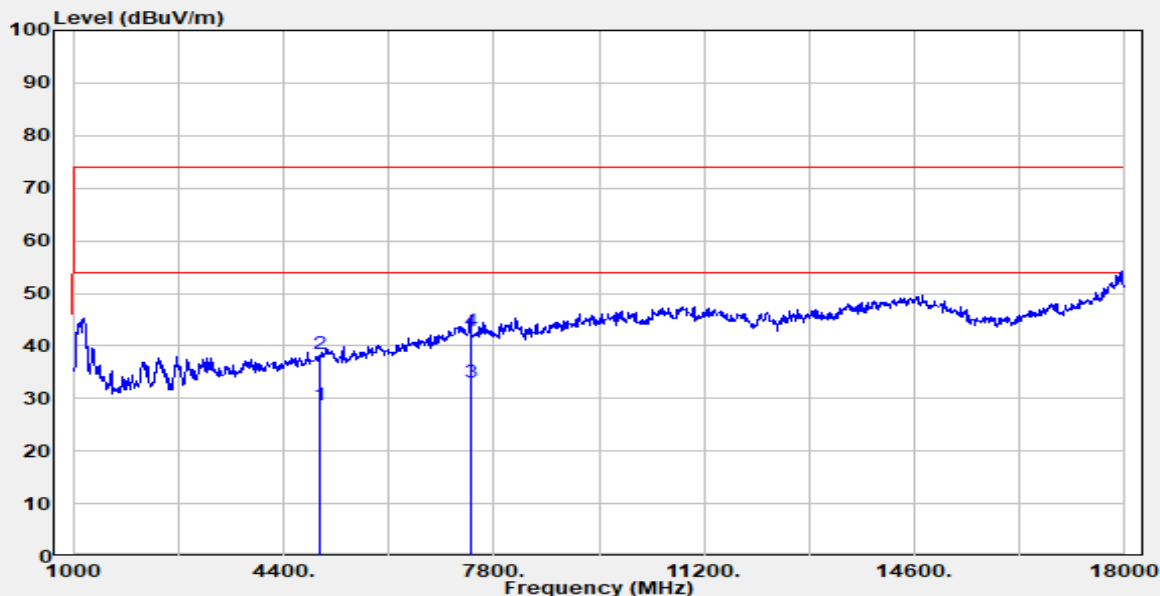
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
|          | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz      | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 25658.50 | Peak     | 38.54         | 7.63   | 46.17  | 74.00  | -27.83 |

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 Operation Mode :BLE 2M  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-04  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4960.00 | Average  | 27.20         | 1.45   | 28.65  | 54.00  | -25.35 |
| 4960.00 | Peak     | 36.95         | 1.45   | 38.40  | 74.00  | -35.60 |
| 7440.00 | Average  | 25.28         | 7.79   | 33.07  | 54.00  | -20.93 |
| 7440.00 | Peak     | 35.09         | 7.79   | 42.88  | 74.00  | -31.12 |

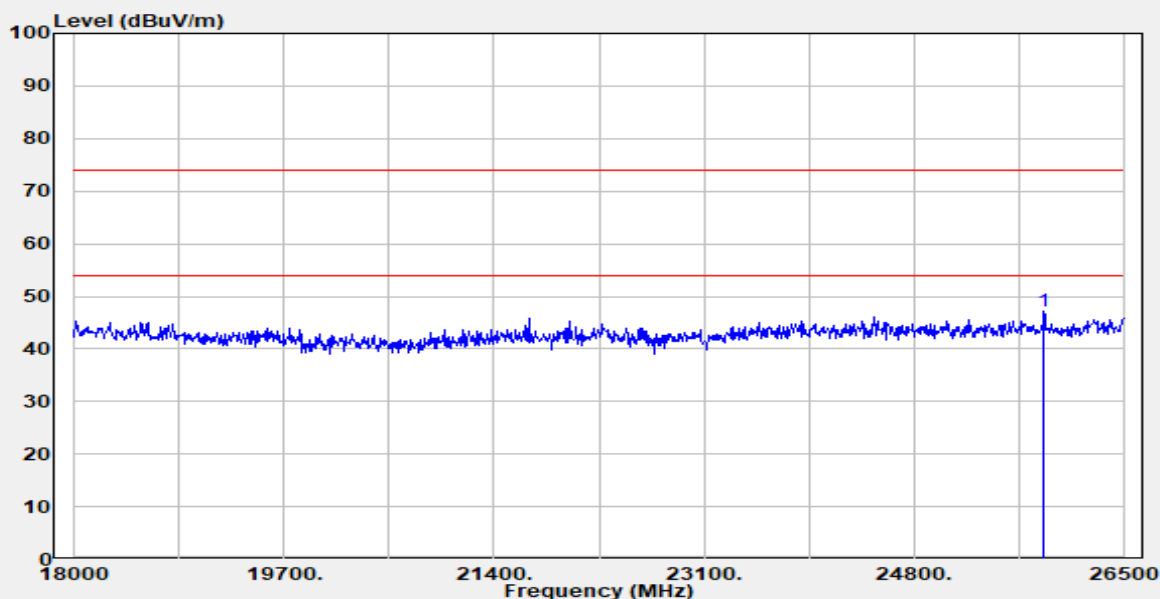
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 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



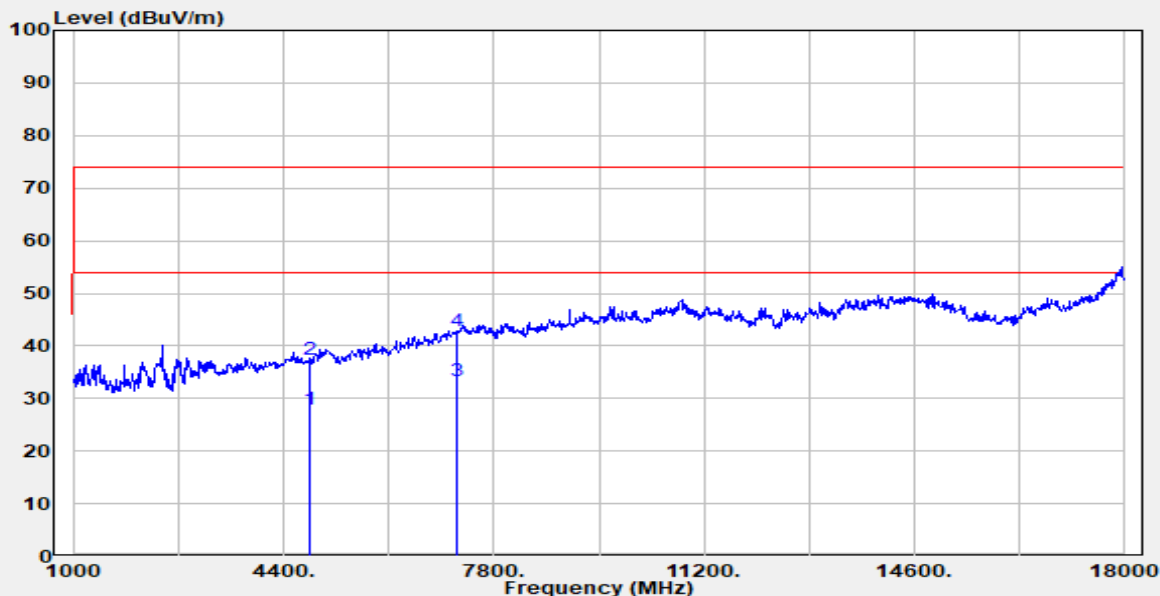
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 25854.00 | Peak     | 39.16         | 7.90   | 47.06  | 74.00  | -26.94 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-05  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4804.00 | Average  | 26.90         | 1.05   | 27.95  | 54.00  | -26.05 |
| 4804.00 | Peak     | 36.23         | 1.05   | 37.28  | 74.00  | -36.72 |
| 7206.00 | Average  | 25.83         | 7.49   | 33.32  | 54.00  | -20.68 |
| 7206.00 | Peak     | 35.33         | 7.49   | 42.82  | 74.00  | -31.18 |

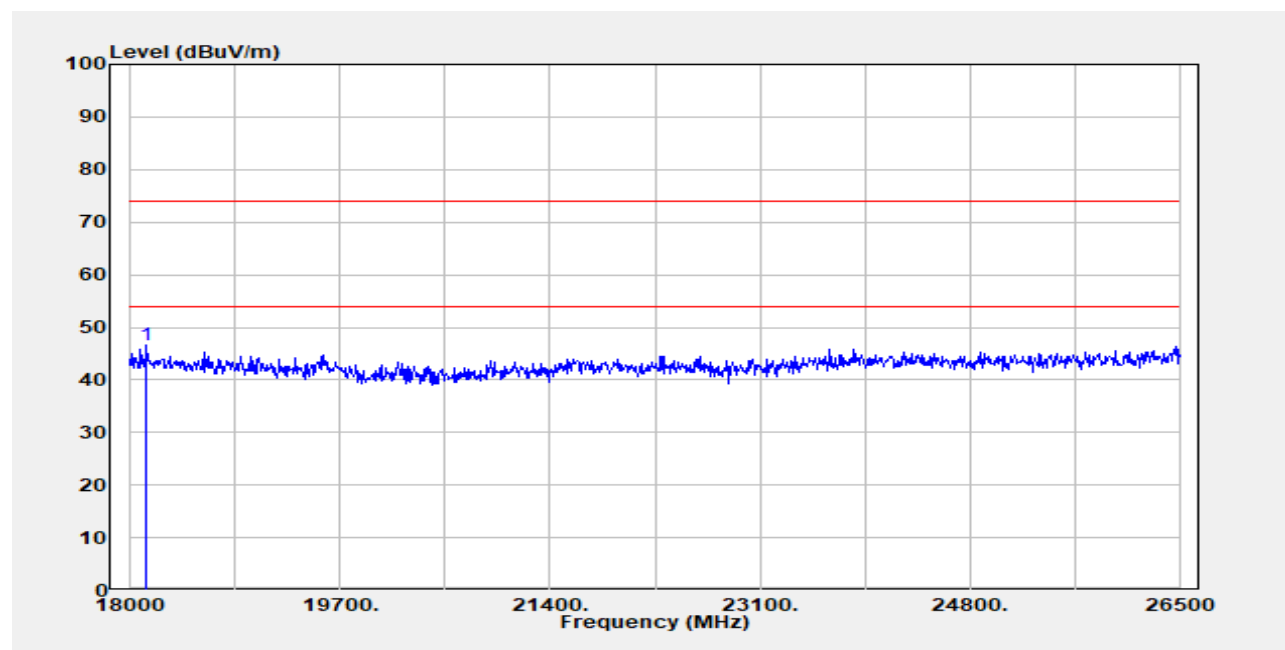
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



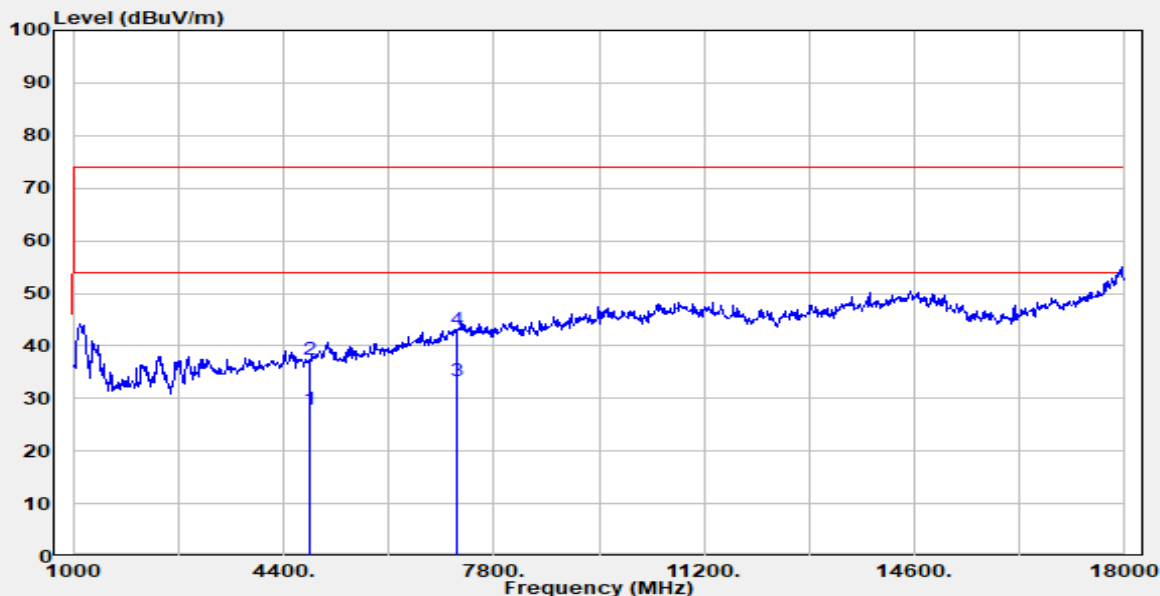
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 18127.50 | Peak     | 44.74         | 1.98   | 46.72  | 74.00  | -27.28 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-05  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4804.00 | Average  | 26.84         | 1.05   | 27.89  | 54.00  | -26.11 |
| 4804.00 | Peak     | 36.43         | 1.05   | 37.48  | 74.00  | -36.52 |
| 7206.00 | Average  | 25.91         | 7.49   | 33.40  | 54.00  | -20.60 |
| 7206.00 | Peak     | 35.70         | 7.49   | 43.19  | 74.00  | -30.81 |

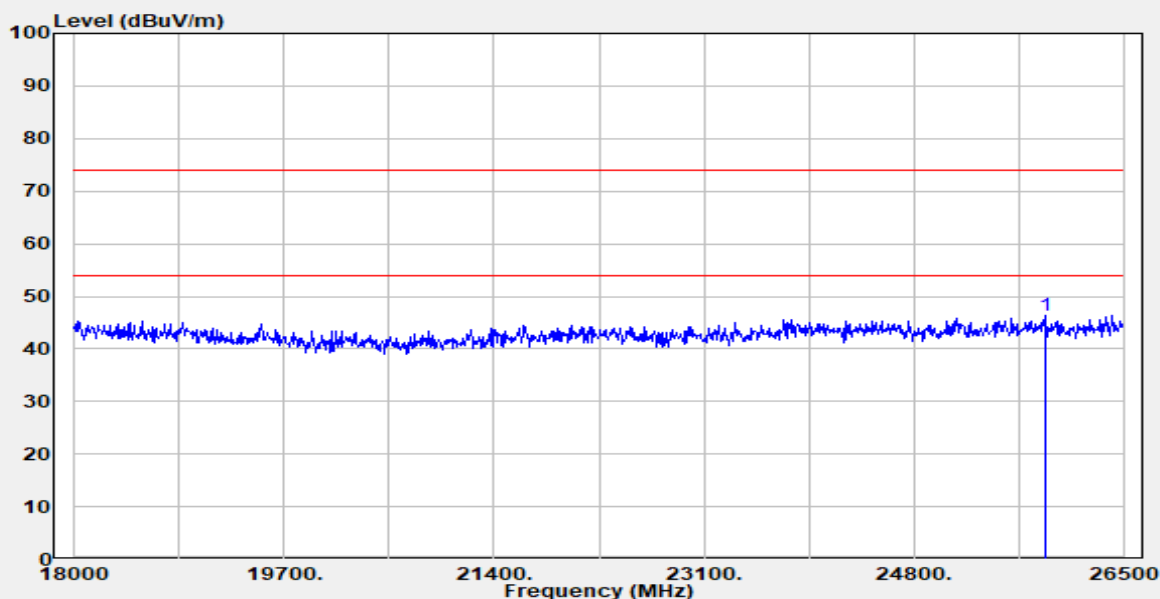
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2402 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



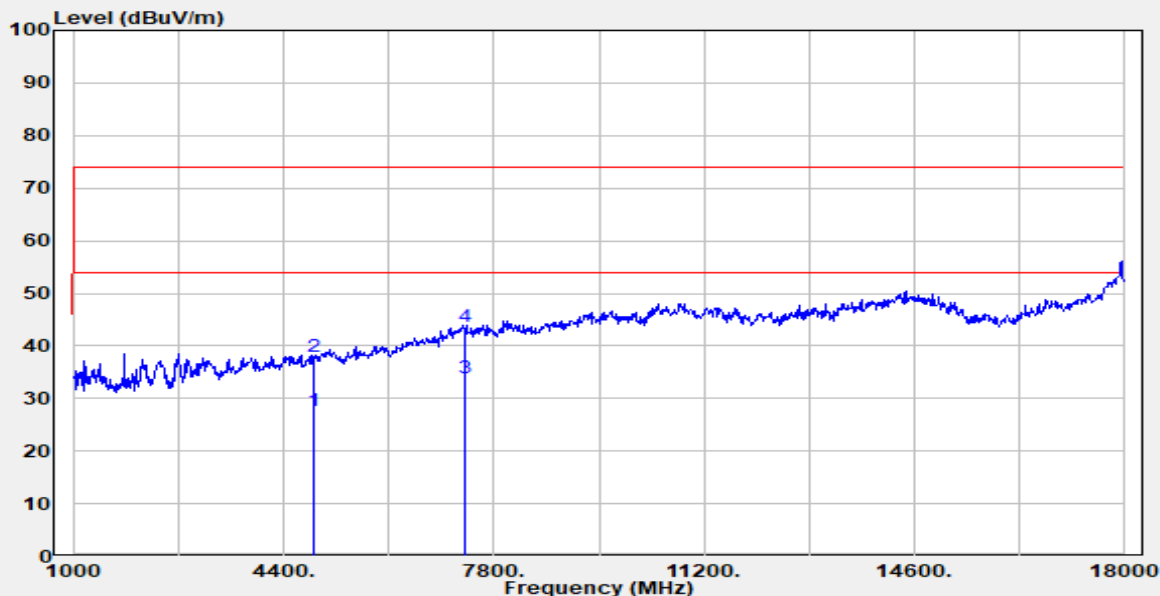
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 25871.00 | Peak     | 38.45         | 7.90   | 46.35  | 74.00  | -27.65 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-05  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



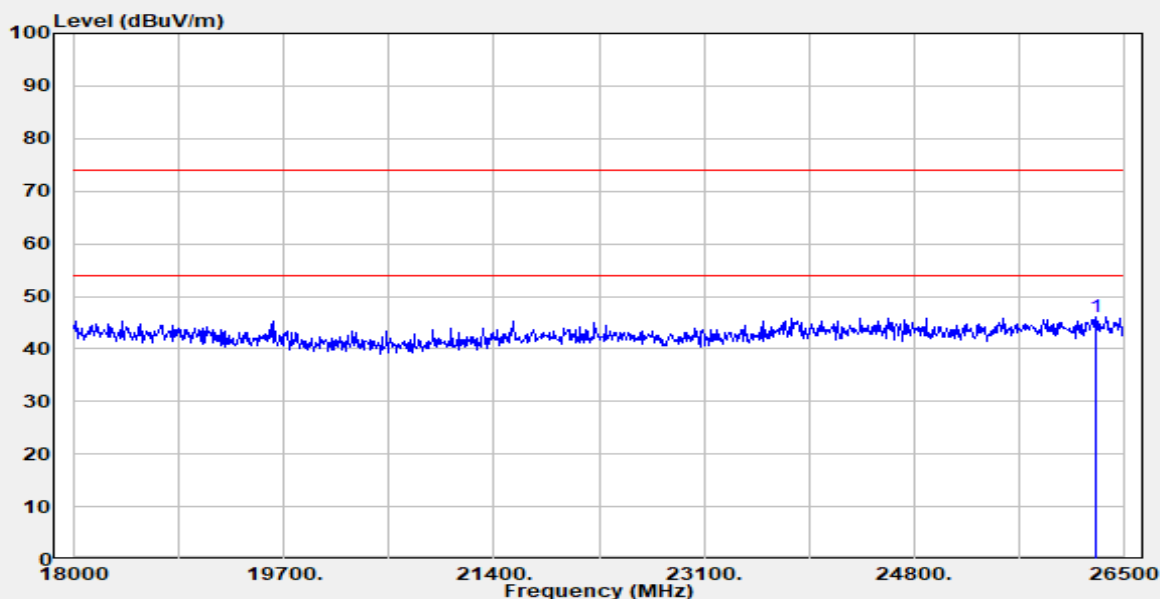
| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4884.00 | Average  | 26.36         | 1.15   | 27.51  | 54.00  | -26.49 |
| 4884.00 | Peak     | 36.72         | 1.15   | 37.87  | 74.00  | -36.13 |
| 7326.00 | Average  | 25.78         | 7.97   | 33.75  | 54.00  | -20.25 |
| 7326.00 | Peak     | 35.60         | 7.97   | 43.57  | 74.00  | -30.43 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



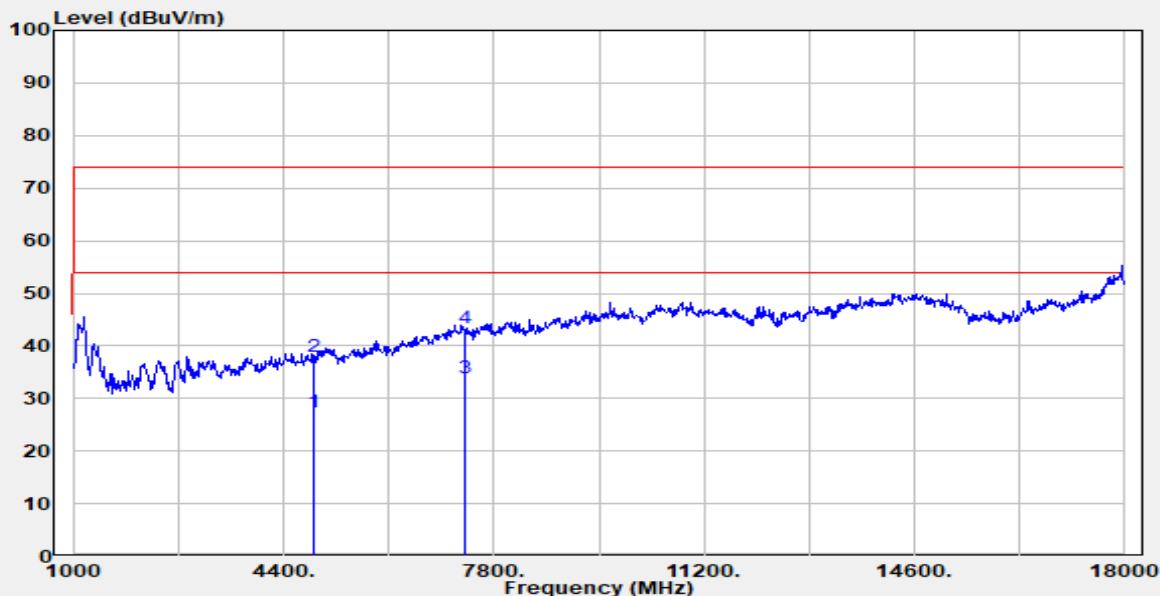
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 26279.00 | Peak     | 37.86         | 8.19   | 46.05  | 74.00  | -27.95 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-05  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4884.00 | Average  | 26.17         | 1.15   | 27.32  | 54.00  | -26.68 |
| 4884.00 | Peak     | 36.81         | 1.15   | 37.96  | 74.00  | -36.04 |
| 7326.00 | Average  | 25.95         | 7.97   | 33.92  | 54.00  | -20.08 |
| 7326.00 | Peak     | 35.41         | 7.97   | 43.38  | 74.00  | -30.62 |

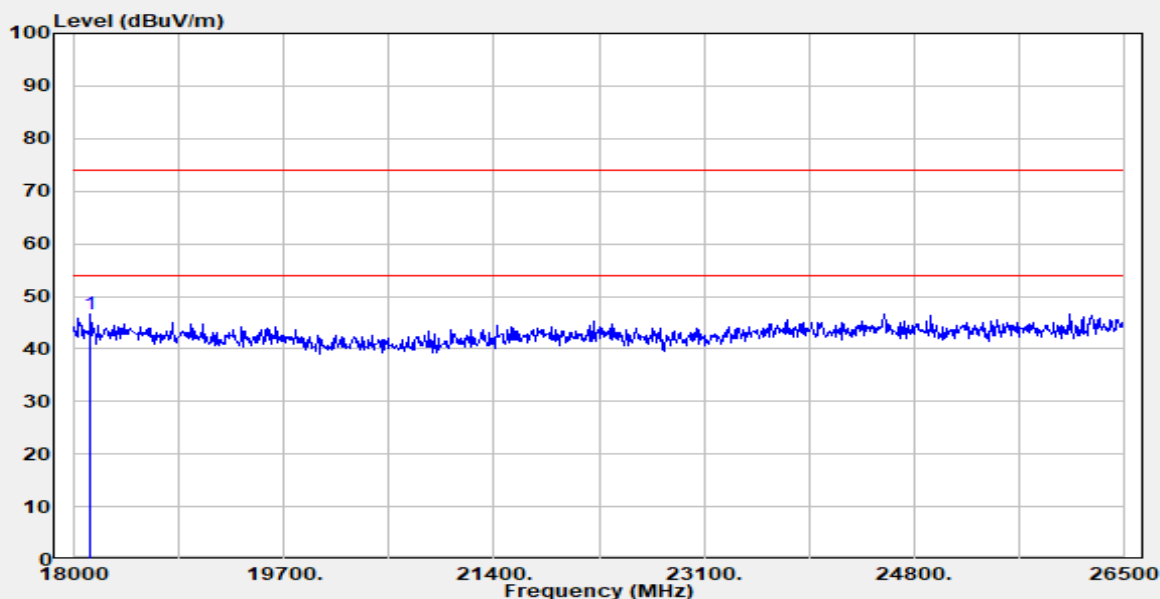
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2442 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



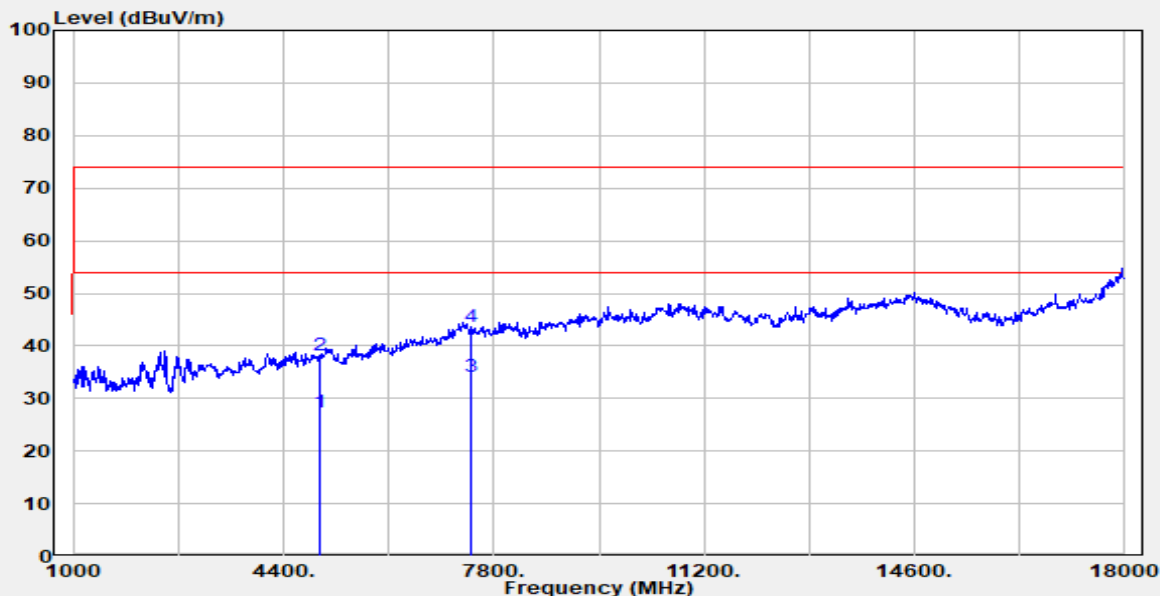
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 18127.50 | Peak     | 44.68         | 1.98   | 46.66  | 74.00  | -27.34 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-05  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4960.00 | Average  | 26.03         | 1.45   | 27.48  | 54.00  | -26.52 |
| 4960.00 | Peak     | 36.70         | 1.45   | 38.15  | 74.00  | -35.85 |
| 7440.00 | Average  | 26.26         | 7.79   | 34.05  | 54.00  | -19.95 |
| 7440.00 | Peak     | 35.91         | 7.79   | 43.70  | 74.00  | -30.30 |

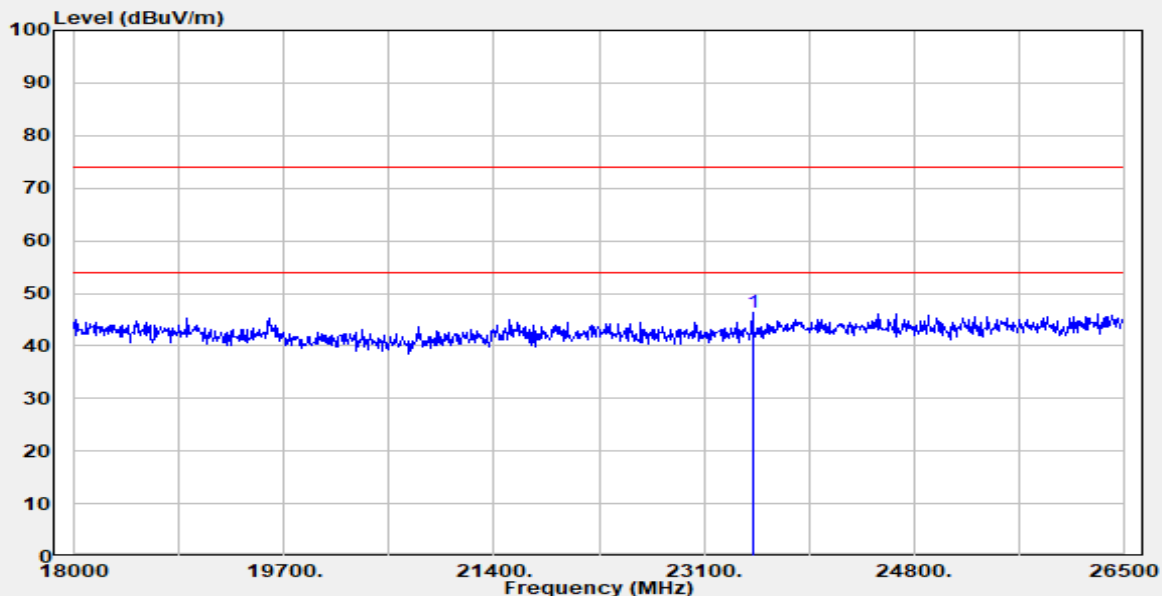
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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-06  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Vertical  
 Engineer :Wilson Wang



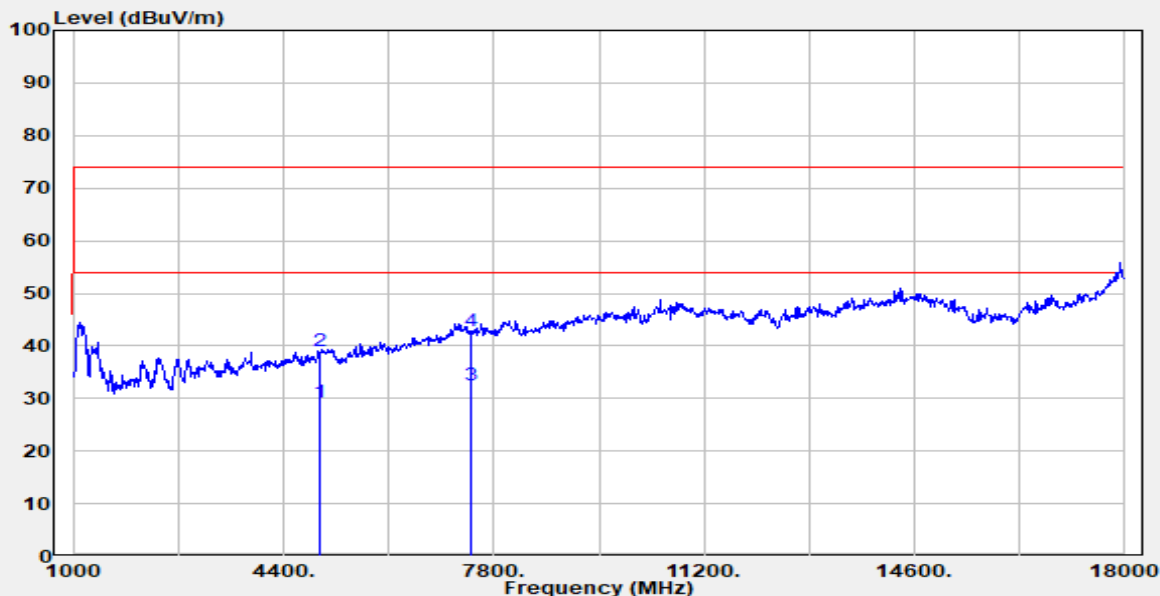
| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
| MHz      | Mode     | Reading Level |        | FS     | @3m    |        |
|          | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 23499.50 | Peak     | 39.71         | 6.60   | 46.31  | 74.00  | -27.69 |

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Report Number :TERF2603000844E2  
 Operation Mode :BLE 125K  
 Test Frequency :2480 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC C  
 Test Date :2026-05-05  
 Temp./Humi. :23.2°C/61%  
 Antenna Pol. :Horizontal  
 Engineer :Wilson Wang



| Freq.   | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | Mode     | Reading Level |        | FS     | @3m    |        |
|         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 4960.00 | Average  | 27.92         | 1.45   | 29.37  | 54.00  | -24.63 |
| 4960.00 | Peak     | 37.61         | 1.45   | 39.06  | 74.00  | -34.94 |
| 7440.00 | Average  | 24.73         | 7.79   | 32.52  | 54.00  | -21.48 |
| 7440.00 | Peak     | 34.95         | 7.79   | 42.74  | 74.00  | -31.26 |

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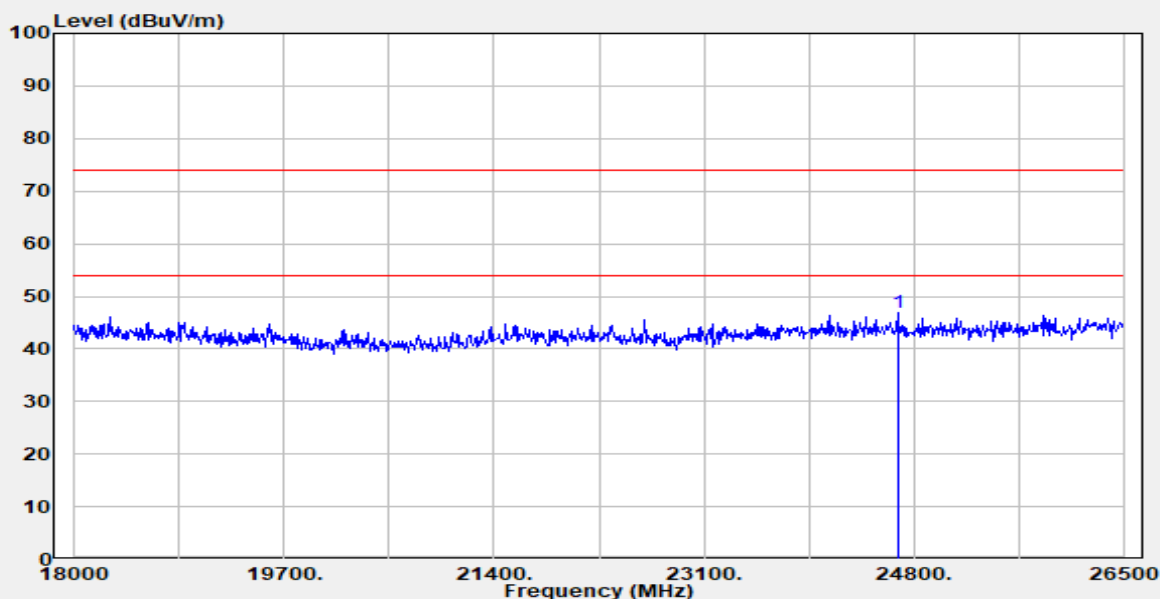
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Report Number :TERF2603000844E2  
Operation Mode :BLE 125K  
Test Frequency :2480 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC C  
Test Date :2026-05-06  
Temp./Humi. :23.2°C/61%  
Antenna Pol. :Horizontal  
Engineer :Wilson Wang



| Freq.    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|----------|---------------|--------|--------|--------|--------|
|          | Mode     | Reading Level |        | FS     | @3m    |        |
| MHz      | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 24672.50 | Peak     | 39.21         | 7.68   | 46.89  | 74.00  | -27.11 |

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## 7.7 AC Power Line Conducted Emission

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closest to the limit.

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[www.sgs.com.tw](http://www.sgs.com.tw)

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Report Number :TERF2603000844E2

Test Mode :BLE

Power :120V/60Hz

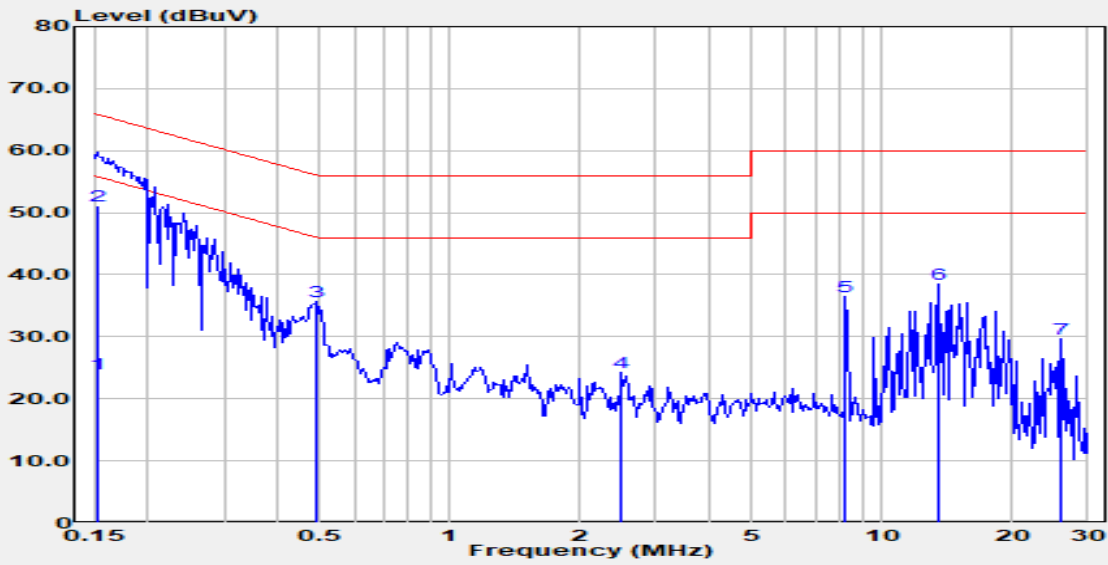
Probe :L1

Test Site :Conduction C

Test Date :2026-05-07

Temp./Humi. :23.7°C/58%

Engineer :Wilson Wang



| Freq.  | Detector      | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------------|----------|--------|--------|-------|--------|
| Mode   | Reading Level |          |        | FS     |       |        |
| MHz    | PK/QP/AV      | dBμV     | dB     | dBμV   | dBμV  | dB     |
| 0.153  | Average       | 13.40    | 10.65  | 24.05  | 55.86 | -31.81 |
| 0.153  | QP            | 40.50    | 10.65  | 51.15  | 65.86 | -14.71 |
| 0.492  | Peak          | 25.03    | 10.62  | 35.65  | 56.13 | -20.48 |
| 2.493  | Peak          | 13.42    | 10.81  | 24.24  | 56.00 | -31.76 |
| 8.253  | Peak          | 25.55    | 10.96  | 36.51  | 60.00 | -23.49 |
| 13.620 | Peak          | 27.50    | 11.05  | 38.55  | 60.00 | -21.45 |
| 25.968 | Peak          | 18.39    | 11.30  | 29.69  | 60.00 | -30.31 |

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Report Number :TERF2603000844E2

Test Site :Conduction C

Test Mode :BLE

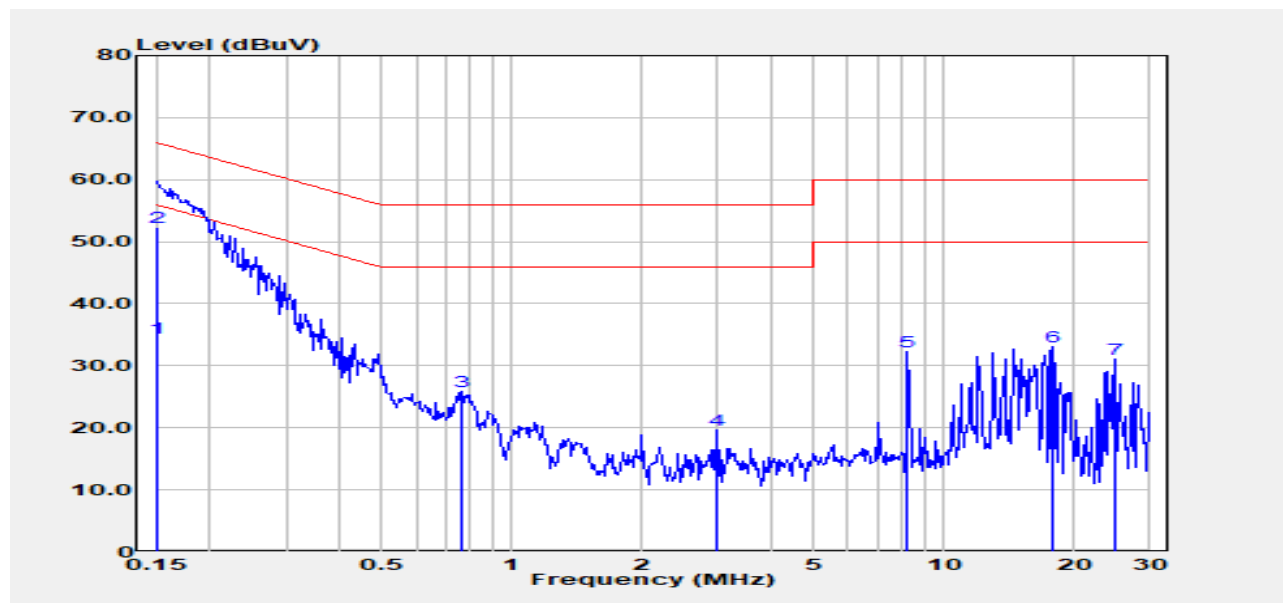
Test Date :2026-05-07

Power :120V/60Hz

Temp./Humi. :23.7°C/58%

Probe :N

Engineer :Wilson Wang



| Freq.  | Detector | Spectrum      | Factor | Actual | Limit | Margin |
|--------|----------|---------------|--------|--------|-------|--------|
| Mode   |          | Reading Level |        | FS     |       |        |
| MHz    | PK/QP/AV | dBμV          | dB     | dBμV   | dBμV  | dB     |
| 0.150  | Average  | 23.80         | 10.66  | 34.46  | 56.00 | -21.54 |
| 0.150  | QP       | 41.60         | 10.66  | 52.26  | 66.00 | -13.74 |
| 0.766  | Peak     | 15.19         | 10.64  | 25.83  | 56.00 | -30.17 |
| 2.979  | Peak     | 8.74          | 10.82  | 19.56  | 56.00 | -36.44 |
| 8.253  | Peak     | 21.28         | 10.95  | 32.23  | 60.00 | -27.77 |
| 17.872 | Peak     | 21.92         | 11.13  | 33.05  | 60.00 | -26.95 |
| 24.888 | Peak     | 19.75         | 11.28  | 31.03  | 60.00 | -28.97 |

~ End of Report ~

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