

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** Acrox Technologies Co., Ltd  
4F., No. 89, Minshan St., Neihu Dist., Taipei City 114, Taiwan,  
R.O.C

**Manufacturer:** Acrox Technologies Co., Ltd  
4F., No. 89, Minshan St., Neihu Dist., Taipei City 114, Taiwan,  
R.O.C

**Product Name:** HP Wireless Keyboard

**Brand Name:** hp

**Model No.:** TPA-A001K

**Model Difference:** N/A

**Report Number:** TERF2404001078E2

**FCC ID** PRDKB60

**IC:** 6180A-KBP

**Date of EUT Received:** March 29, 2024

**Date of Test:** April 19, 2024 ~ June 5, 2024

**Issue Date:** June 19, 2024

Approved By

Jay Lin

## 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 C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.249, ISSED RSS-210.

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 |
|------------------|----------|-------------|---------------|------------|--------|
| TERF2404001078E2 | 00       | Original.   | June 19, 2024 | Susan Lin  |        |
|                  |          |             |               |            |        |
|                  |          |             |               |            |        |
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|                  |          |             |               |            |        |

## Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                                  |                                                      |
|----------------------------------|------------------------------------------------------|
| Product Name:                    | HP Wireless Keyboard                                 |
| Brand Name:                      | hp                                                   |
| Model No.:                       | TPA-A001K                                            |
| Model Difference:                | N/A                                                  |
| Hardware Version:                | N/A                                                  |
| Firmware Version:                | N/A                                                  |
| EUT Series No.:                  | 20240426001                                          |
| Power Supply:                    | 3.8Vdc from Super capacitor<br>or 5Vdc from USB Port |
| Test Software<br>(Name/Version): | default                                              |

### 1.2 RF Specification

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Radio Technology: | 2.4GHz Short Range Radio                              |
| Frequency Range:  | 2405 – 2476MHz                                        |
| Channel number:   | 12 channels                                           |
| Modulation type:  | GFSK                                                  |
| Transmit Power:   | 90.08 dBuV/m at 3m (Avg)<br>90.80 dBuV/m at 3m (Peak) |

### 1.3 Antenna Designation

| Antenna Type | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|-------------|-------------------------|
| PCB          | 2405-2476   | -0.61                   |

**Note:** Antenna information is provided by the applicant.

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.249

RSS-210 issue 10 Dec. 2019 Amendment (Apr. 2020)

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

## 1.5 Test Facility

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

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

## 1.6 Special Accessories

There are no special accessories used while test was conducted.

## 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 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.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### 2.4.1 Radiated Emission Test Sites 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.

### 2.4.2 For all conducted test items:

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.

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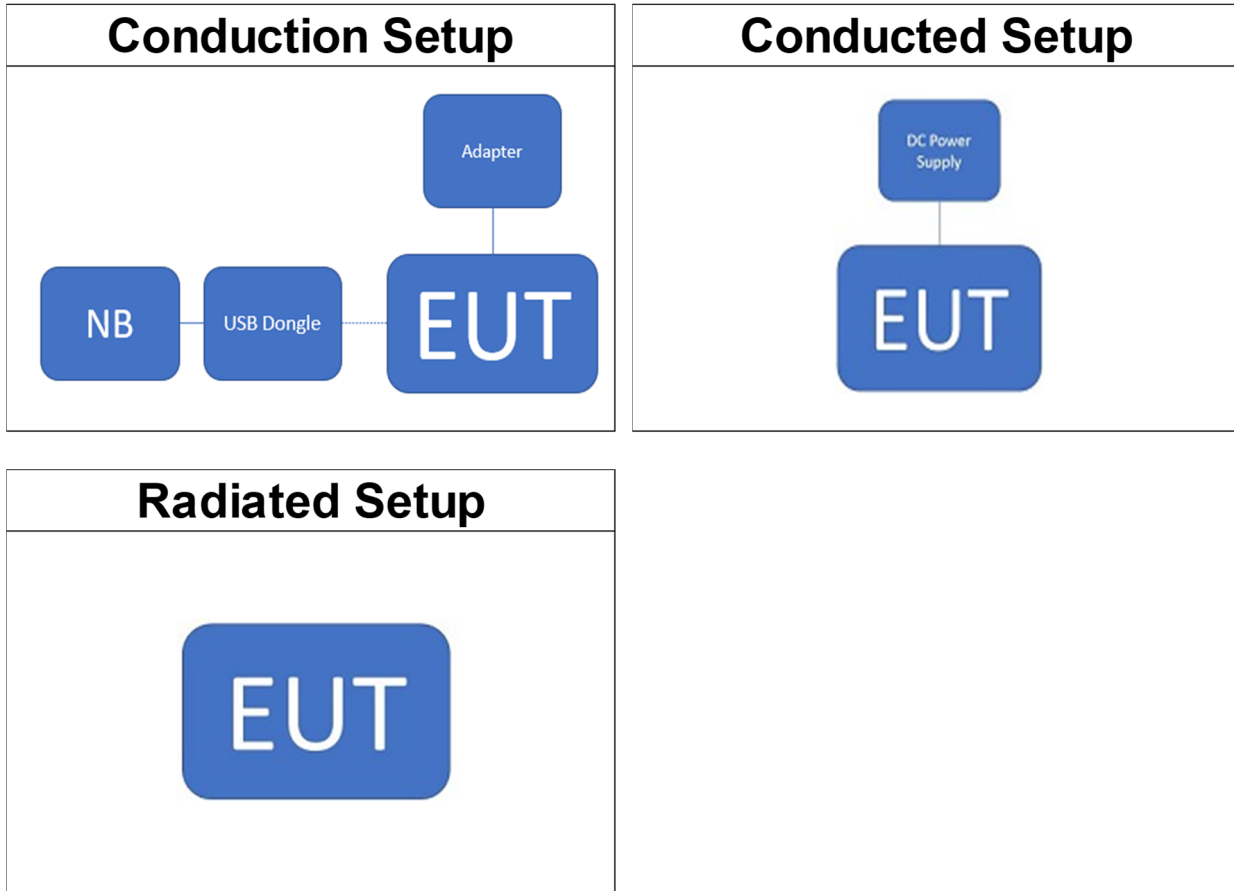
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## 2.5 Test Configuration



## 2.6 Control Unit(s)

| AC Power-Line Conducted Emission Test Site: Conduction C |        |              |               |           |          |
|----------------------------------------------------------|--------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE                                           | MFR    | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Notebook                                                 | Lenovo | L480         | P0002332      | N/A       | N/A      |
| USB Cable                                                | ACROX  | USBC         | N/A           | N/A       | N/A      |
| Adapter                                                  | Lapo   | WT-02CA      | N/A           | N/A       | N/A      |

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### 3 SUMMARY OF TEST RESULTS

| FCC Rules                           | ISED Rules                                        | Description Of Test              | Result    |
|-------------------------------------|---------------------------------------------------|----------------------------------|-----------|
| §15.207(a)                          | RSS-Gen §8.8                                      | AC Power Line Conducted Emission | Compliant |
| §15.205<br>§15.249(a)(e)<br>§15.209 | RSS-210 §B.10<br>RSS-Gen § 8.9,<br>RSS-Gen § 8.10 | Radiated Emission                | Compliant |
| §15.215(c)                          | RSS-Gen § 6.7                                     | Emission Bandwidth               | Compliant |
| §15.203                             | N/A                                               | Antenna Requirement              | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

| Channel | Frequency(MHz) |
|---------|----------------|
| 0       | 2405           |
| 1       | 2407           |
| 2       | 2408           |
| 3       | 2422           |
| 4       | 2423           |
| 5       | 2427           |
| 6       | 2447           |
| 7       | 2451           |
| 8       | 2452           |
| 9       | 2473           |
| 10      | 2474           |
| 11      | 2476           |

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## 5 THE WORST TEST MODES AND CHANNEL DETAILS

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

### RADIATED EMISSION TEST:

| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) |                   |                |
|-----------------------------------------------|-------------------|----------------|
| MODE                                          | AVAILABLE CHANNEL | TESTED CHANNEL |
| 2.4GHz                                        | 0 to 11           | 6              |
| TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz) |                   |                |
| MODE                                          | AVAILABLE CHANNEL | TESTED CHANNEL |
| 2.4GHz                                        | 0 to 11           | 0,6,11         |

**Note:** The field strength of radiated 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.

### ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST |                   |                  |            |                  |              |
|----------------|-------------------|------------------|------------|------------------|--------------|
| MODE           | AVAILABLE CHANNEL | TESTED FREQUENCY | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 2.4G           | 0~11              | 2405, 2447, 2476 | GFSK       | N/A              | MAIN         |

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## 6 MEASUREMENT UNCERTAINTY

| Test Items                       | Uncertainty |
|----------------------------------|-------------|
| AC Power Line Conducted Emission | +/- 1.54 dB |
| Emission Bandwidth               | +/- 1.38 Hz |
| Conducted emission measurement   | +/- 0.77 dB |
| Temperature                      | +/- 0.6 °C  |
| Humidity                         | +/- 3 %     |
| DC / AC Power Source             | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |     |         |                 |
|----------------------------------------------------|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.15 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.02 dB | 30MHz - 1000MHz |
|                                                    | +/- | 3.43 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.86 dB | 18GHz - 40GHz   |
| Radiated Spurious Emission                         | +/- | 2 dB    | 33GHz-50GHz     |
|                                                    | +/- | 1.59 dB | 50GHz-60GHz     |
|                                                    | +/- | 1.7 dB  | 60GHz-90GHz     |
|                                                    | +/- | 1.64 dB | 90GHz-140GHz    |
|                                                    | +/- | 3.83 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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## 7 MEASUREMENT EQUIPMENT USED

### 7.1 Emission from AC power line

| AC Power-Line Conducted Emission Test Site: Conduction C |                                |               |                             |            |            |
|----------------------------------------------------------|--------------------------------|---------------|-----------------------------|------------|------------|
| EQUIPMENT TYPE                                           | MFR                            | MODEL NUMBER  | SERIAL NUMBER               | LAST CAL.  | CAL DUE.   |
| Coaxial Cable                                            | EC Lab                         | RF-HY-CAB-250 | RF-HY-CAB-250-01            | 03/27/2024 | 03/26/2025 |
| EMI Test Receiver                                        | R&S                            | ESCI          | 101342                      | 04/29/2024 | 04/28/2025 |
| LISN                                                     | SCHWARZBECK<br>Mess-Elektronik | NSLK8127      | 974                         | 06/19/2023 | 06/18/2024 |
| Pulse Limiter                                            | EC Lab                         | VTSD 9561F-N  | 485                         | 03/27/2024 | 03/26/2025 |
| Test Software                                            | audix                          | e3            | E3 20923 SGS Ver.9<br>( C ) | N.C.R      | N.C.R      |

### 7.2 Conducted Measurement

| Conducted Emission Test Site: Conducted E |           |              |               |            |            |
|-------------------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR       | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                         | KEYSIGHT  | N9010A       | MYS4510568    | 07/07/2023 | 07/06/2024 |
| DC Power Supply                           | Gwinstek  | SPD-3606     | GEV923152     | 05/10/2023 | 05/09/2024 |
| Attenuator                                | Marvelous | MVE2213-10   | RF06          | 11/15/2023 | 11/14/2024 |
| DC Block                                  | PASTERNAK | PE8210       | RF157         | 11/15/2023 | 11/14/2024 |

### 7.3 Radiated Measurement

| Radiated Emission Test Site: SAC D |                 |                   |                             |            |            |
|------------------------------------|-----------------|-------------------|-----------------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR             | MODEL NUMBER      | SERIAL NUMBER               | LAST CAL.  | CAL DUE.   |
| 3m Site NSA                        | SGS             | 966 chamber D     | N/A                         | 04/30/2024 | 04/29/2025 |
| 3m Site NSA                        | SGS             | 966 chamber D     | N/A                         | 04/30/2023 | 04/29/2024 |
| Active Loop Antenna                | COM-POWER       | AL-130R           | 10160105                    | 12/04/2023 | 12/03/2024 |
| Broadband Antenna                  | SCHWARZBECK     | VULB 9168         | 9168-617                    | 12/14/2023 | 12/13/2024 |
| Coaxial Cable                      | Huber+Suhner    | EMC106-SM-SM-7200 | 150703                      | 11/15/2023 | 11/14/2024 |
| Coaxial Cable                      | Huber+Suhner    | RG 214/U          | W21.01                      | 11/15/2023 | 11/14/2024 |
| Horn Antenna                       | Schwarzbeck     | BBHA9120D         | 1341                        | 05/30/2024 | 05/29/2025 |
| Horn Antenna                       | Schwarzbeck     | BBHA9120D         | 1341                        | 05/26/2023 | 05/25/2024 |
| Horn Antenna                       | SCHWARZBECK     | BBHA9170          | 185                         | 08/21/2023 | 08/20/2024 |
| Pre-Amplifier                      | EMC Instruments | EMC12630SE        | 980273                      | 11/15/2023 | 11/14/2024 |
| Pre-Amplifier                      | EMC Instruments | EMC18405SEE       | 980881                      | 11/15/2023 | 11/14/2024 |
| Pre-Amplifier                      | EMC Instruments | EMC9135           | 980234                      | 11/15/2023 | 11/14/2024 |
| Spectrum Analyzer                  | KEYSIGHT        | N9010A            | MYS7120200                  | 04/03/2024 | 04/02/2025 |
| 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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## 8 AC POWER LINE CONDUCTED EMISSION TEST

### 8.1 Applicable Standard:

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

| Frequency range<br>MHz | Limits<br>(dBuV) |          |
|------------------------|------------------|----------|
|                        | 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       |

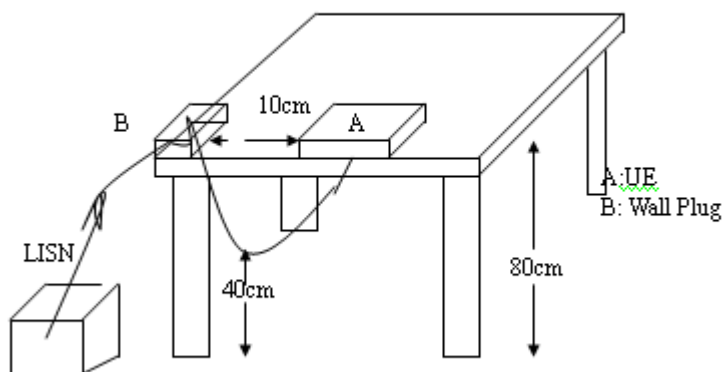
Note

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.

### 8.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

### 8.3 Test Setup



### 8.4 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

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## 8.5 Measurement Result:

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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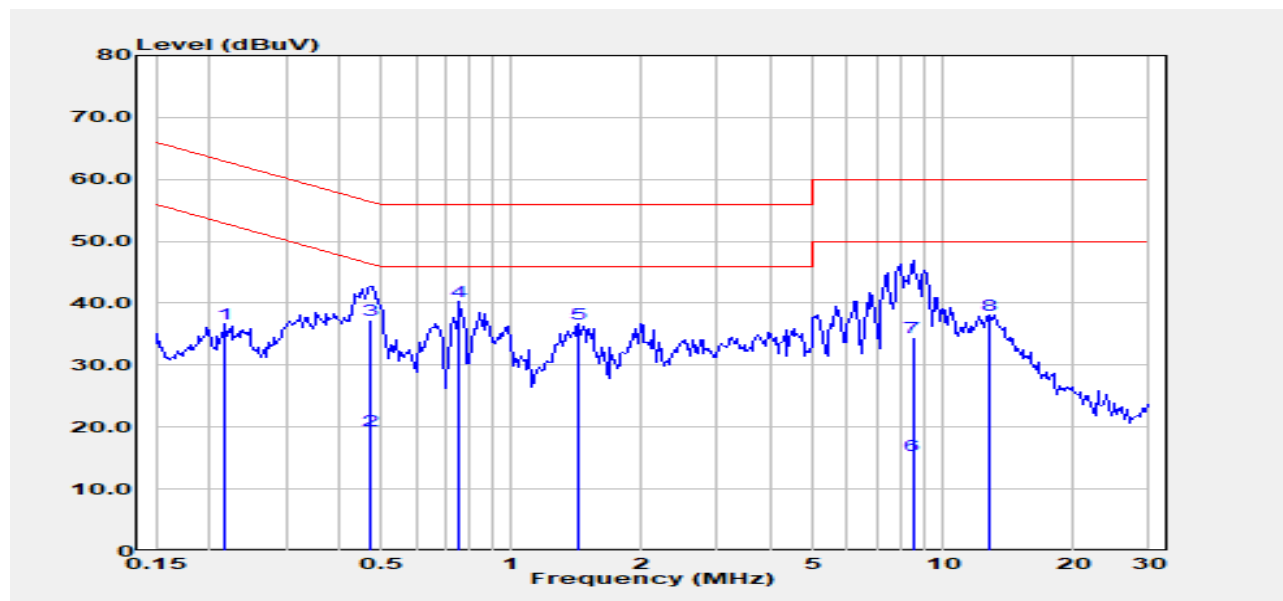
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

|               |                   |             |               |
|---------------|-------------------|-------------|---------------|
| Report Number | :TERF2404001078E2 | Test Site   | :Conduction C |
| Test Mode     | :2.4G             | Test Date   | :2024-06-05   |
| Power         | :120V/60Hz        | Temp./Humi. | :22.0/59%     |
| Probe         | :L1               | Engineer    | :Sam Huang    |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV | Limit<br>dBμV | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|----------------------|---------------|--------------|
| 0.217        | Peak                         | 25.98                             | 10.65        | 36.63                | 62.92         | -26.29       |
| 0.471        | Average                      | 8.90                              | 10.62        | 19.52                | 46.49         | -26.98       |
| 0.471        | QP                           | 26.70                             | 10.62        | 37.32                | 56.49         | -19.18       |
| 0.759        | Peak                         | 29.71                             | 10.66        | 40.37                | 56.00         | -15.63       |
| 1.433        | Peak                         | 25.98                             | 10.73        | 36.71                | 56.00         | -19.29       |
| 8.501        | Average                      | 4.50                              | 10.96        | 15.46                | 50.00         | -34.54       |
| 8.501        | QP                           | 23.50                             | 10.96        | 34.46                | 60.00         | -25.54       |
| 12.852       | Peak                         | 27.15                             | 11.03        | 38.19                | 60.00         | -21.81       |

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Report Number :TERF2404001078E2

Test Site :Conduction C

Test Mode :2.4G

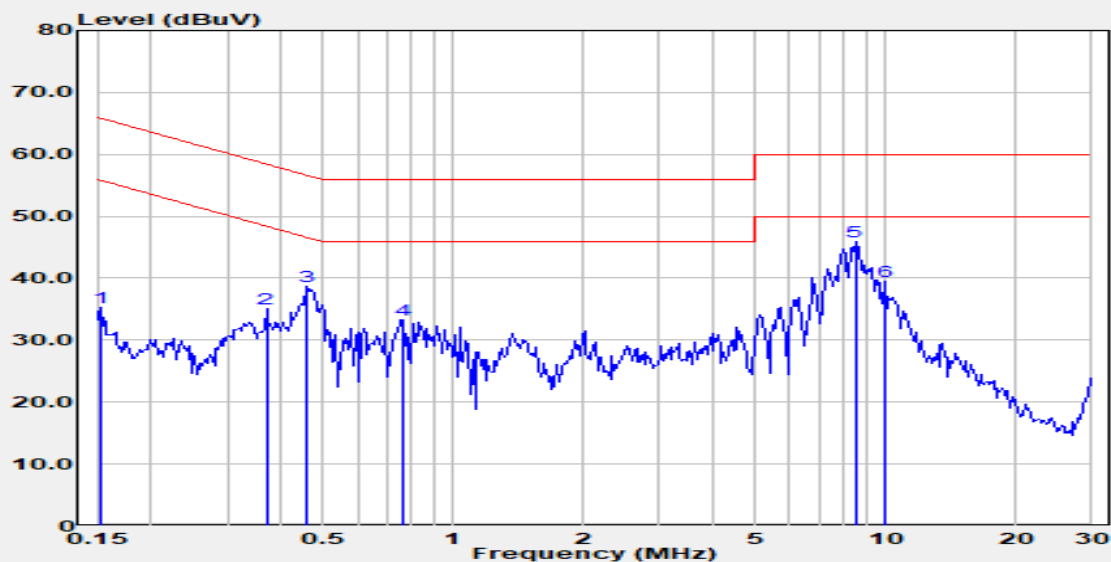
Test Date :2024-06-05

Power :120V/60Hz

Temp./Humi. :22.0/59%

Probe :N

Engineer :Sam Huang



| Freq. | Detector | Spectrum      | Factor | Actual | Limit | Margin |
|-------|----------|---------------|--------|--------|-------|--------|
| MHz   | Mode     | Reading Level |        | FS     |       |        |
|       | PK/QP/AV | dBuV          | dB     | dBuV   | dBuV  | dB     |
| 0.153 | Peak     | 24.71         | 10.66  | 35.37  | 65.82 | -30.45 |
| 0.369 | Peak     | 24.54         | 10.62  | 35.15  | 58.52 | -23.37 |
| 0.456 | Peak     | 28.05         | 10.61  | 38.66  | 56.76 | -18.10 |
| 0.767 | Peak     | 22.61         | 10.64  | 33.25  | 56.00 | -22.75 |
| 8.501 | Peak     | 34.94         | 10.95  | 45.89  | 60.00 | -14.11 |
| 9.966 | Peak     | 28.51         | 10.95  | 39.46  | 60.00 | -20.54 |

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## 9 RADIATED EMISSION TEST

### 9.1 Applicable Standard

1. Only spurious emissions are permitted in any of the frequency bands listed in §15.205 and Section 8.10 of RSS-Gen.
2. The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.
3. Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in §15.209 and section 8.9 of RSS-Gen, whichever is less stringent.

### 9.2 Measurement Procedure

#### 9.2.1 Radiated Emission

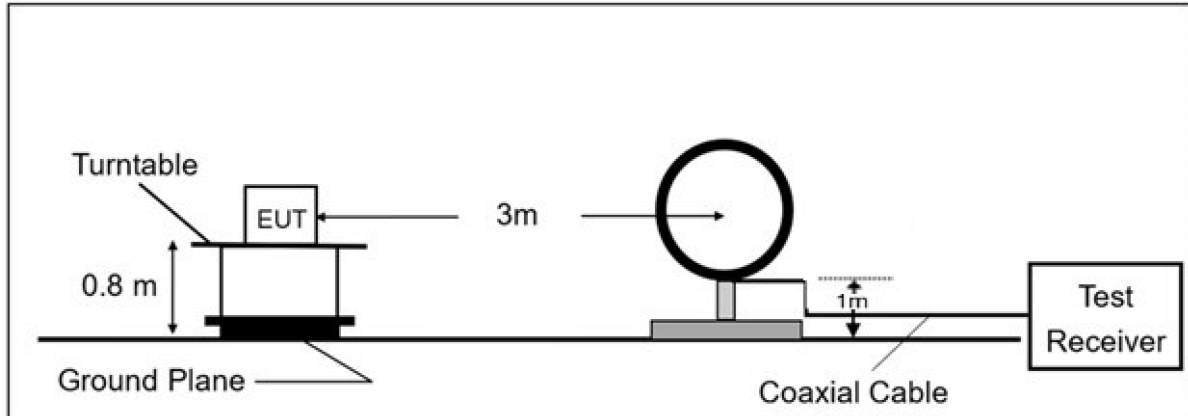
1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all default test channel measured were complete.

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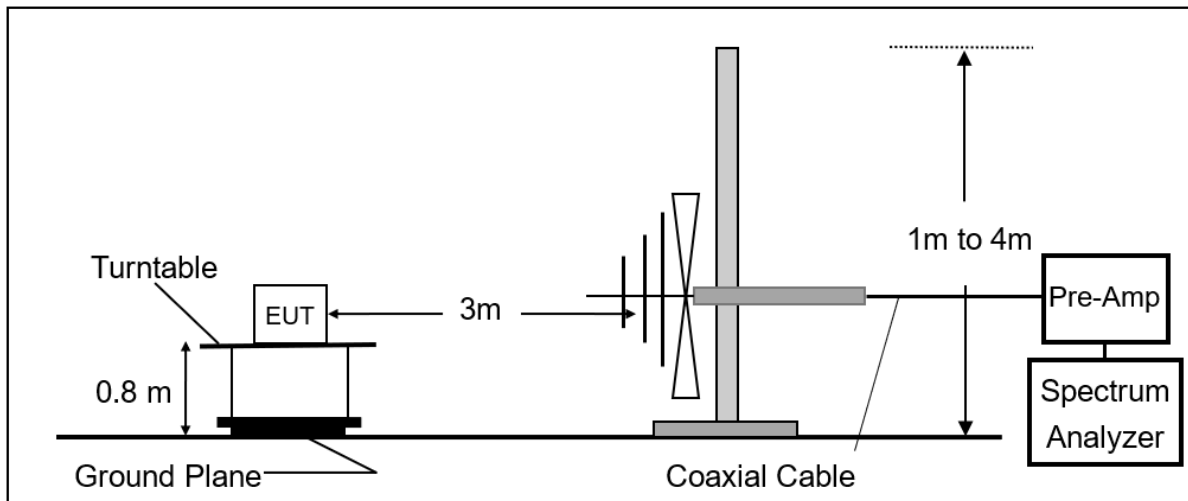
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## 9.3 Test Setup

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



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



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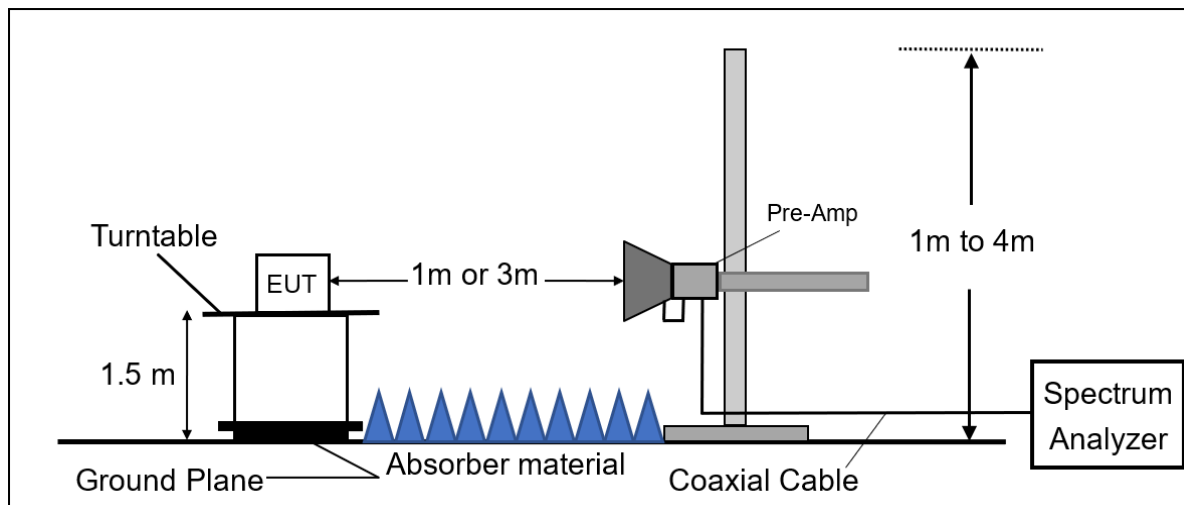
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### 9.3.3 Radiated Emission Test Set-Up, Frequency Above 1GHz.



### 9.4 Field Strength Calculation

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

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

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

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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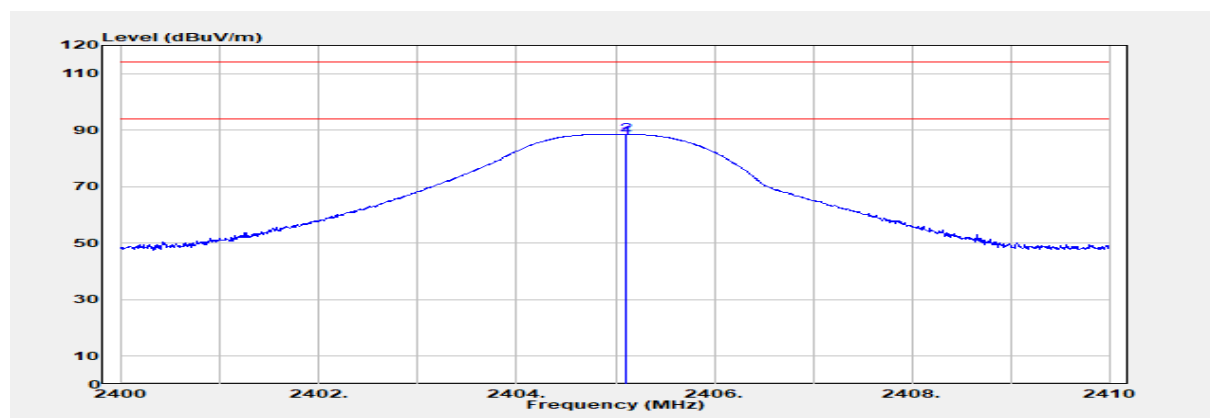
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## 9.5 Measurement Result

### 9.5.1 Field Strength of the Fundamental Signal

|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :TERF2404001078E2 | Test Site    | :SAC D      |
| Operation Mode | :2.4GHz           | Test Date    | :2024-04-23 |
| Test Frequency | :2405 MHz         | Temp./Humi.  | :21.5°C/62% |
| Test Mode      | :Main             | Antenna Pol. | :Vertical   |
| EUT Pol        | :E2 Plane         | Engineer     | :Sam Huang  |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2405.100     | Average                      | 92.17                                   | -4.57        | 87.59                        | 94.00                        | -6.41        |
| 2405.100     | Peak                         | 93.08                                   | -4.57        | 88.51                        | 114.00                       | -25.49       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2405 MHz

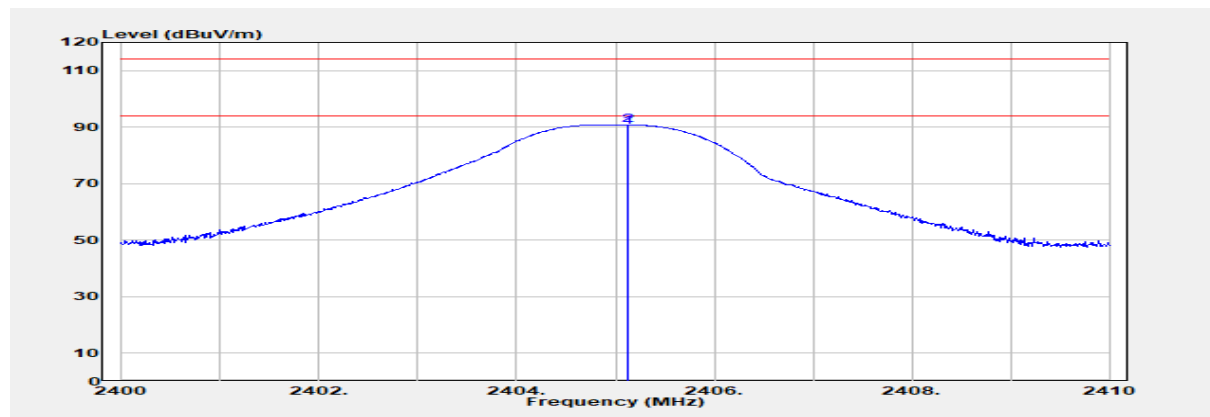
Temp./Humi. :21.5°C/62%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2405.120     | Average                      | 94.65                             | -4.57        | 90.08                  | 94.00                  | -3.92        |
| 2405.120     | Peak                         | 95.37                             | -4.57        | 90.80                  | 114.00                 | -23.20       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2447 MHz

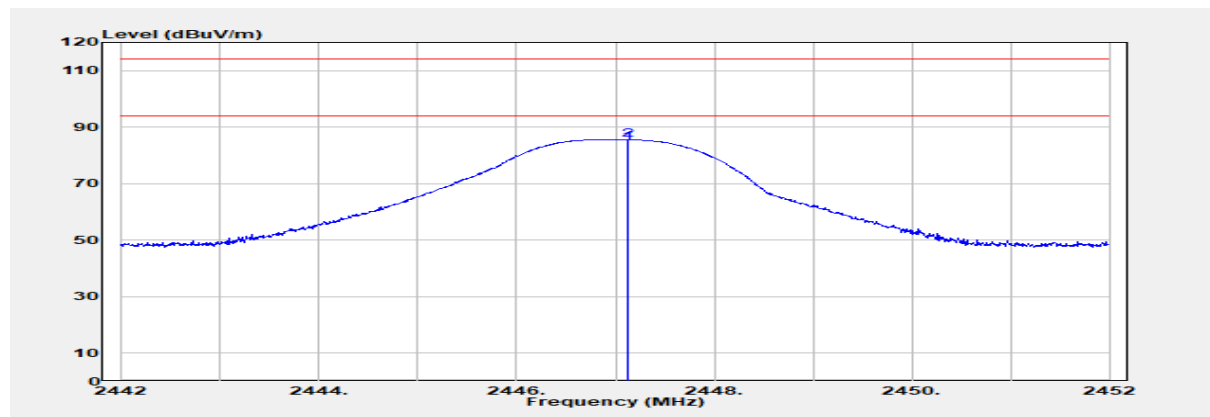
Temp./Humi. :21.5°C/62%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



| 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     |
| 2447.120 | Average  | 89.69         | -5.02  | 84.67        | 94.00        | -9.33  |
| 2447.120 | Peak     | 90.60         | -5.02  | 85.58        | 114.00       | -28.42 |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2447 MHz

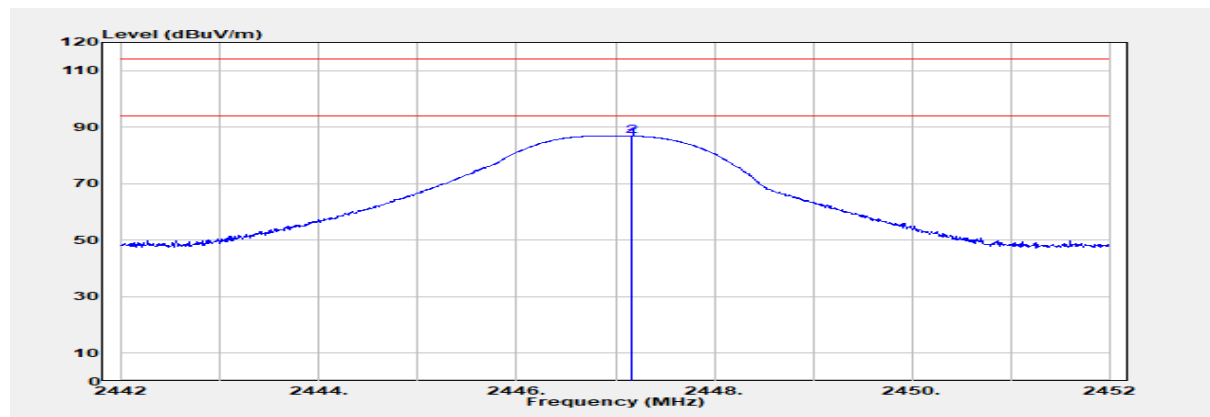
Temp./Humi. :21.5°C/62%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2447.160     | Average                      | 90.76                                   | -5.02        | 85.74                        | 94.00                        | -8.26        |
| 2447.160     | Peak                         | 91.87                                   | -5.02        | 86.85                        | 114.00                       | -27.15       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2476 MHz

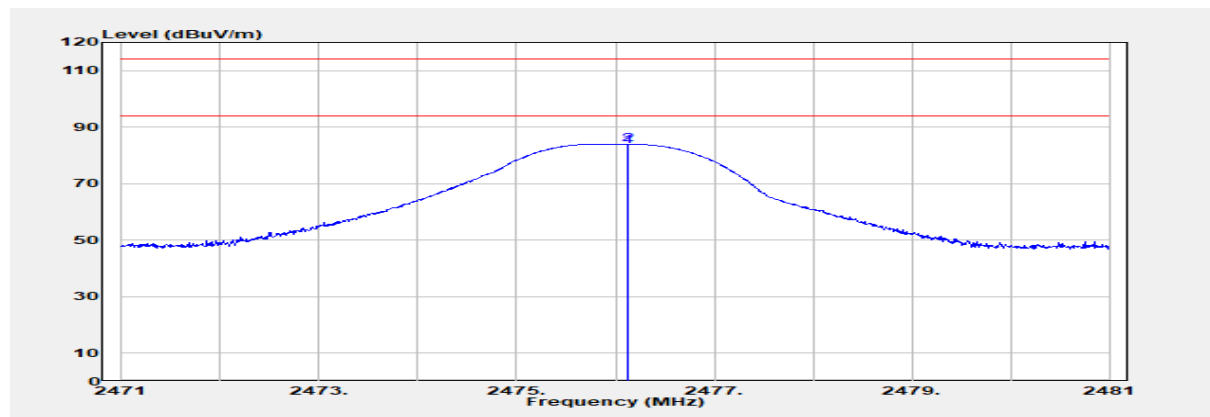
Temp./Humi. :21.5°C/62%

Test Mode :Main

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2476.120     | Average                      | 88.35                                   | -5.25        | 83.10                        | 94.00                        | -10.90       |
| 2476.120     | Peak                         | 89.30                                   | -5.25        | 84.06                        | 114.00                       | -29.94       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2476 MHz

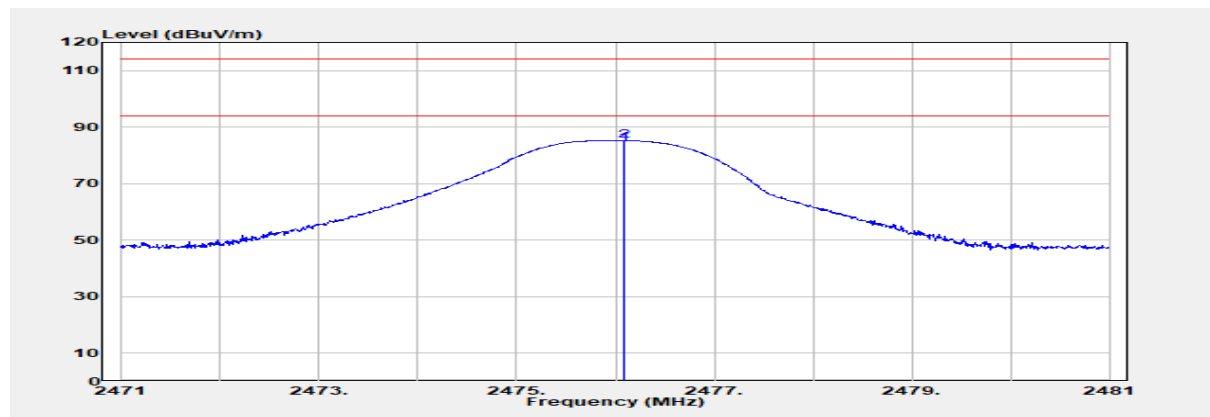
Temp./Humi. :21.5°C/62%

Test Mode :Main

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2476.090     | Average                      | 89.46                                   | -5.25        | 84.21                        | 94.00                        | -9.79        |
| 2476.090     | Peak                         | 90.43                                   | -5.25        | 85.18                        | 114.00                       | -28.82       |

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**9.5.2 Restricted bands around fundamental frequency**

Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2405 MHz

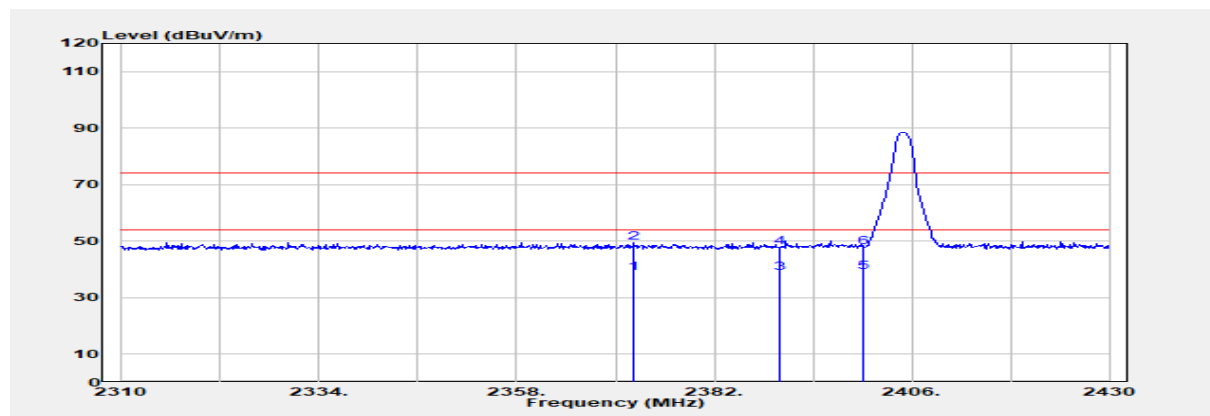
Temp./Humi. :21.5°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 2372.280     | Average                      | 43.23                                   | -4.69        | 38.54                        | 54.00                        | -15.46       |
| 2372.280     | Peak                         | 54.28                                   | -4.69        | 49.59                        | 74.00                        | -24.41       |
| 2390.000     | Average                      | 43.26                                   | -4.58        | 38.68                        | 54.00                        | -15.32       |
| 2390.000     | Peak                         | 52.48                                   | -4.58        | 47.90                        | 74.00                        | -26.10       |
| 2400.000     | Average                      | 43.44                                   | -4.52        | 38.92                        | 54.00                        | -15.08       |
| 2400.000     | Peak                         | 52.26                                   | -4.52        | 47.74                        | 74.00                        | -26.26       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2405 MHz

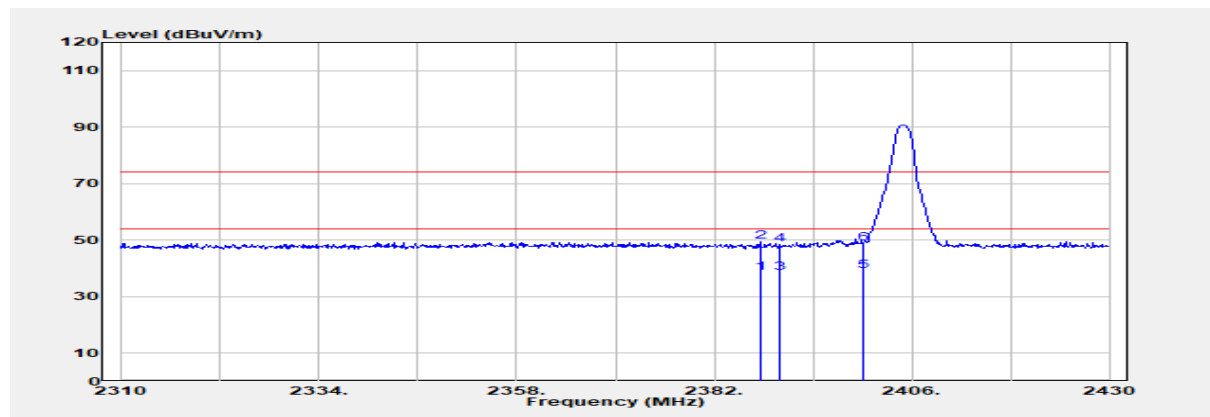
Temp./Humi. :21.5°C/62%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2387.640     | Average                      | 42.94                             | -4.60        | 38.34                  | 54.00                  | -15.66       |
| 2387.640     | Peak                         | 53.92                             | -4.60        | 49.32                  | 74.00                  | -24.68       |
| 2390.000     | Average                      | 43.04                             | -4.58        | 38.46                  | 54.00                  | -15.54       |
| 2390.000     | Peak                         | 52.96                             | -4.58        | 48.38                  | 74.00                  | -25.62       |
| 2400.000     | Average                      | 43.50                             | -4.52        | 38.98                  | 54.00                  | -15.02       |
| 2400.000     | Peak                         | 53.38                             | -4.52        | 48.86                  | 74.00                  | -25.14       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2476 MHz

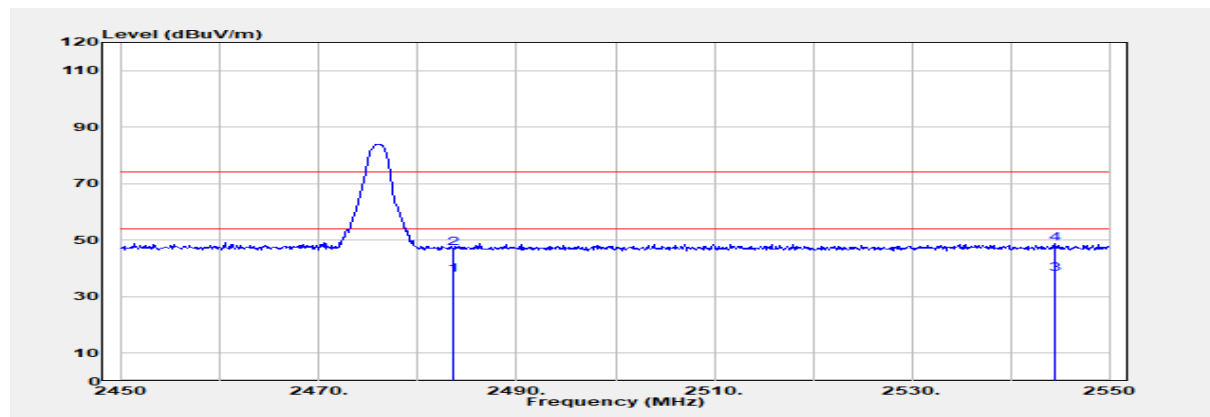
Temp./Humi. :21.5°C/62%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



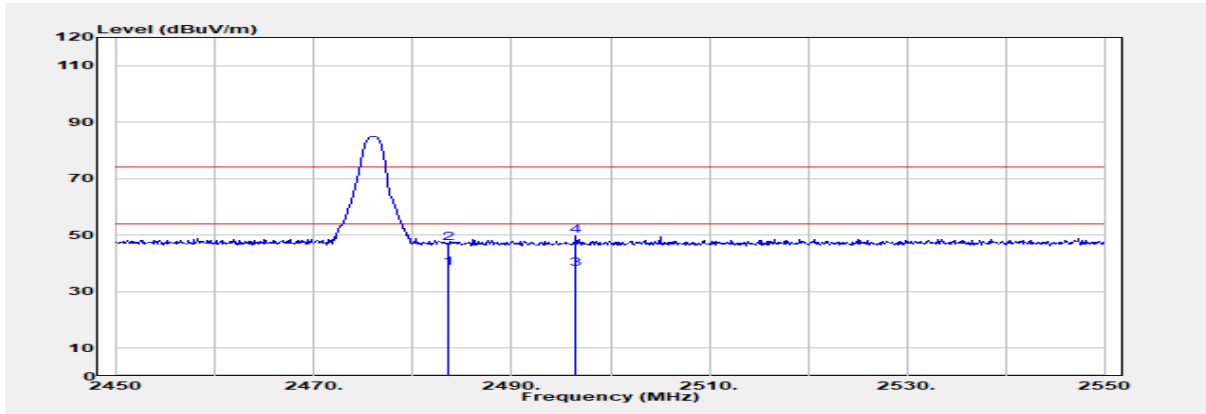
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.500     | Average                      | 43.17                             | -5.30        | 37.86                  | 54.00                  | -16.14       |
| 2483.500     | Peak                         | 52.41                             | -5.30        | 47.10                  | 74.00                  | -26.90       |
| 2544.500     | Average                      | 43.15                             | -5.15        | 38.00                  | 54.00                  | -16.00       |
| 2544.500     | Peak                         | 53.94                             | -5.15        | 48.79                  | 74.00                  | -25.21       |

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Report Number :TERF2404001078E2  
Operation Mode :2.4GHz  
Test Frequency :2476 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane

Test Site :SAC D  
Test Date :2024-04-23  
Temp./Humi. :21.5°C/62%  
Antenna Pol. :Horizontal  
Engineer :Sam Huang



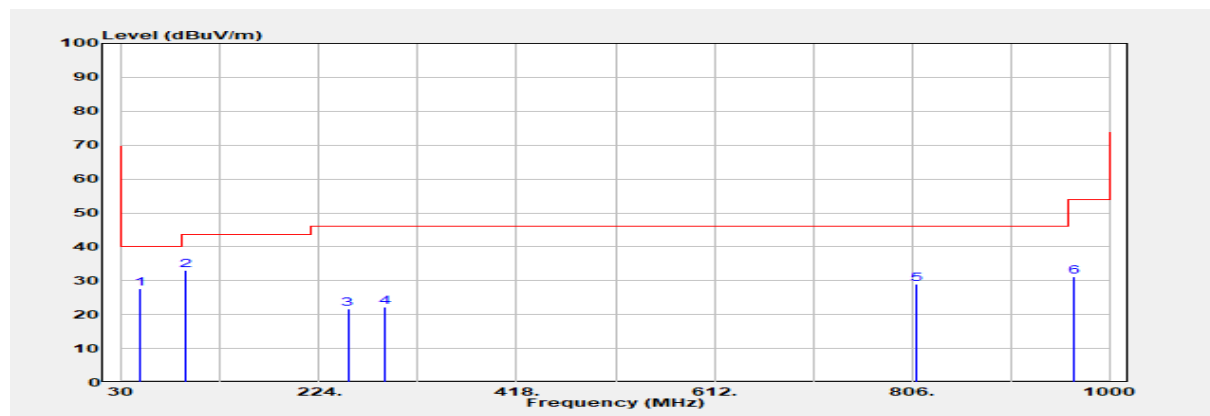
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.500     | Average                      | 43.62                             | -5.30        | 38.31                  | 54.00                  | -15.69       |
| 2483.500     | Peak                         | 52.41                             | -5.30        | 47.11                  | 74.00                  | -26.89       |
| 2496.500     | Average                      | 43.31                             | -5.40        | 37.90                  | 54.00                  | -16.10       |
| 2496.500     | Peak                         | 55.10                             | -5.40        | 49.70                  | 74.00                  | -24.30       |

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### 9.5.3 Radiated Spurious Emission Measurement Result

|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :TERF2404001078E2 | Test Site    | :SAC D      |
| Operation Mode | :2.4GHz           | Test Date    | :2024-06-05 |
| Test Frequency | :2447 MHz         | Temp./Humi.  | :22.1°C/64% |
| Test Mode      | :Tx               | Antenna Pol. | :Vertical   |
| EUT Pol        | :E2 Plane         | Engineer     | :Sam Huang  |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 47.460       | Peak                         | 44.39                                   | -16.83       | 27.56                        | 40.00                        | -12.44       |
| 93.050       | Peak                         | 55.67                                   | -22.61       | 33.07                        | 43.50                        | -10.43       |
| 252.130      | Peak                         | 38.71                                   | -17.15       | 21.55                        | 46.00                        | -24.45       |
| 288.020      | Peak                         | 38.31                                   | -15.96       | 22.35                        | 46.00                        | -23.65       |
| 809.880      | Peak                         | 35.02                                   | -6.01        | 29.01                        | 46.00                        | -16.99       |
| 966.050      | Peak                         | 35.21                                   | -4.18        | 31.03                        | 54.00                        | -22.97       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-06-05

Test Frequency :2447 MHz

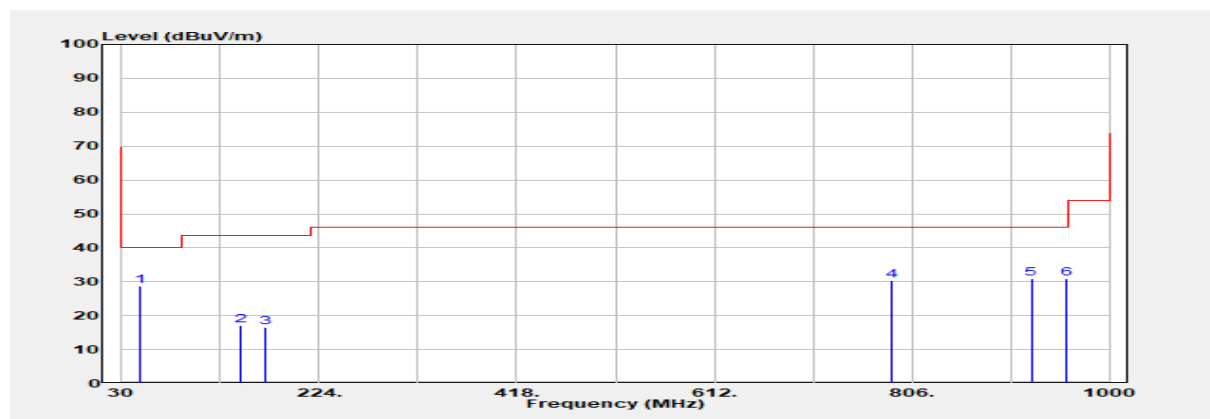
Temp./Humi. :22.1°C/64%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 48.430       | Peak                         | 45.53                                   | -16.78       | 28.75                        | 40.00                        | -11.25       |
| 147.370      | Peak                         | 32.98                                   | -16.03       | 16.94                        | 43.50                        | -26.56       |
| 170.650      | Peak                         | 33.32                                   | -16.87       | 16.45                        | 43.50                        | -27.05       |
| 785.630      | Peak                         | 36.81                                   | -6.55        | 30.26                        | 46.00                        | -15.74       |
| 923.370      | Peak                         | 35.30                                   | -4.33        | 30.97                        | 46.00                        | -15.03       |
| 958.290      | Peak                         | 34.96                                   | -3.98        | 30.99                        | 46.00                        | -15.01       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2405 MHz

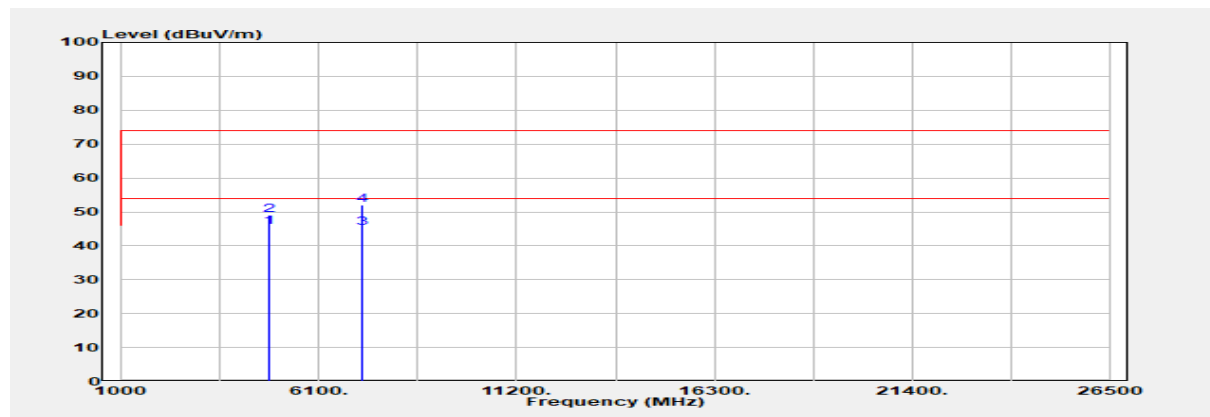
Temp./Humi. :21.5°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4810.000     | Average                      | 44.52                             | 1.02         | 45.53                  | 54.00                  | -8.47        |
| 4810.000     | Peak                         | 48.02                             | 1.02         | 49.04                  | 74.00                  | -24.96       |
| 7215.000     | Average                      | 37.02                             | 8.23         | 45.25                  | 54.00                  | -8.75        |
| 7215.000     | Peak                         | 43.83                             | 8.23         | 52.06                  | 74.00                  | -21.94       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2405 MHz

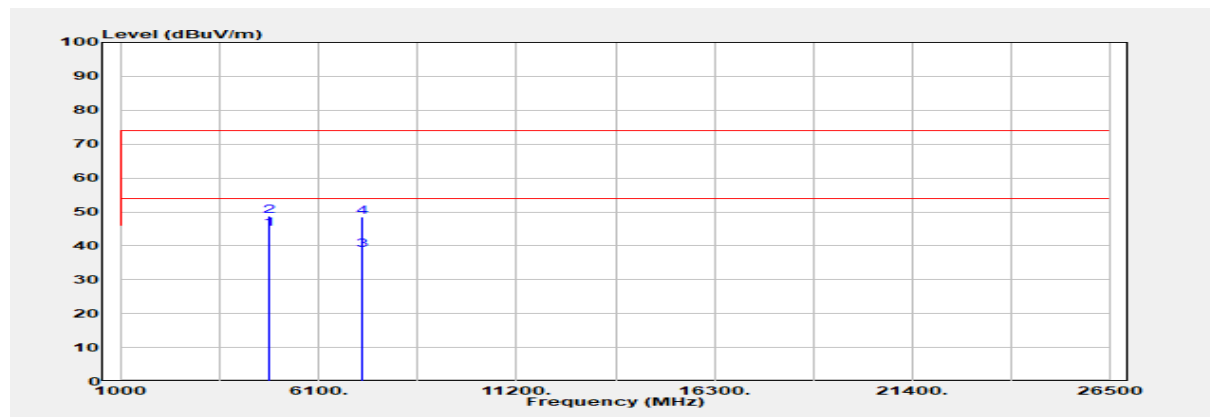
Temp./Humi. :21.5°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4810.000     | Average                      | 44.01                             | 1.02         | 45.03                  | 54.00                  | -8.97        |
| 4810.000     | Peak                         | 47.84                             | 1.02         | 48.86                  | 74.00                  | -25.14       |
| 7215.000     | Average                      | 30.46                             | 8.23         | 38.69                  | 54.00                  | -15.31       |
| 7215.000     | Peak                         | 40.38                             | 8.23         | 48.60                  | 74.00                  | -25.40       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2447 MHz

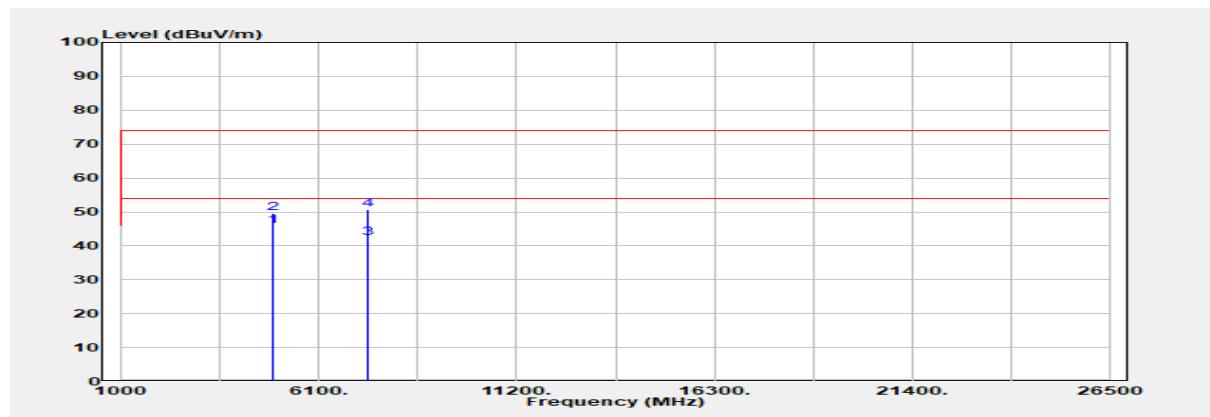
Temp./Humi. :21.5°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4894.000     | Average                      | 44.82                             | 0.89         | 45.71                  | 54.00                  | -8.29        |
| 4894.000     | Peak                         | 48.74                             | 0.89         | 49.63                  | 74.00                  | -24.37       |
| 7341.000     | Average                      | 33.37                             | 9.00         | 42.38                  | 54.00                  | -11.62       |
| 7341.000     | Peak                         | 41.64                             | 9.00         | 50.64                  | 74.00                  | -23.36       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2447 MHz

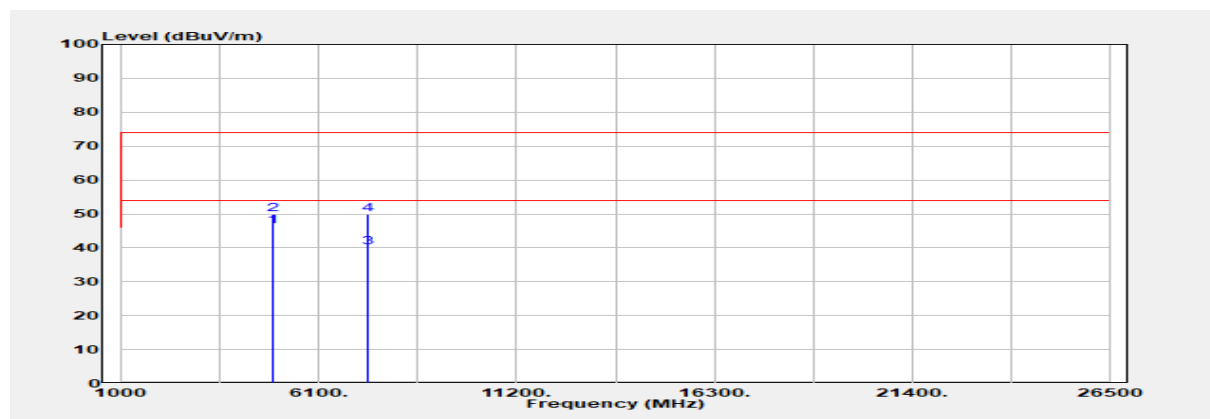
Temp./Humi. :21.5°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4894.000     | Average                      | 45.44                             | 0.89         | 46.33                  | 54.00                  | -7.67        |
| 4894.000     | Peak                         | 48.95                             | 0.89         | 49.84                  | 74.00                  | -24.16       |
| 7341.000     | Average                      | 31.00                             | 9.00         | 40.01                  | 54.00                  | -13.99       |
| 7341.000     | Peak                         | 40.90                             | 9.00         | 49.91                  | 74.00                  | -24.09       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2476 MHz

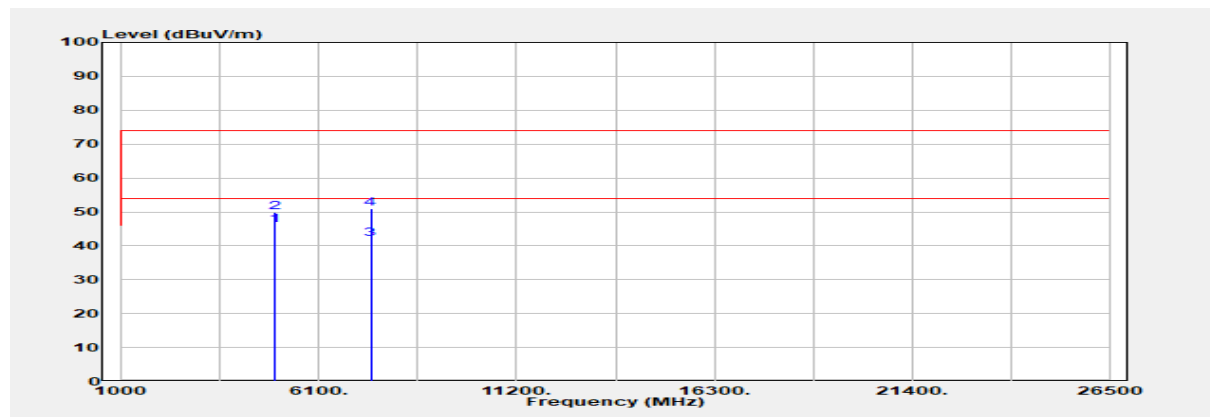
Temp./Humi. :21.5°C/62%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4952.000     | Average                      | 44.28                             | 1.78         | 46.06                  | 54.00                  | -7.94        |
| 4952.000     | Peak                         | 48.19                             | 1.78         | 49.97                  | 74.00                  | -24.03       |
| 7428.000     | Average                      | 32.28                             | 9.80         | 42.07                  | 54.00                  | -11.93       |
| 7428.000     | Peak                         | 41.05                             | 9.80         | 50.84                  | 74.00                  | -23.16       |

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Report Number :TERF2404001078E2

Test Site :SAC D

Operation Mode :2.4GHz

Test Date :2024-04-23

Test Frequency :2476 MHz

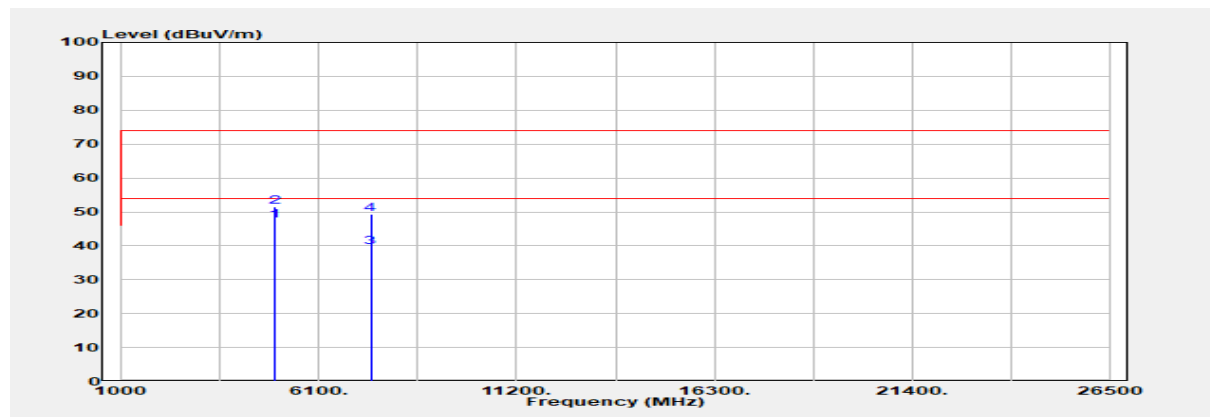
Temp./Humi. :21.5°C/62%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Sam Huang



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4952.000     | Average                      | 45.76                             | 1.78         | 47.54                  | 54.00                  | -6.46        |
| 4952.000     | Peak                         | 49.64                             | 1.78         | 51.42                  | 74.00                  | -22.58       |
| 7428.000     | Average                      | 29.77                             | 9.80         | 39.57                  | 54.00                  | -14.43       |
| 7428.000     | Peak                         | 39.64                             | 9.80         | 49.43                  | 74.00                  | -24.57       |

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## 10 EMISSION BANDWIDTH

### 10.1 Applicable Standard

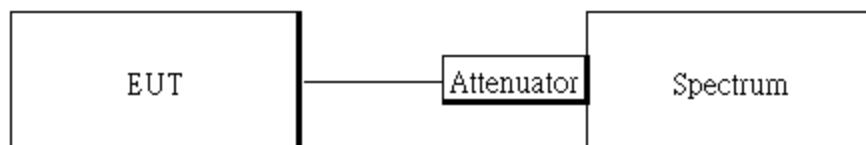
§2.1049 (h) & 15.215(c)

- (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

#### RSS-Gen Section 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

### 10.1 Test Setup



### 10.2 Measurement Procedure

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. Set the spectrum analyzer as  
RBW=1% of the approximate emission bandwidth,  
VBW = 3 times RBW,  
Span= 2 to 5 times of the OBW.

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Sweep=auto

Detector = Peak, and Max hold

4. Turn on the -20 dB Bandwidth function, max reading.
5. Turn on the 99% bandwidth function, max reading.

### 10.3 Measurement Results:

| Frequency (MHz) | 20dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
|-----------------|----------------------|---------------------|
| 2405            | 1.213                | 1.0566              |
| 2447            | 1.216                | 1.0566              |
| 2476            | 1.203                | 1.0458              |

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台灣檢驗科技股份有限公司

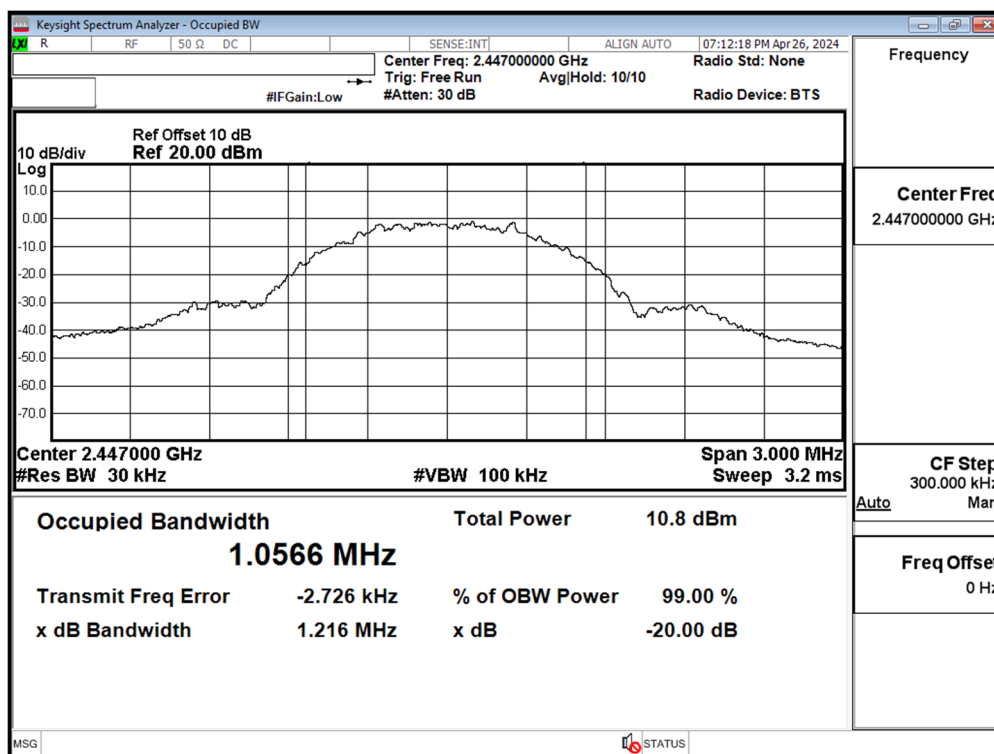
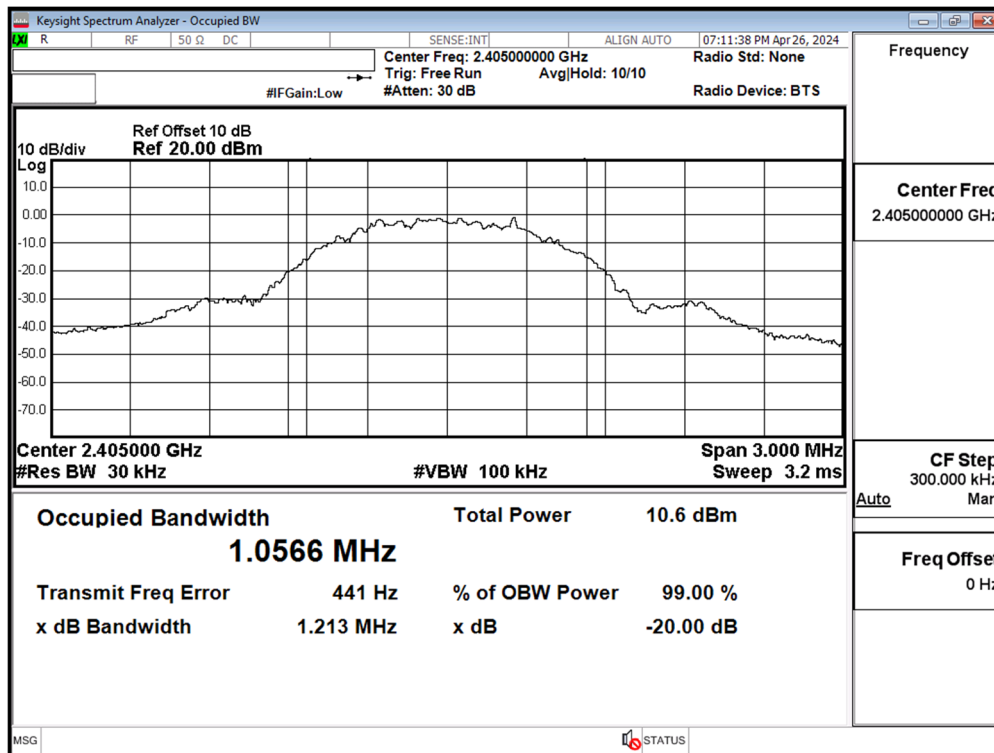
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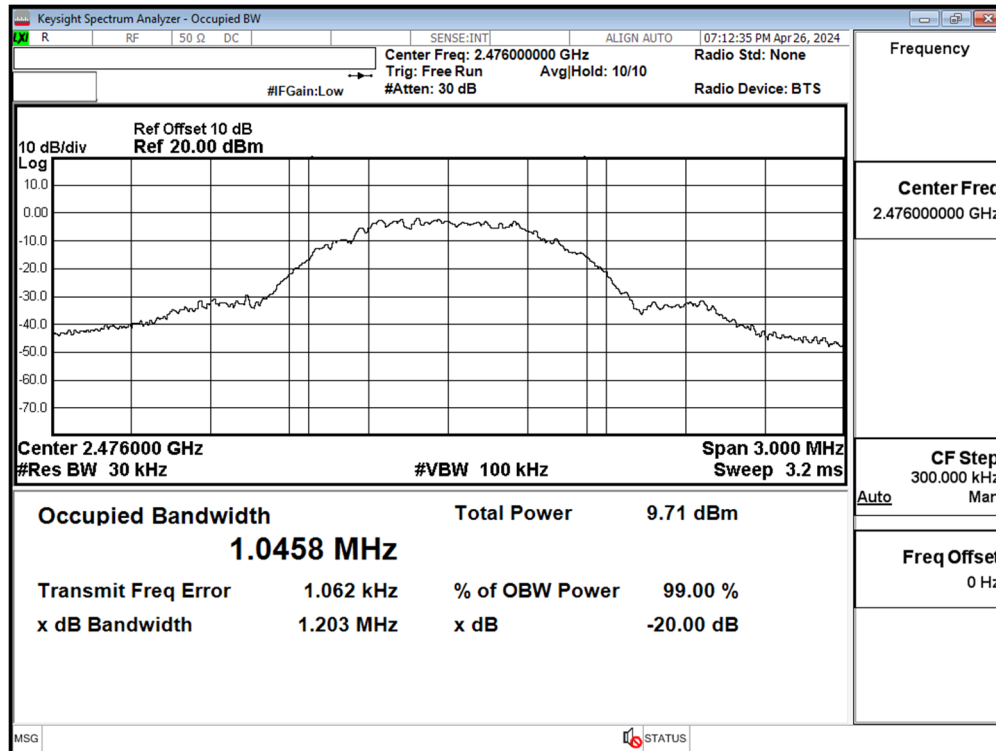




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## 11 ANTENNA REQUIREMENT

### 11.1 Standard Applicable:

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.

### 11.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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