

# TEST REPORT

Report No.: SHE23060104-02AE

Date: 2023-08-07

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**Applicant** : SIMCom Wireless Solutions Limited  
**Address of Applicant** : SIMCom Headquarters Building, Building 3, No.289  
Linhong Road, Changning District, Shanghai, China

**Product Name** : Wireless Data Module  
**Brand Name** : SIMCom  
**Model Name** : SIM8070  
**Sample Acquisition Method** : Sent by Client  
**Sample No.** : E23060104-01#02

**FCC ID** : 2AJYU-8XK0002

**Standards** : FCC CFR47 Part 15, Subpart C

**Date of Receipt** : 2023-07-07  
**Date of Test** : 2023-07-13~ 2023-08-03  
**Date of Issue** : 2023-08-07

**Remark:**

*This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

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(Erik Yang)

Reviewed by: Jennifer Zhou  
(Jennifer Zhou)

Approved by: Echo Mu  
(Authorized signatory: Echo Mu)

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## 1 General Information

### 1.1 Testing Laboratory

|              |                                                      |
|--------------|------------------------------------------------------|
| Company Name | ICAS Testing Technology Service (Shanghai) Co., Ltd. |
| Address      | No.1298 Pingan Rd, Minhang District, Shanghai, China |
| Telephone    | 0086 21-51682999                                     |
| Fax          | 0086 21-54711112                                     |
| Homepage     | www.icasiso.com                                      |

### 1.2 Details of Application

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Applicant Company Name    | SIMCom Wireless Solutions Limited                                                                 |
| Address                   | SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai,China |
| Contact Person            | Yongsheng Li                                                                                      |
| Telephone                 | +86 21 3252 3134                                                                                  |
| Email                     | yongsheng.li@simcom.com                                                                           |
| Manufacturer Company Name | SIMCom Wireless Solutions Limited                                                                 |
| Address                   | SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai,China |
| Factory Company Name      | SIMCom Wireless Solutions Limited                                                                 |
| Address                   | SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai,China |

### 1.3 Details of EUT

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| Product Name              | Wireless Data Module                                                                   |
| Brand Name                | SIMCom                                                                                 |
| Test Model Name           | SIM8070                                                                                |
| FCC ID                    | 2AJYU-8XK0002                                                                          |
| Mode of Operation         | Bluetooth BLE Version 5.0                                                              |
| Frequency Range           | 2402MHz ~ 2480MHz                                                                      |
| Number of Channels        | 40 (at intervals of 2 MHz)                                                             |
| Modulation Type           | BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps |
| Max RF Output Power       | 5.95dBm                                                                                |
| Antenna Type              | External Antenna                                                                       |
| Antenna Gain              | 4.01dBi                                                                                |
| Extreme Temperature Range | -30℃~ +75℃                                                                             |
| Test Voltage              | DC 3.8V                                                                                |
| Hardware Version          | SIM8970CE_V1.02                                                                        |
| Software Version          | SIM8070B01V01_A10                                                                      |

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|                             |                                  |
|-----------------------------|----------------------------------|
| RF power setting in TEST SW | QRCT_Power level setting_Default |
|-----------------------------|----------------------------------|

Note:

1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

## Channel List

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 0       | 2.402GHz  | 14      | 2.430GHz  | 28      | 2.458GHz  |
| 1       | 2.404GHz  | 15      | 2.432GHz  | 29      | 2.460GHz  |
| 2       | 2.406GHz  | 16      | 2.434GHz  | 30      | 2.462GHz  |
| 3       | 2.408GHz  | 17      | 2.436GHz  | 31      | 2.464GHz  |
| 4       | 2.410GHz  | 18      | 2.438GHz  | 32      | 2.466GHz  |
| 5       | 2.412GHz  | 19      | 2.440GHz  | 33      | 2.468GHz  |
| 6       | 2.414GHz  | 20      | 2.442GHz  | 34      | 2.470GHz  |
| 7       | 2.416GHz  | 21      | 2.444GHz  | 35      | 2.472GHz  |
| 8       | 2.418GHz  | 22      | 2.446GHz  | 36      | 2.474GHz  |
| 9       | 2.420GHz  | 23      | 2.448GHz  | 37      | 2.476GHz  |
| 10      | 2.422GHz  | 24      | 2.450GHz  | 38      | 2.478GHz  |
| 11      | 2.424GHz  | 25      | 2.452GHz  | 39      | 2.480GHz  |
| 12      | 2.426GHz  | 26      | 2.454GHz  |         |           |
| 13      | 2.428GHz  | 27      | 2.456GHz  |         |           |

## 1.4 Test Methodology

|                                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| 47 CFR Part 15, Subpart C         | Telecommunication-Radio Frequency Devices-Intentional Radiators    |
| KDB Publication 558074 D01 v05r02 | 15.247 Meas Guidance.                                              |
| ANSI C63.10-2013                  | American National Standard for Testing Unlicensed Wireless Devices |

### Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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## 1.5 Test Summary

| Test Item                                                  | FCC Rules                             | Result |
|------------------------------------------------------------|---------------------------------------|--------|
| Antenna Requirement                                        | FCC Part 15.247(b)(4),<br>Part 15.203 | PASS   |
| Maximum peak conducted output power                        | FCC Part 15.247(b)(3)                 | PASS   |
| 6dB Bandwidth                                              | FCC Part 15.247(a)(2)                 | PASS   |
| Maximum conducted output power spectral density            | FCC Part 15.247(e)                    | PASS   |
| Conducted Spurious Emission & Authorized-band<br>band-edge | FCC Part 15.247(d)                    | PASS   |
| Radiated Emission                                          | FCC Part 15.247(d), 15.205, 15.209    | PASS   |
| Band Edge (Restricted-band band-edge)                      | FCC Part 15.247(d), 15.205, 15.209    | PASS   |
| Conducted Emission on AC Mains                             | FCC Part 15.207(a)                    | PASS   |

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## 2 Test Condition

### 2.1 Environmental conditions

|                            |          |
|----------------------------|----------|
| Temperature (°C)           | 18-25    |
| Humidity (%RH)             | 40-65    |
| Barometric Pressure (mbar) | 960-1060 |

### 2.2 Equipment List

| Name of Equipment                | Manufacturer    | Model           | Serial No.        | Cal. Date  | Cal. Due   |
|----------------------------------|-----------------|-----------------|-------------------|------------|------------|
| Spectrum Analyzer                | Keysight        | N9020B          | MY59260184        | 2022-08-02 | 2023-08-01 |
| Spectrum Analyzer                | Rohde & Schwarz | FSV40N          | 101450            | 2023-06-08 | 2024-06-07 |
| Signal Generator                 | Rohde & Schwarz | SMR27           | 100184            | 2022-08-02 | 2023-08-01 |
| EMI Test Receiver                | Rohde & Schwarz | ESPI3           | 100173            | 2023-06-08 | 2024-06-07 |
| EMI Test Receiver                | Rohde & Schwarz | ESR 7           | 101911            | 2023-06-08 | 2024-06-07 |
| V-network                        | SCHWARZBECK     | NSLK 8127       | 8127-902          | 2023-06-07 | 2024-06-06 |
| Attenuator                       | SCHWARZBECK     | VTSD<br>9561-FN | /                 | 2023-06-06 | 2024-06-05 |
| Broadband Antenna                | SCHWARZBECK     | VULB9163        | 9163-1037         | 2023-03-22 | 2025-03-21 |
| Horn Antenna-18G                 | SCHWARZBECK     | BBHA9120D       | 9120D-1775        | 2023-06-13 | 2025-06-12 |
| Loop Antenna                     | SCHWARZBECK     | FMZB 1513       | /                 | 2023-06-09 | 2024-06-08 |
| Horn Antenna-40G                 | YINGLIAN        | LB-180400-KF    | N/A               | 2023-06-18 | 2025-06-17 |
| Broadband Preamplifier           | SCHWARZBECK     | BBV 9718        | 346               | 2023-06-08 | 2024-06-07 |
| EMC chamber 9*6*6 (L*W*H)        | CHANGNING       | 966             | N/A               | 2023-06-09 | 2024-06-08 |
| Shielded Enclosure 8*5*4 (L*W*H) | CHANGNING       | 854             | N/A               | 2023-06-09 | 2025-06-08 |
| Test Software                    | BL              | BL410_E         | Version:1.0.0.117 | N/A        | N/A        |
| Test Software                    | BL              | BL410_R         | Version:2.1.1.409 | N/A        | N/A        |

Equipment Calibration Date Updated:

| Name of Equipment | Manufacturer    | Model  | Serial No. | Cal. Date  | Cal. Due   |
|-------------------|-----------------|--------|------------|------------|------------|
| Spectrum Analyzer | Keysight        | N9020B | MY59260184 | 2023-07-27 | 2024-07-26 |
| Signal Generator  | Rohde & Schwarz | SMR27  | 100184     | 2023-07-27 | 2024-07-26 |

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## 2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI. The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95.45%.

| Parameter                       |               | Uncertainty   |
|---------------------------------|---------------|---------------|
| Antenna Port Conducted Emission | < 1GHz        | $\pm 1.5$ dB  |
|                                 | > 1GHz        | $\pm 1.5$ dB  |
| Radiated Emission               | 9KHz – 30MHz  | $\pm 3.42$ dB |
|                                 | 30 MHz – 1GHz | $\pm 5.00$ dB |
|                                 | > 1GHz        | $\pm 4.88$ dB |
| Conducted Emission on AC Mains  | 150kHz-30MHz  | $\pm 2.68$ dB |
| Occupied Channel Bandwidth      |               | $\pm 5$ %     |
| RF output power, PSD            |               | $\pm 0.6$ dB  |

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## 3 Test Set-up and Operation Modes

### 3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:

| Channel                   | Frequency |
|---------------------------|-----------|
| The lowest channel(CH00)  | 2402MHz   |
| The middle channel(CH19)  | 2440MHz   |
| The Highest channel(CH39) | 2480MHz   |

The basic operation modes are:

- A. On
  - 1. BLE mode
    - a. Transmitting
      - i. Low Channel
      - ii. Middle Channel
      - iii. High Channel
    - b. Receiving
  - 2. Normal working with Bluetooth on
- B. Standby
- C. Off

### 3.2 Special Accessories and Auxiliary Equipment

| Description            | Manufacturer | Model Name              | Serial No.       |
|------------------------|--------------|-------------------------|------------------|
| Laptop                 | Lenovo       | TP00083A                | N/A              |
| SWITCHING POWER SUPPLY | N/A          | P-050B-050200EU         | N/A              |
| EVB Debug Board 1      | N/A          | 8PYA00-SIMCOM-EVB_V1.02 | N/A              |
| EVB Debug Board 2      | N/A          | 8XK000-SIM8970-EVB I    | N/A              |
| USB Cable              | N/A          | N/A                     | 1.00m Unshielded |

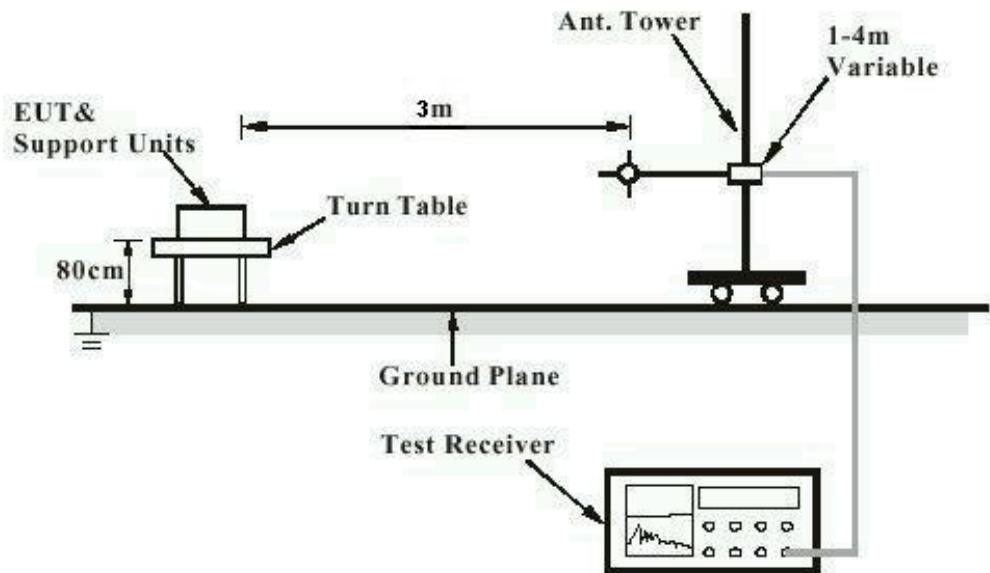
### 3.3 Support Software

| Description | Manufacturer | Software Name            |
|-------------|--------------|--------------------------|
| Software    | Qualcomm     | QRCT Version 4.0.00166.0 |

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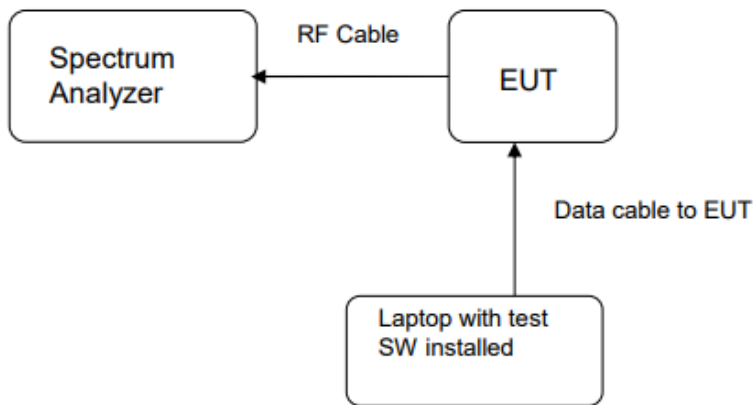
## 3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Transmitter Test



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## 4 Test Results

### 4.1 Transmitter Requirement & Test Suites

#### 4.1.1 Antenna Requirement

RESULT:

**PASS**

Test standard : FCC Part 15.247(b)(4), Part 15.203

Requirement : The use of approved antennas only with directional gains that do not exceed 6dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 4.01dBi. The antenna is an external antenna with no possibility of replacement with a non-approved antenna by the end-user.

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. Therefore, the EUT is considered to comply with this provision.

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## 4.1.2 Maximum peak conducted output power

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3)  
Requirement : ANSI C63.10-2013 clause 11.9.1.1,  
KDB 558074 D01 v05r02, Clause 8.3.1  
Kind of test site : Shielded room

### Test setup

Test Channel : Low/Middle/High  
Operation Mode : A.1.a  
Ambient temperature : 24.9°C  
Relative humidity : 56%

Table 1: Maximum peak conducted output power

| Test Mode | Test Channel (MHz) | Maximum peak conducted output power |      | Limit (W) |
|-----------|--------------------|-------------------------------------|------|-----------|
|           |                    | (dBm)                               | (mW) |           |
| BLE       | 2402               | 5.70                                | 3.72 | < 1       |
|           | 2440               | 5.52                                | 3.56 |           |
|           | 2480               | 5.95                                | 3.94 |           |

Figure 1: Peak Output Power, 2402MHz



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Figure 2: Peak Output Power, 2440MHz

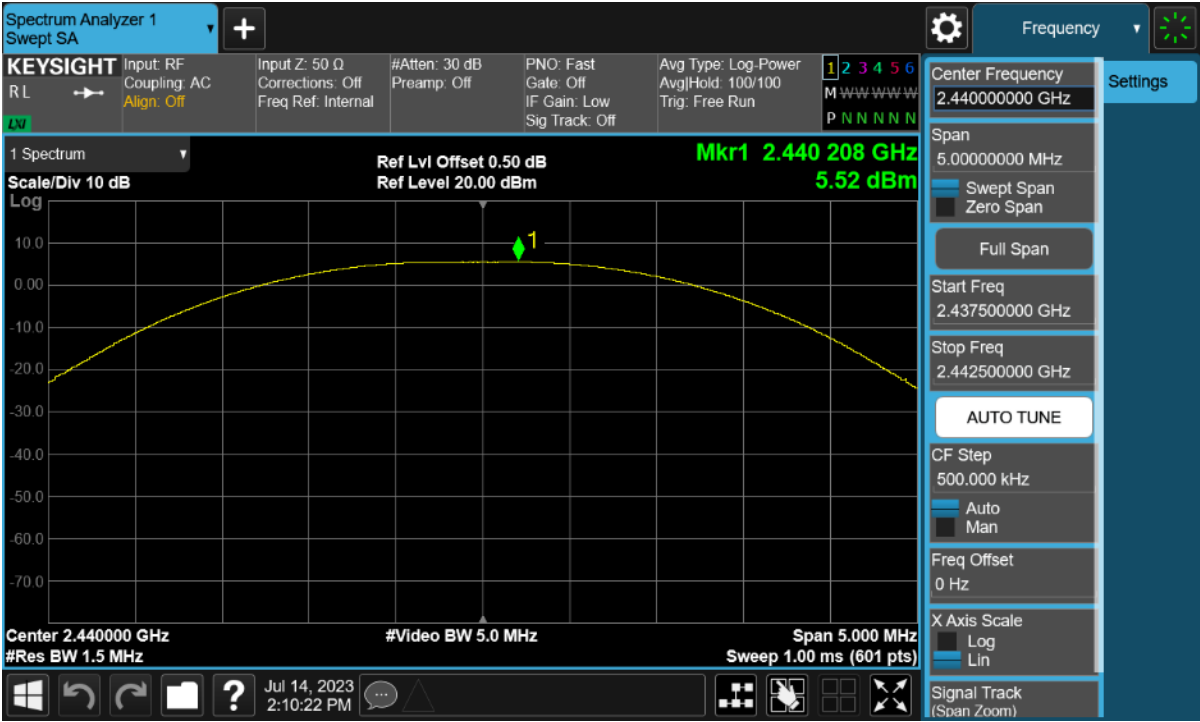


Figure 3: Peak Output Power, 2480MHz



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## 4.1.3 6dB Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(2)  
Requirement : ANSI C63.10-2013 clause 11.8.1,  
KDB 558074 D01 v05r02, Clause 8.2  
Kind of test site : Shielded room

### Test setup

Test Channel : Low/Middle/High  
Operation Mode : A.1.a  
Ambient temperature : 24.9°C  
Relative humidity : 56%

Table 2: 6dB Bandwidth

| Test Mode | Test Channel (MHz) | 6dB Bandwidth (MHz) | Limit          |
|-----------|--------------------|---------------------|----------------|
| BLE       | 2402               | 0.6412              | $\geq 0.5$ MHz |
|           | 2440               | 0.6403              |                |
|           | 2480               | 0.6496              |                |

Figure 4: 6dB Bandwidth, 2402MHz



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Figure 5: 6dB Bandwidth, 2440MHz

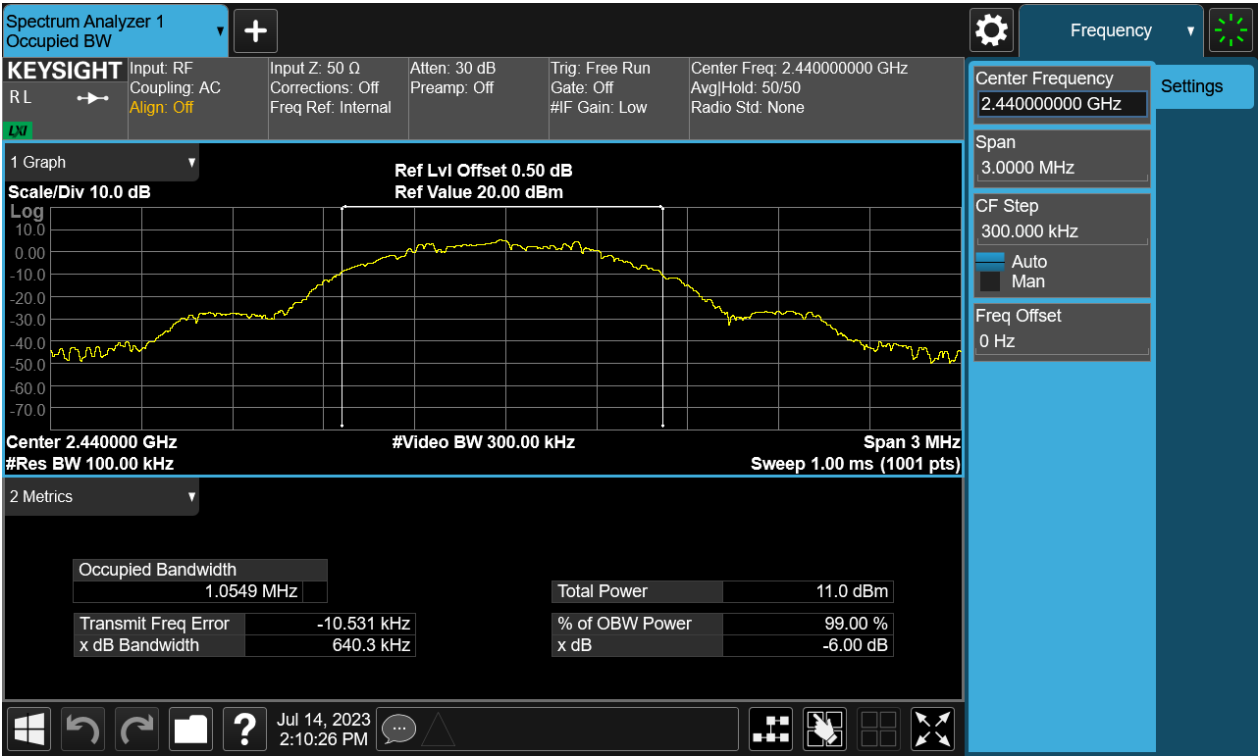


Figure 6: 6dB Bandwidth, 2480MHz



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## 4.1.4 Maximum conducted output power spectral density

RESULT:

PASS

Test standard : FCC Part 15.247(e)  
Requirement : ANSI C63.10-2013 clause 11.10.2,  
KDB 558074 D01 v05r02, Clause 8.4  
Kind of test site : Shielded room

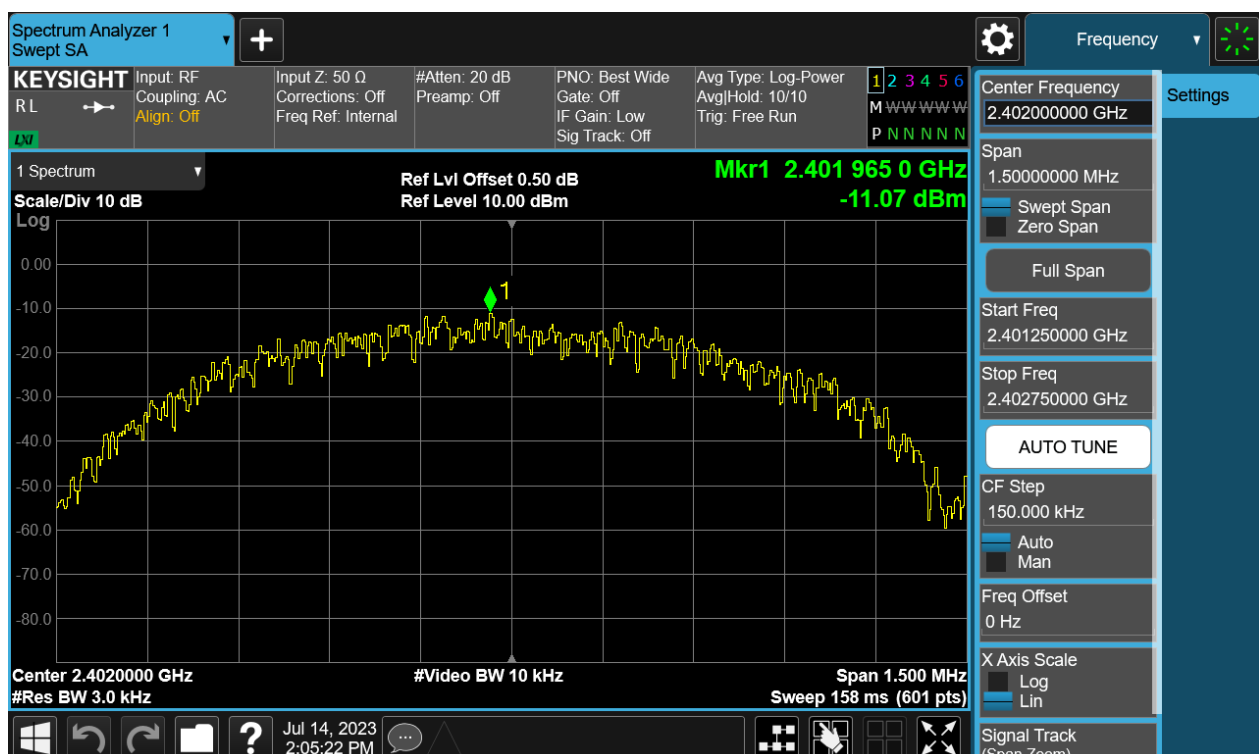
### Test setup

Test Channel : Low/Middle/High  
Operation Mode : A.1.a  
Ambient temperature : 24.9°C  
Relative humidity : 56%

Table 3: Maximum conducted output power spectral density

| Test Mode | Test Channel (MHz) | Measured Result (dBm/3kHz) | Limit (dBm/3kHz) |
|-----------|--------------------|----------------------------|------------------|
| BLE       | 2402               | -11.07                     | 8                |
|           | 2440               | -10.28                     |                  |
|           | 2480               | -9.93                      |                  |

Figure 7: Power Spectral Density, 2402MHz



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Figure 8: Power Spectral Density, 2440MHz

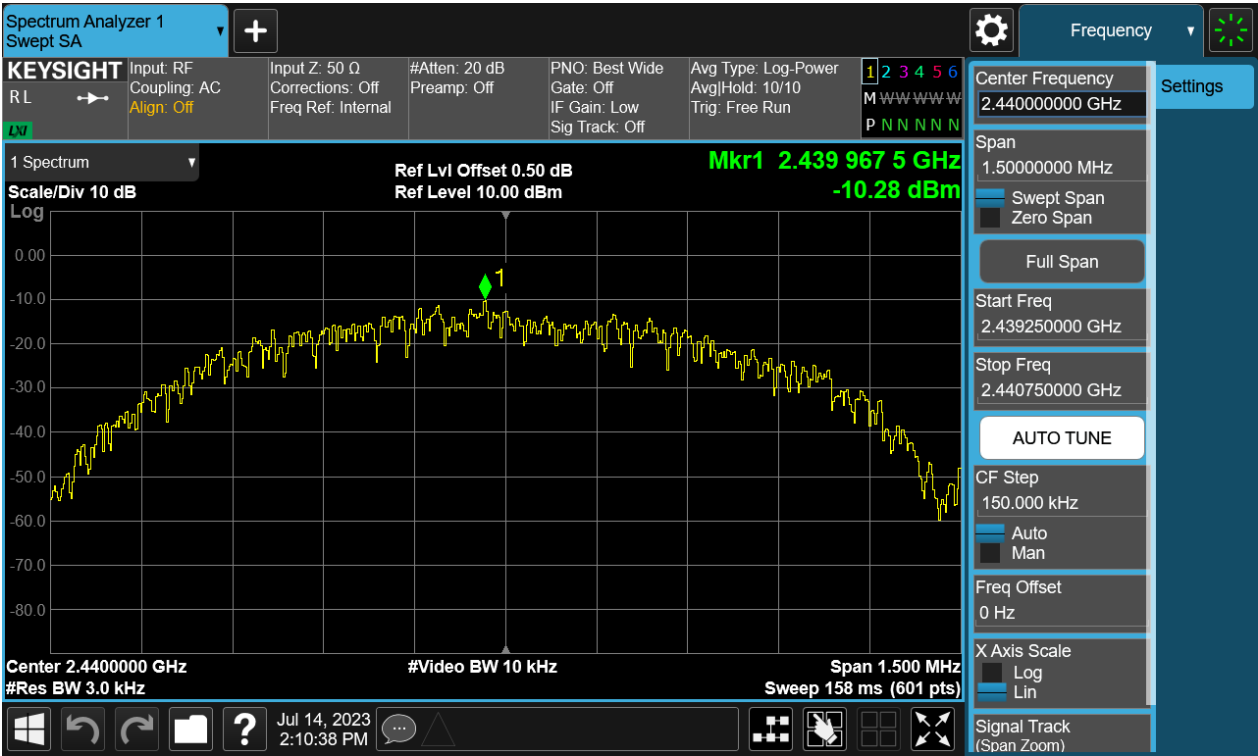


Figure 9: Power Spectral Density, 2480MHz



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## 4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard

: FCC Part 15.247(d)

Requirement

: ANSI C63.10-2013, Clause 11.11.1(a)

KDB 558074 D01 v05r02, Clause 8.5

Kind of test site

: Shielded room

### Test setup

Test Channel

: Low/Middle/High for spurious, Low/High for Band

Edge

Operation Mode

: A.1.a

Ambient temperature

: 24.9°C

Relative humidity

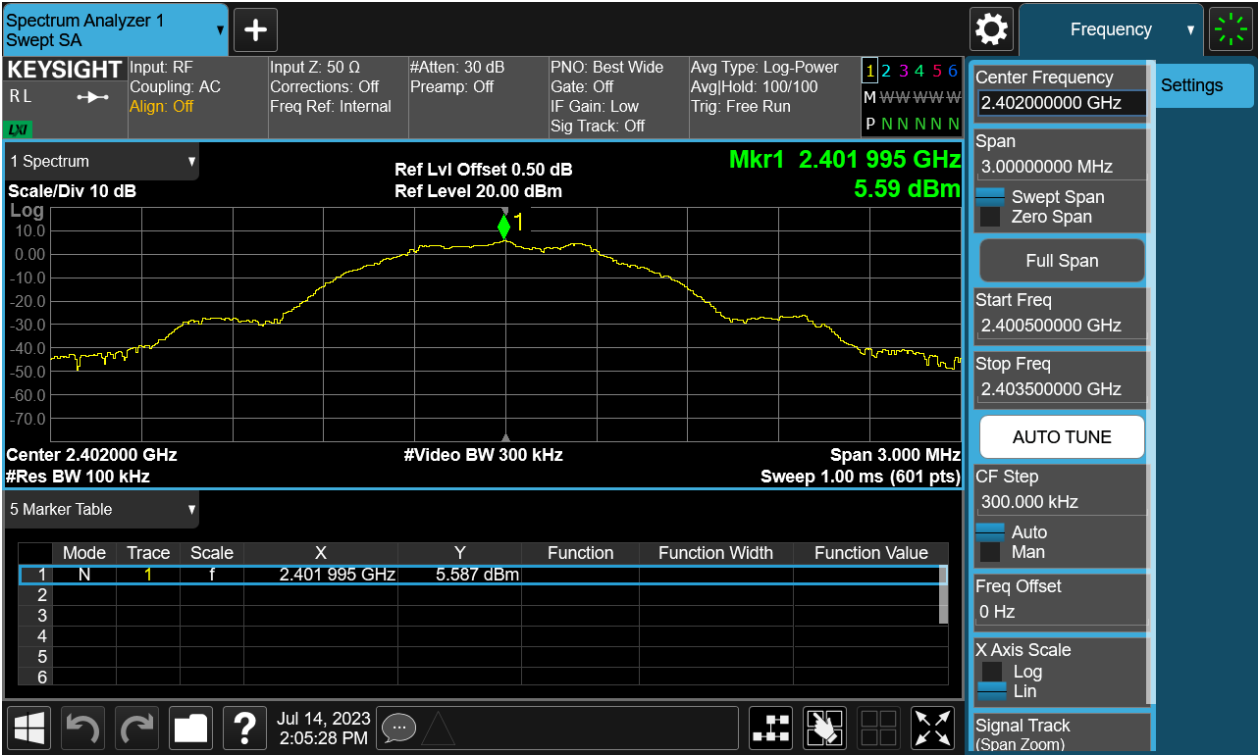
: 56%

For details refer to following test plot.

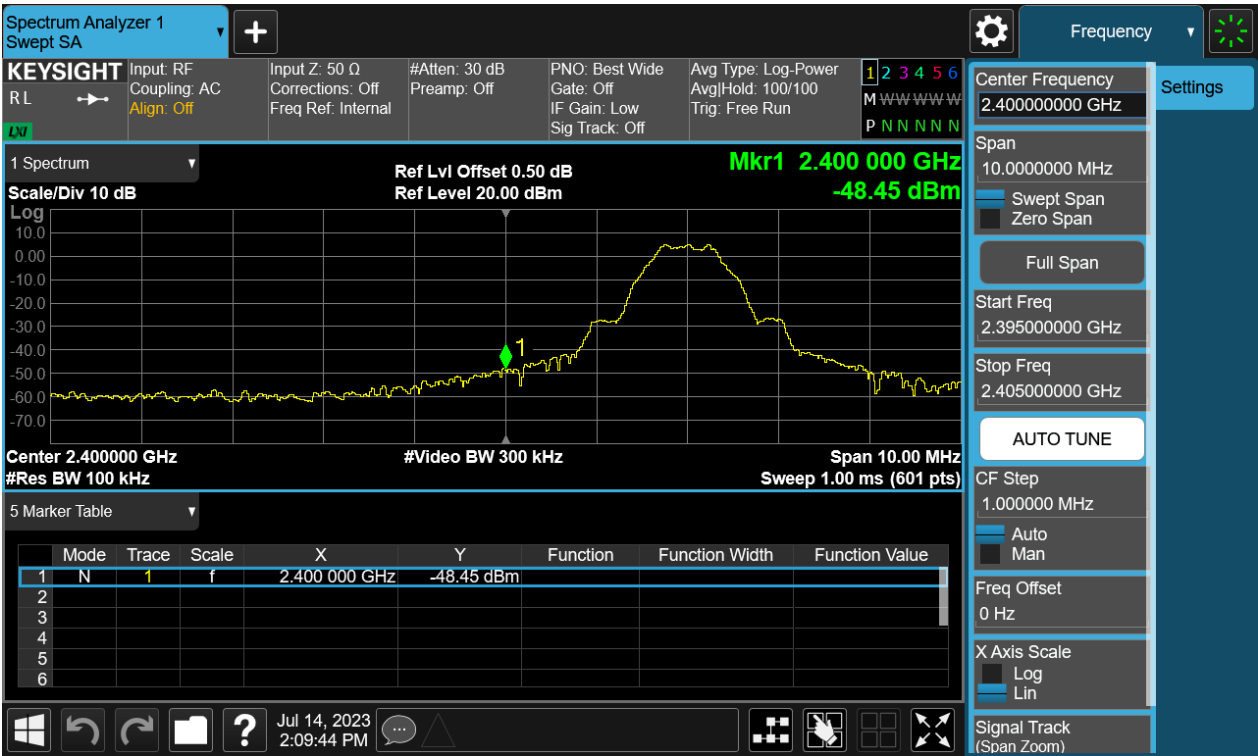
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Figure 10: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE Carrier Level



## Band Edge



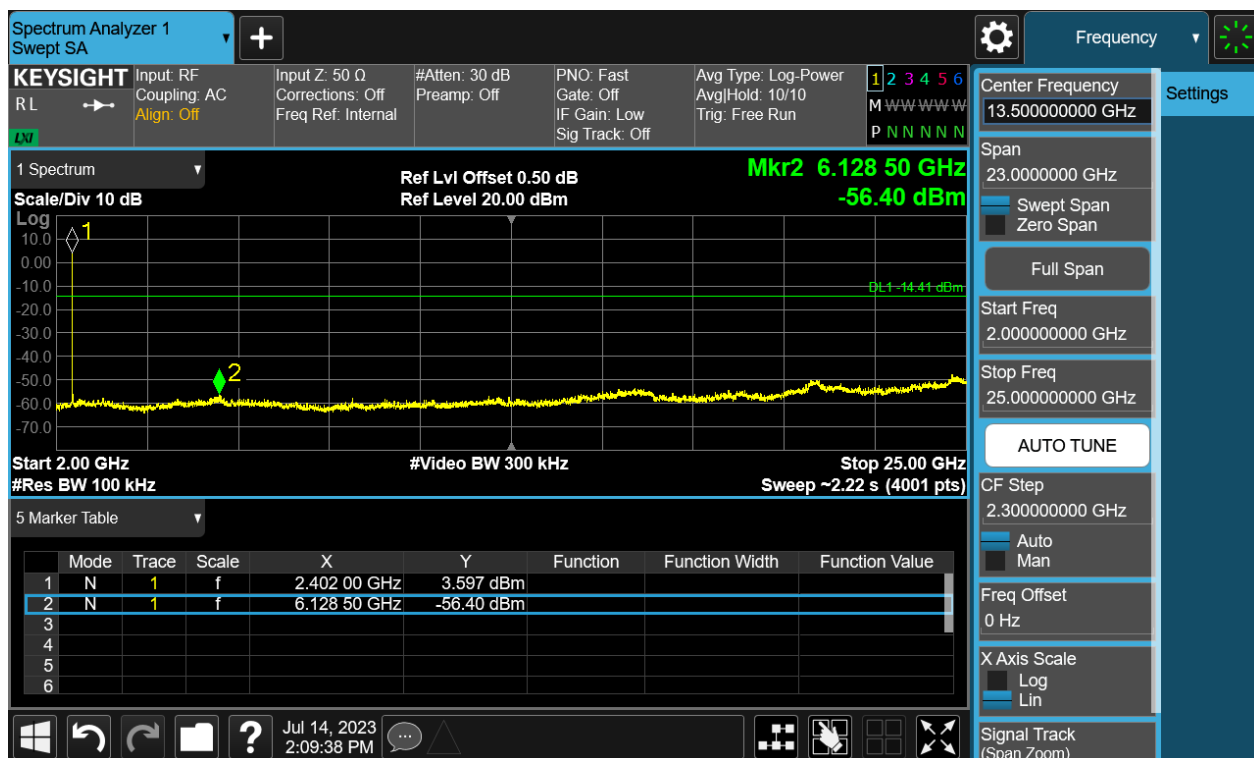
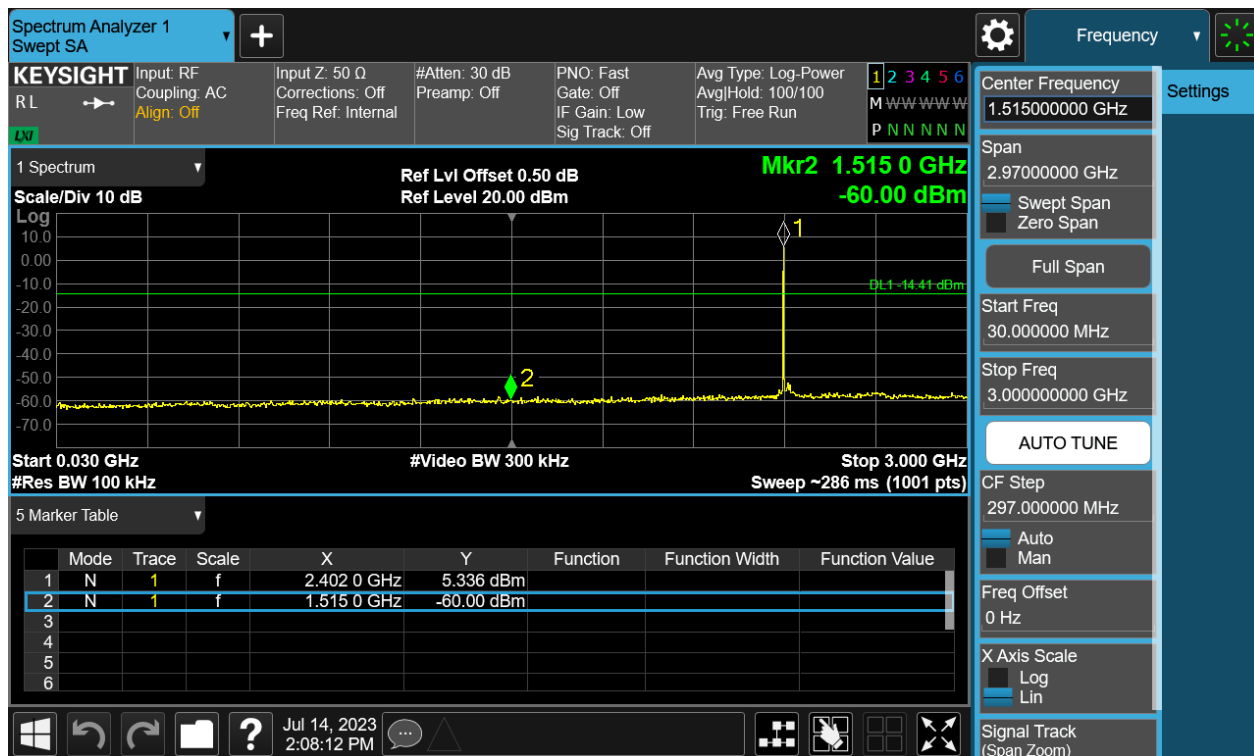
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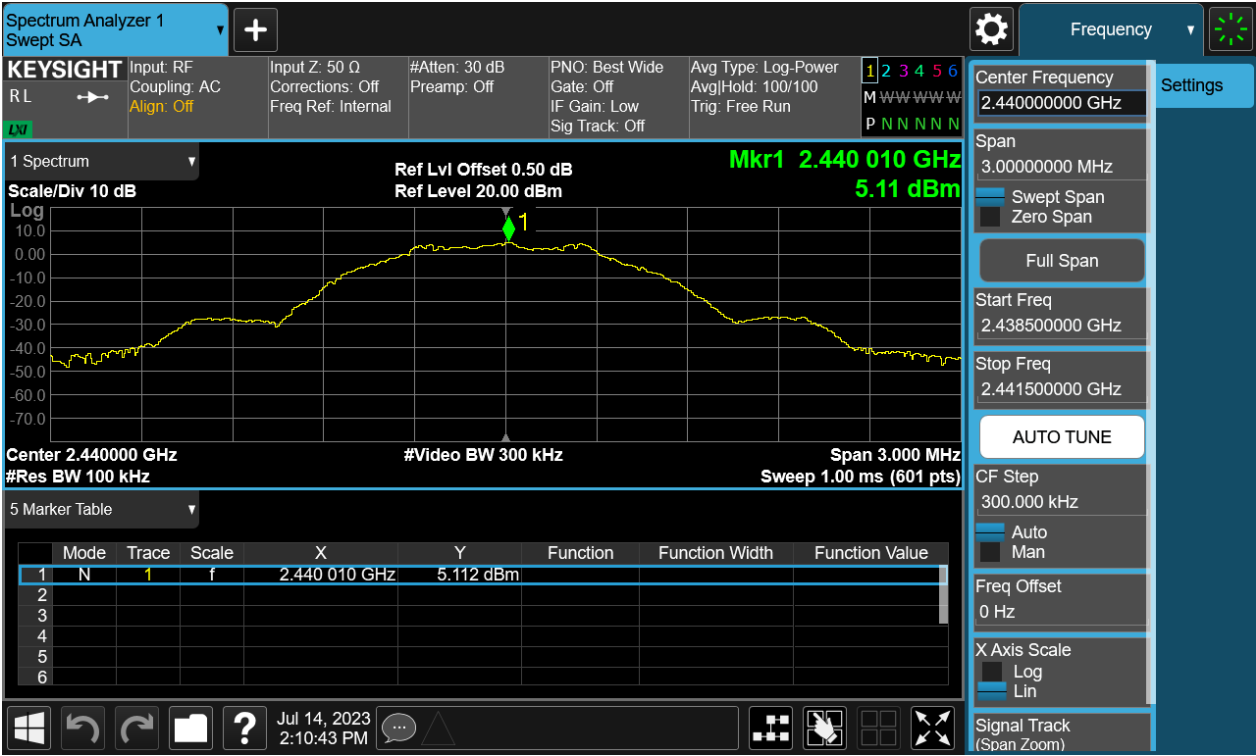
## Conducted spurious emissions 30MHz-25GHz



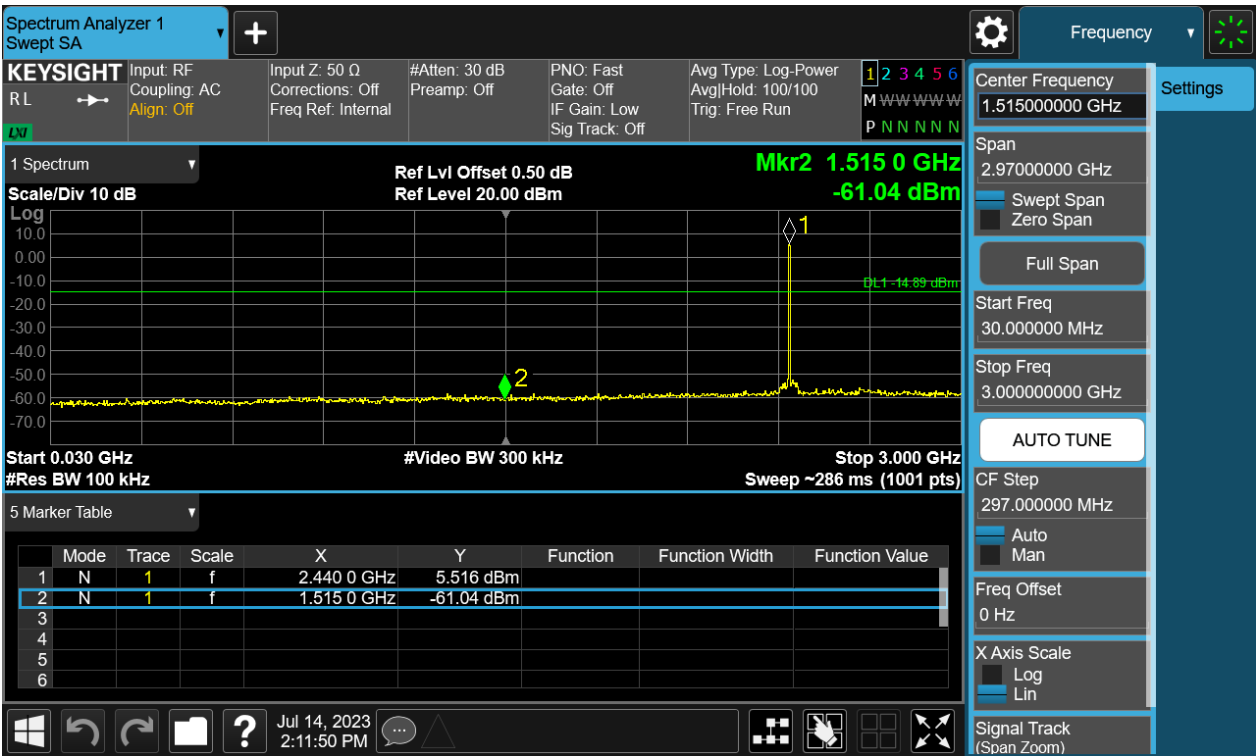
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Figure 11: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE Carrier Level



Conducted spurious emissions 30MHz-25GHz



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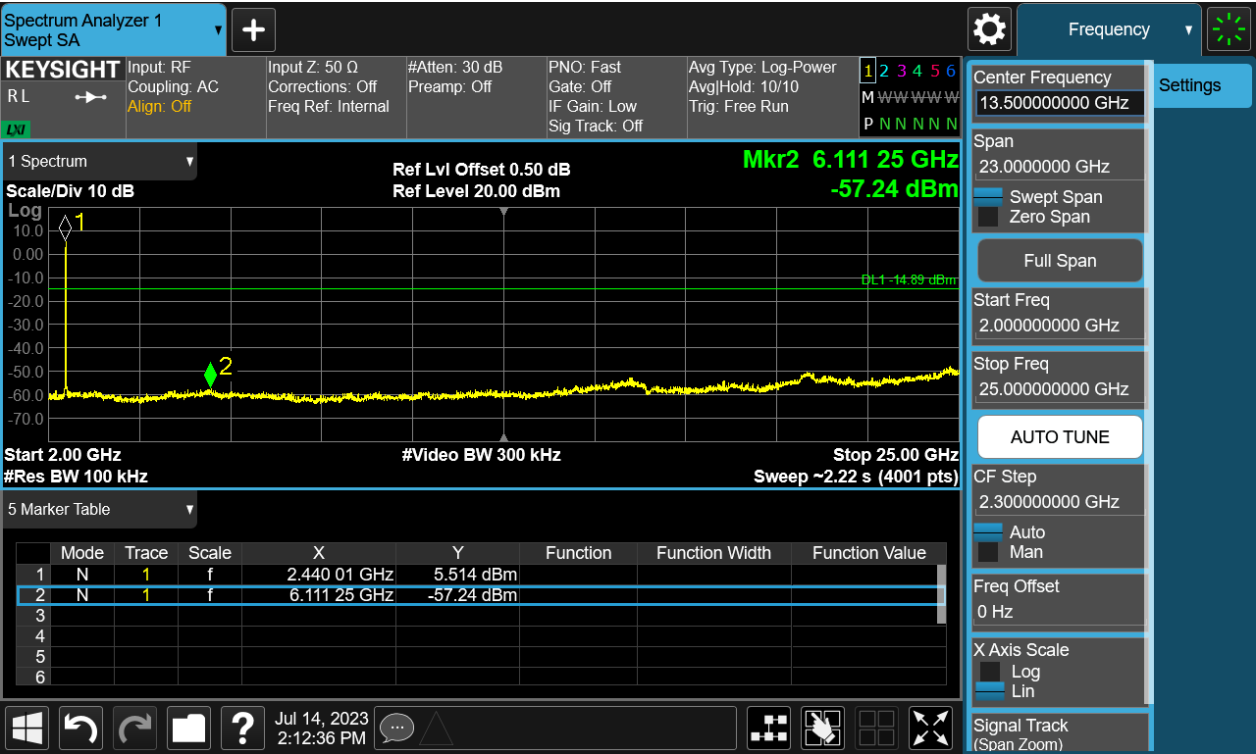
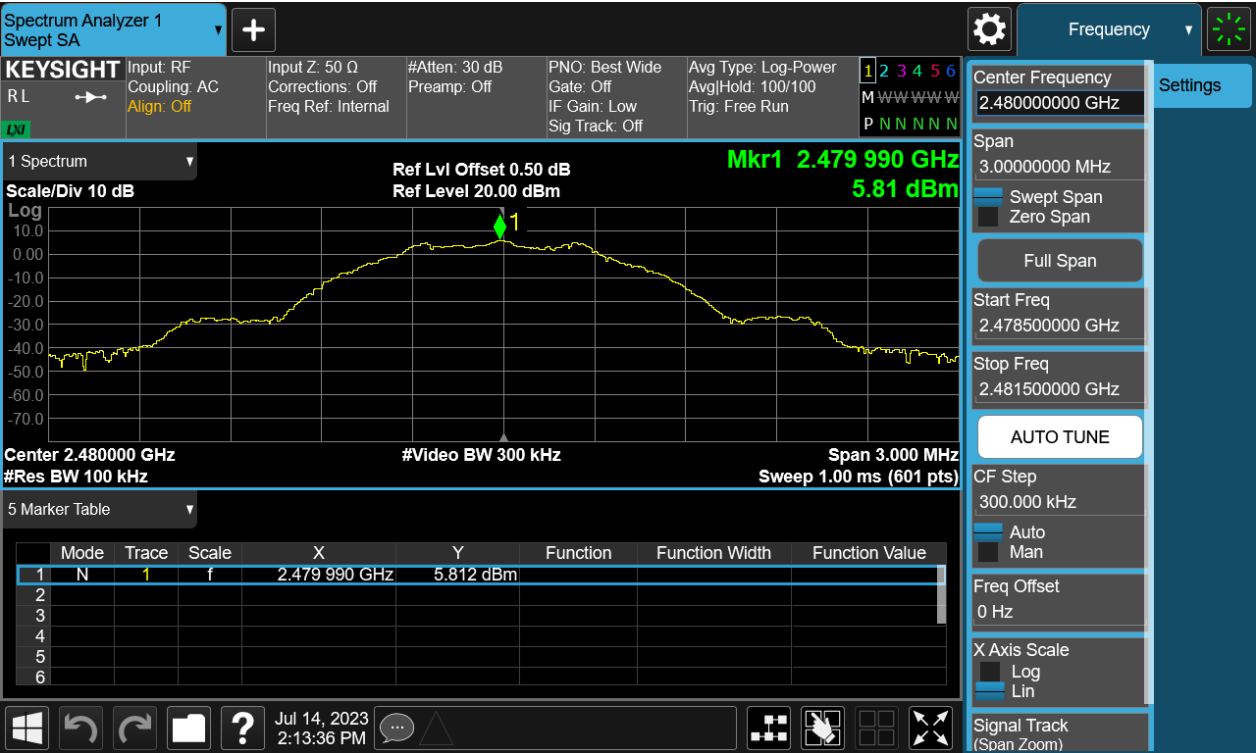


Figure 12: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE Carrier Level



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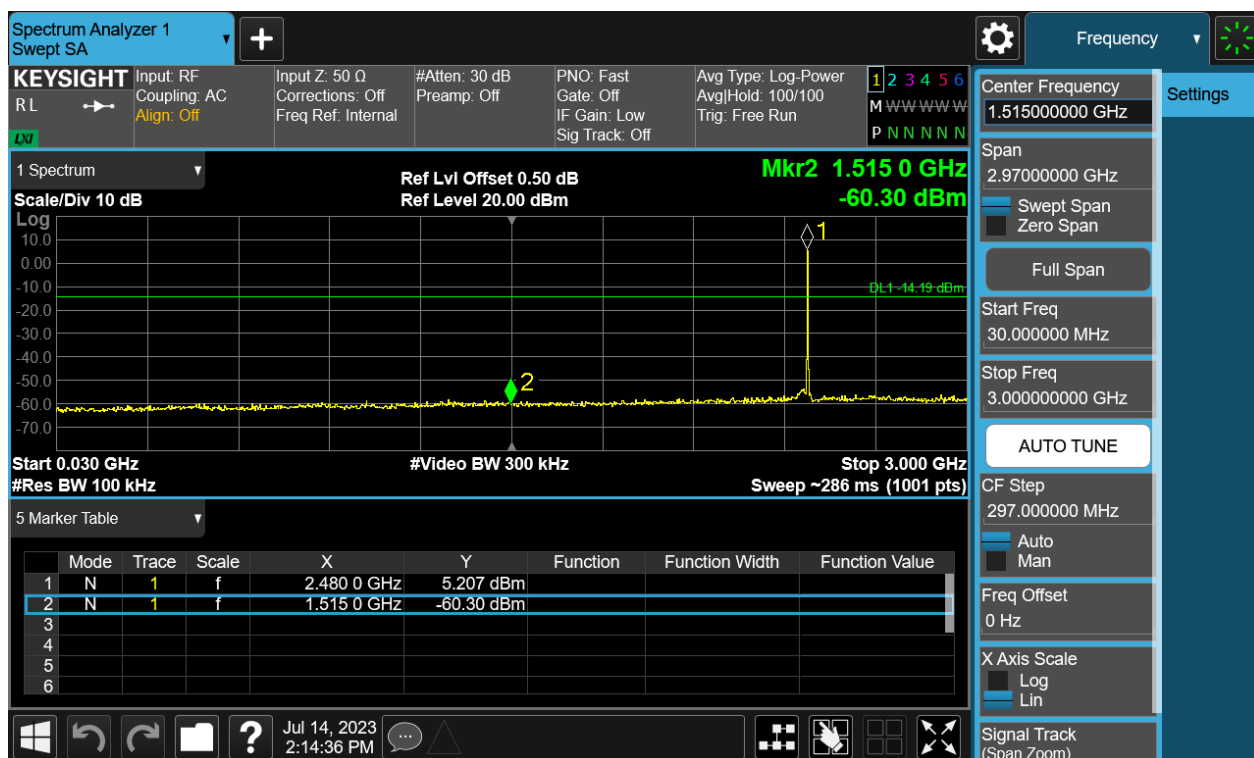
Date: 2023-08-07

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## Band Edge



## Conducted spurious emissions 30MHz-25GHz

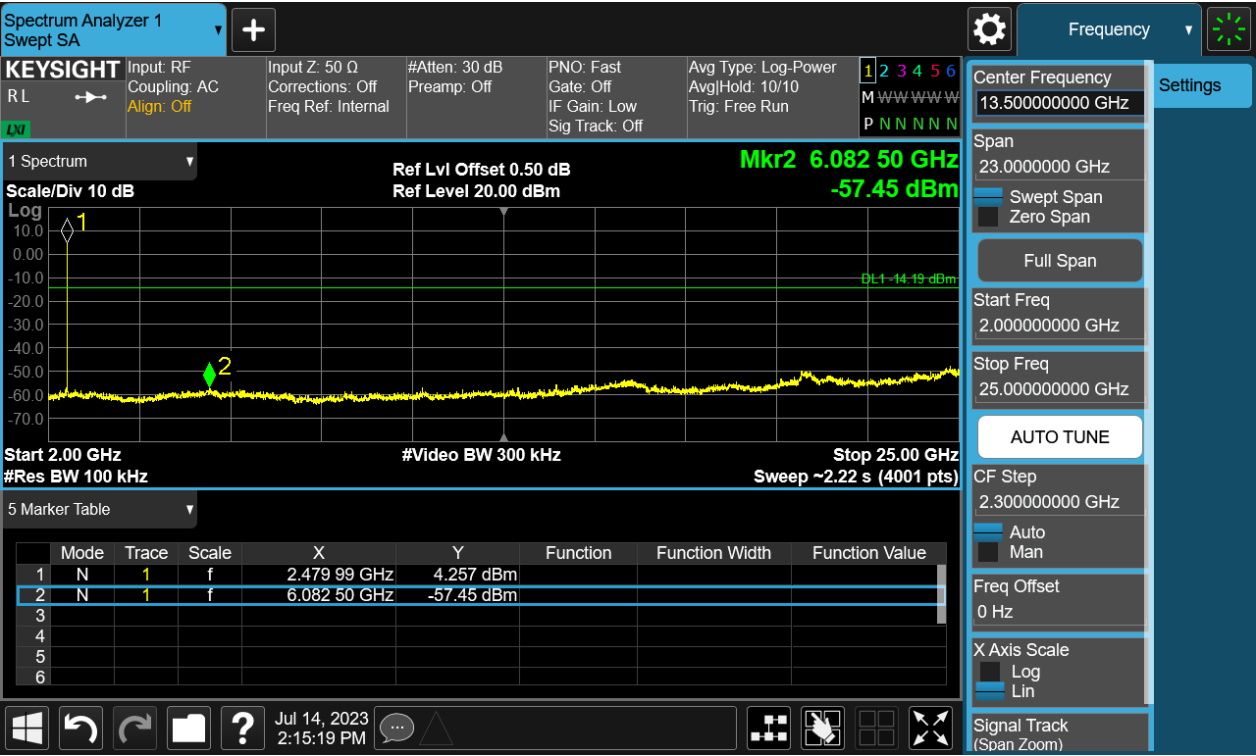


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## 4.1.6 Radiated Emission

### RESULT:

**PASS**

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d), 15.205, 15.209                                  |
| Requirement       | : ANSI C63.10-2013 clause 11.12,<br>KDB 558074 D01 v05r02, Clause 8.6 |
| Kind of test site | : 3m Semi-Anechoic Chamber                                            |

### Test setup

|                     |                   |
|---------------------|-------------------|
| Test Channel        | : Low/Middle/High |
| Operation Mode      | : A               |
| Ambient temperature | : 24.5°C          |
| Relative humidity   | : 53%             |

### Notes

*Test plots please refer to the annex document "SHE23060104-02AE DATA BLE-TX EXHIBIT A".*

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported. In addition, During 30MHz to 1GHz test frequency range, only the worst mode data was reported in this report.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

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## 4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

**PASS**

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Test standard     | : FCC Part 15.247(d), 15.205, 15.209                                  |
| Requirement       | : ANSI C63.10-2013 clause 11.13,<br>KDB 558074 D01 v05r02, Clause 8.7 |
| Kind of test site | : 3m Semi-Anechoic Chamber                                            |

### Test setup

|                     |                   |
|---------------------|-------------------|
| Test Channel        | : Low/Middle/High |
| Operation Mode      | : A.1             |
| Ambient temperature | : 24.5°C          |
| Relative humidity   | : 53%             |

### Notes

*Test plots please refer to the annex document "SHE23060104-02AE DATA BLE-TX EXHIBIT A".*

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## 4.2 Mains Emissions

### 4.2.1 Conducted Emission on AC Mains

RESULT: **PASS**

|                   |                                |
|-------------------|--------------------------------|
| Test standard     | : FCC Part 15.207(a)           |
| Requirement       | : ANSI C63.10-2013, Clause 6.2 |
| Kind of test site | : Shielded room                |

#### Test setup

|                     |                                      |
|---------------------|--------------------------------------|
| Input Voltage       | : which received AC 120V, 60Hz Power |
| Operation Mode      | : A.1.a                              |
| Earthing            | : Disconnected to GND                |
| Ambient temperature | : 21°C                               |
| Relative humidity   | : 50%                                |

For details refer to following test plot.

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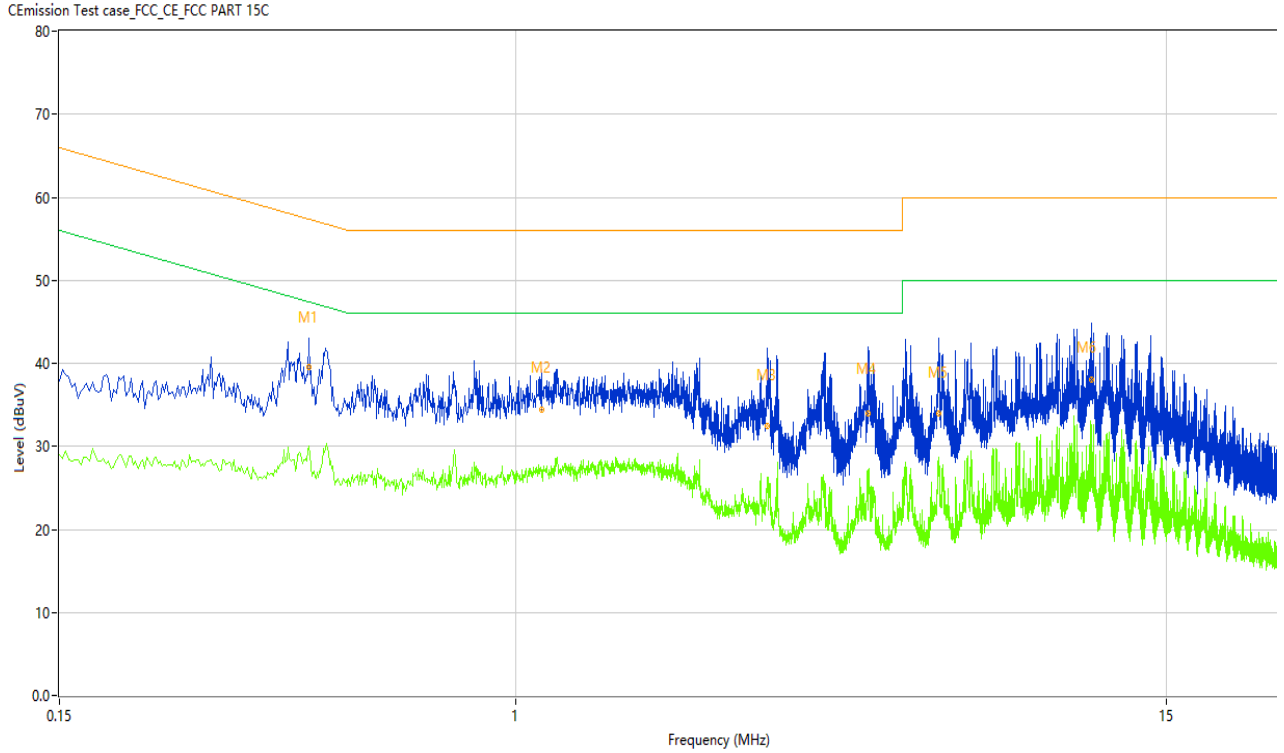
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Note: The all configurations were tested respectively, but only the worst data (at middle channel) shown here.

**Figure 13: Conducted Emission on AC Mains, L Phase**



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.424           | 47.20          | 9.97        | 57.37        | 10.17       | Peak     | L    | Pass    |
| 1*  | 0.424           | 39.48          | 9.97        | 57.37        | 17.89       | QP       | L    | Pass    |
| 1** | 0.424           | 30.09          | 9.97        | 47.37        | 17.28       | AV       | L    | Pass    |
| 2   | 1.114           | 41.75          | 9.83        | 56.00        | 14.25       | Peak     | L    | Pass    |
| 2*  | 1.114           | 34.36          | 9.83        | 56.00        | 21.64       | QP       | L    | Pass    |
| 2** | 1.114           | 27.23          | 9.83        | 46.00        | 18.77       | AV       | L    | Pass    |
| 3   | 2.858           | 41.50          | 9.83        | 56.00        | 14.50       | Peak     | L    | Pass    |
| 3*  | 2.858           | 32.39          | 9.83        | 56.00        | 23.61       | QP       | L    | Pass    |
| 3** | 2.858           | 25.93          | 9.83        | 46.00        | 20.07       | AV       | L    | Pass    |
| 4   | 4.340           | 42.17          | 9.82        | 56.00        | 13.83       | Peak     | L    | Pass    |
| 4*  | 4.340           | 34.00          | 9.82        | 56.00        | 22.00       | QP       | L    | Pass    |
| 4** | 4.340           | 26.24          | 9.82        | 46.00        | 19.76       | AV       | L    | Pass    |
| 5   | 5.818           | 42.87          | 9.81        | 60.00        | 17.13       | Peak     | L    | Pass    |
| 5*  | 5.818           | 33.95          | 9.81        | 60.00        | 26.05       | QP       | L    | Pass    |
| 5** | 5.818           | 27.81          | 9.81        | 50.00        | 22.19       | AV       | L    | Pass    |
| 6   | 10.980          | 45.11          | 9.66        | 60.00        | 14.89       | Peak     | L    | Pass    |
| 6*  | 10.980          | 37.96          | 9.66        | 60.00        | 22.04       | QP       | L    | Pass    |
| 6** | 10.980          | 32.67          | 9.66        | 50.00        | 17.33       | AV       | L    | Pass    |

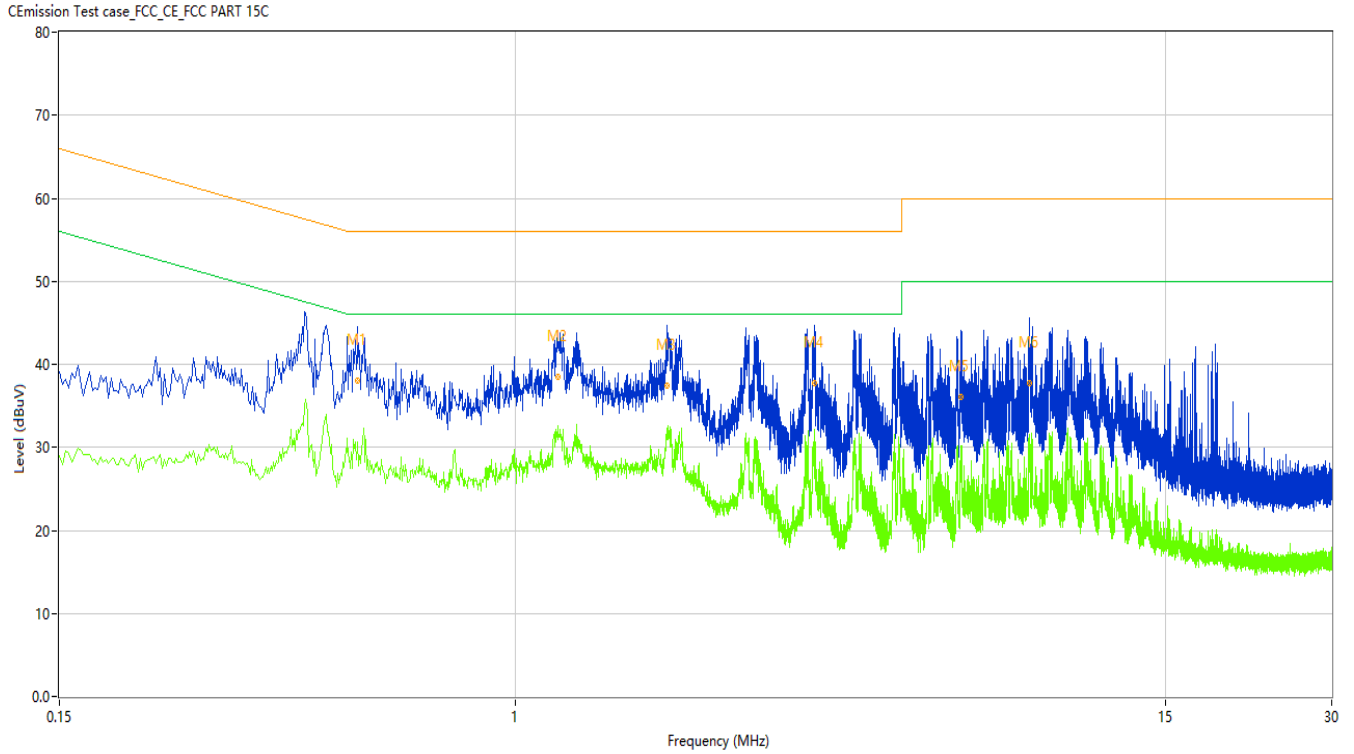
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**Figure 14: Conducted Emission on AC Mains, N Phase**



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|------|---------|
| 1   | 0.520           | 44.75          | 10.07       | 56.00        | 11.25       | Peak     | N    | Pass    |
| 1*  | 0.520           | 38.11          | 10.07       | 56.00        | 17.89       | QP       | N    | Pass    |
| 1** | 0.520           | 30.66          | 10.07       | 46.00        | 15.34       | AV       | N    | Pass    |
| 2   | 1.194           | 44.23          | 9.95        | 56.00        | 11.77       | Peak     | N    | Pass    |
| 2*  | 1.194           | 38.45          | 9.95        | 56.00        | 17.55       | QP       | N    | Pass    |
| 2** | 1.194           | 32.54          | 9.95        | 46.00        | 13.46       | AV       | N    | Pass    |
| 3   | 1.880           | 44.01          | 9.94        | 56.00        | 11.99       | Peak     | N    | Pass    |
| 3*  | 1.880           | 37.40          | 9.94        | 56.00        | 18.60       | QP       | N    | Pass    |
| 3** | 1.880           | 32.29          | 9.94        | 46.00        | 13.71       | AV       | N    | Pass    |
| 4   | 3.476           | 44.21          | 9.90        | 56.00        | 11.79       | Peak     | N    | Pass    |
| 4*  | 3.476           | 37.79          | 9.90        | 56.00        | 18.21       | QP       | N    | Pass    |
| 4** | 3.476           | 32.20          | 9.90        | 46.00        | 13.80       | AV       | N    | Pass    |
| 5   | 6.404           | 44.63          | 9.81        | 60.00        | 15.37       | Peak     | N    | Pass    |
| 5*  | 6.404           | 36.12          | 9.81        | 60.00        | 23.88       | QP       | N    | Pass    |
| 5** | 6.404           | 30.18          | 9.81        | 50.00        | 19.82       | AV       | N    | Pass    |
| 6   | 8.514           | 45.38          | 9.80        | 60.00        | 14.62       | Peak     | N    | Pass    |
| 6*  | 8.514           | 37.78          | 9.80        | 60.00        | 22.22       | QP       | N    | Pass    |
| 6** | 8.514           | 31.61          | 9.80        | 50.00        | 18.39       | AV       | N    | Pass    |

# TEST REPORT

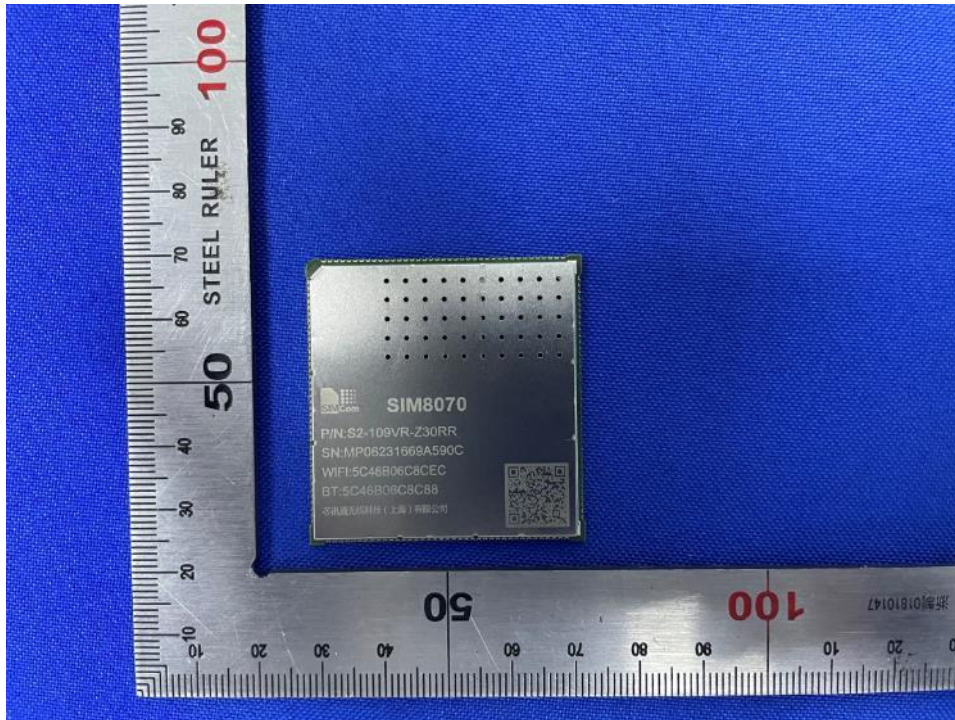
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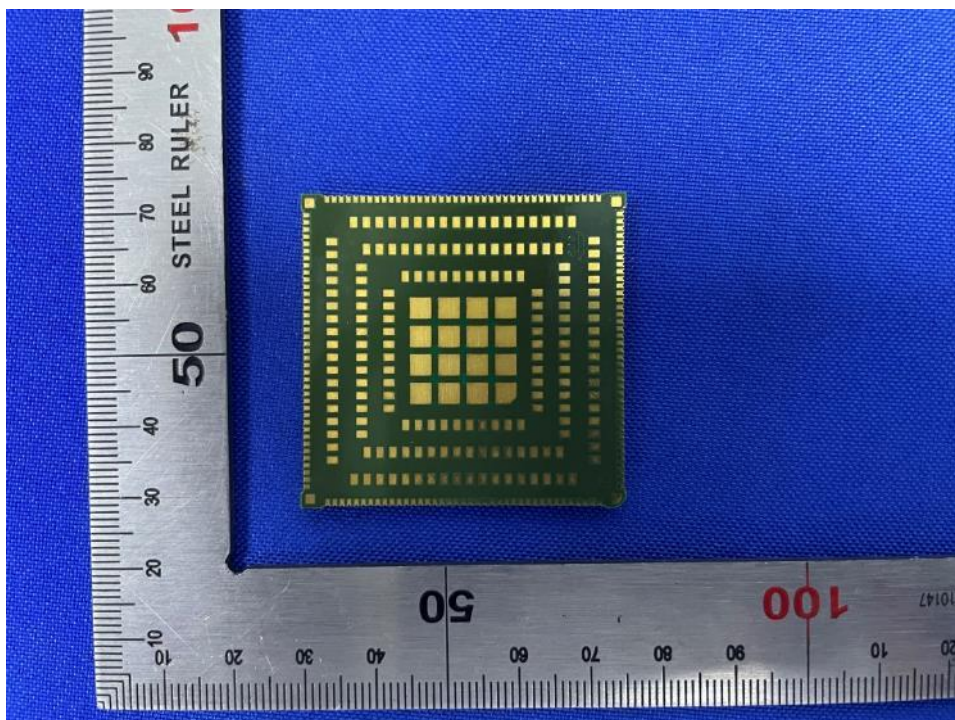
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## 5 Appendixes

### 5.1 Photographs of the Sample



Front of the sample



Rear of the sample

# TEST REPORT

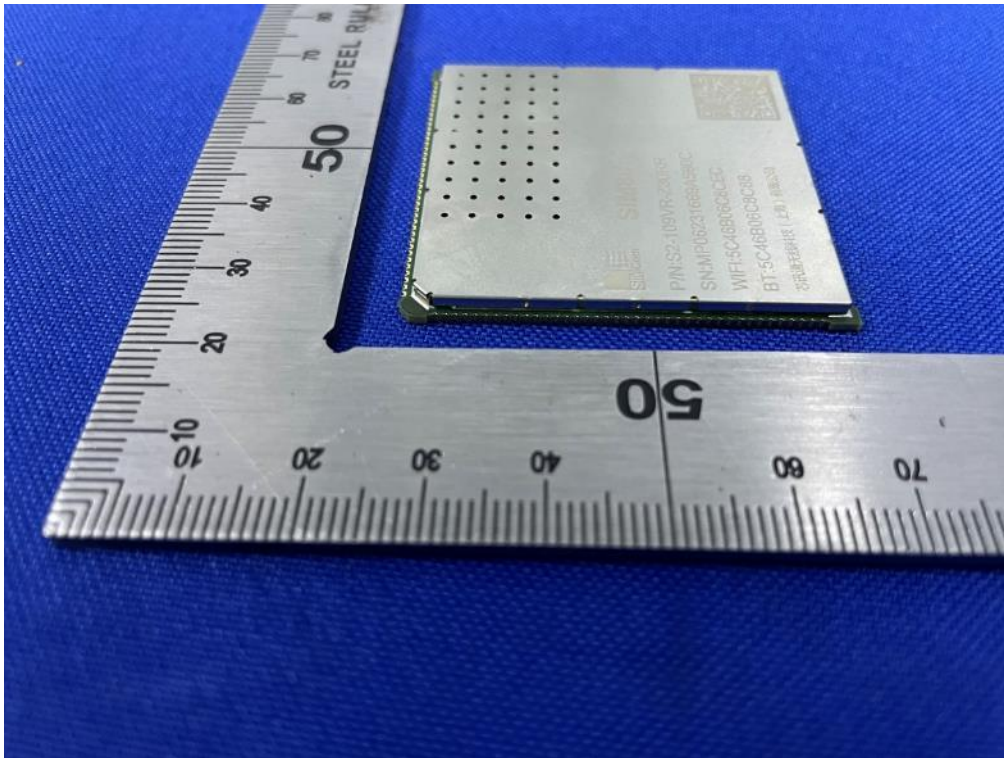
Report No.:

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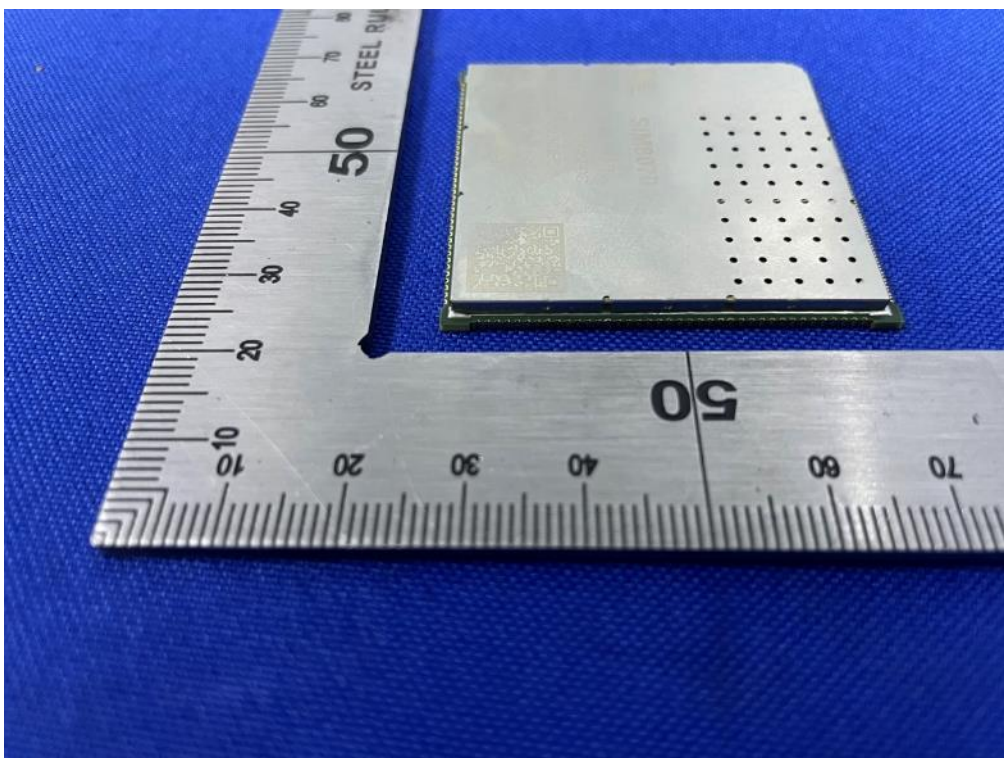
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Left of the sample



Right of the sample

# TEST REPORT

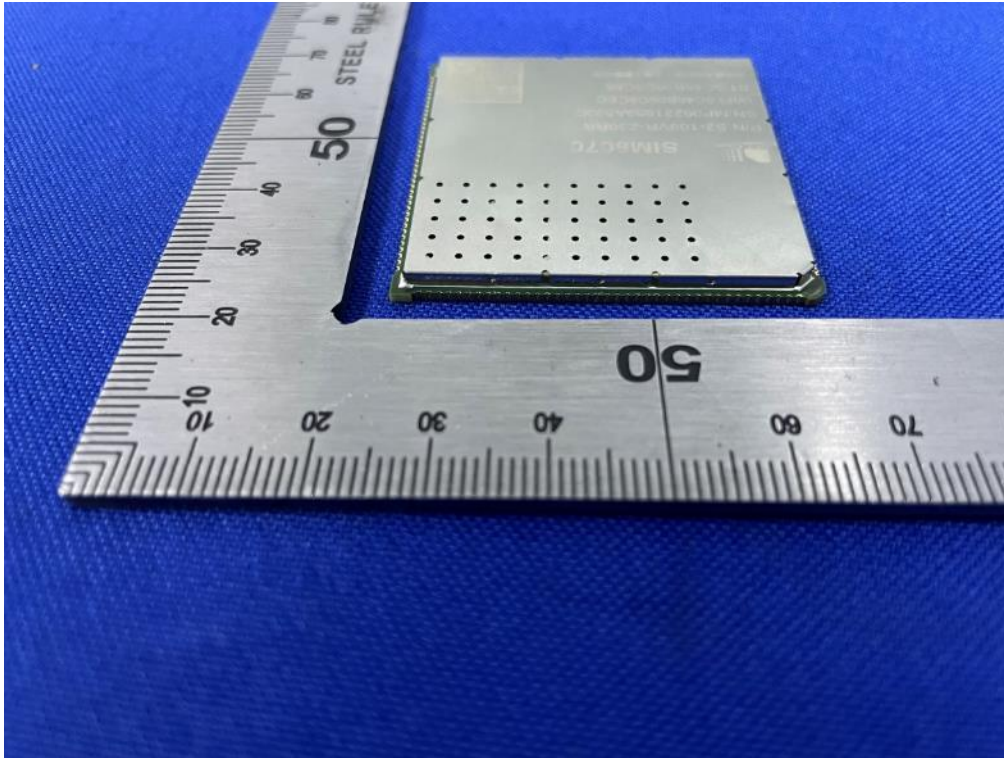
Report No.:

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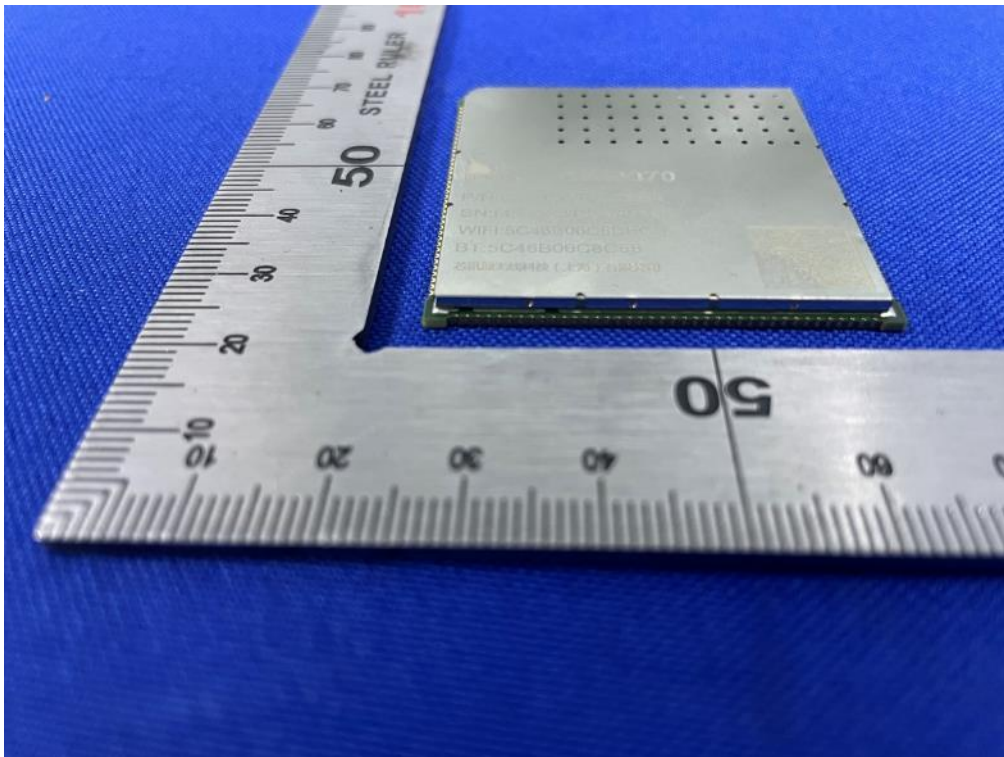
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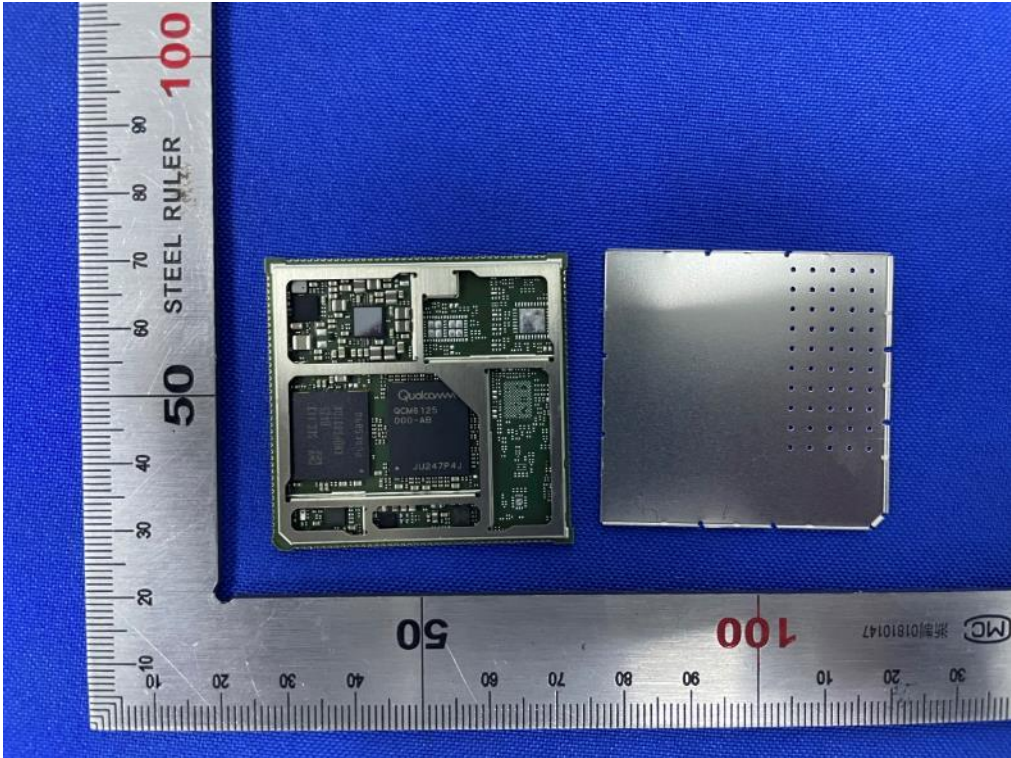


Top of the sample

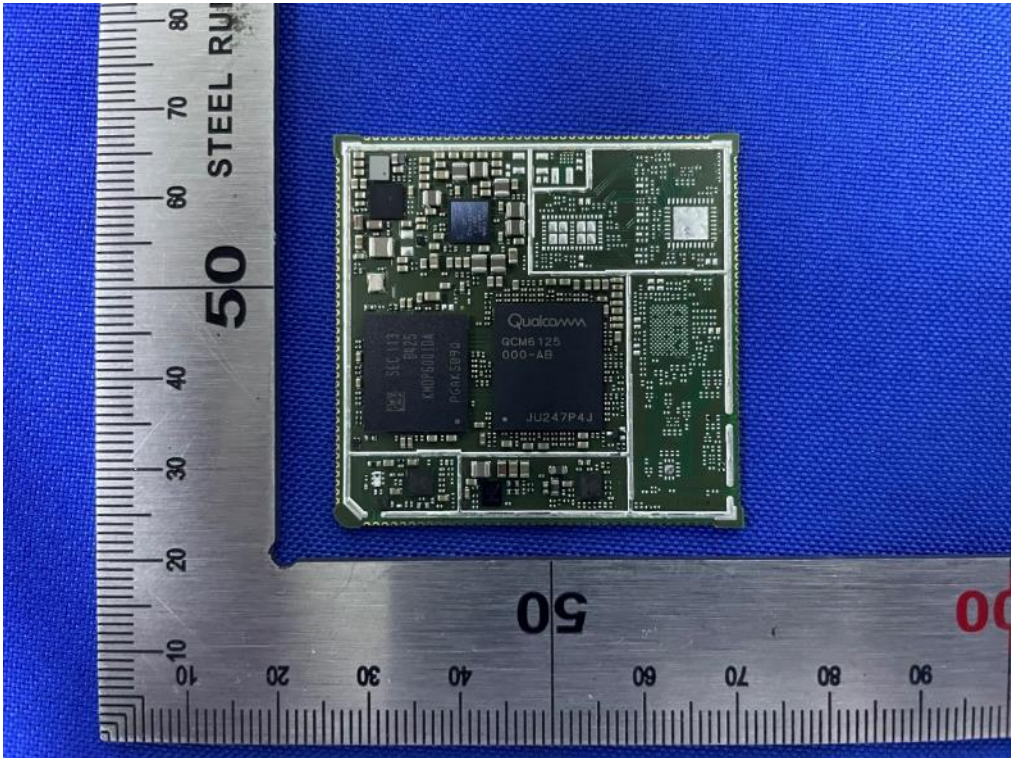


Bottom of the sample

# TEST REPORT

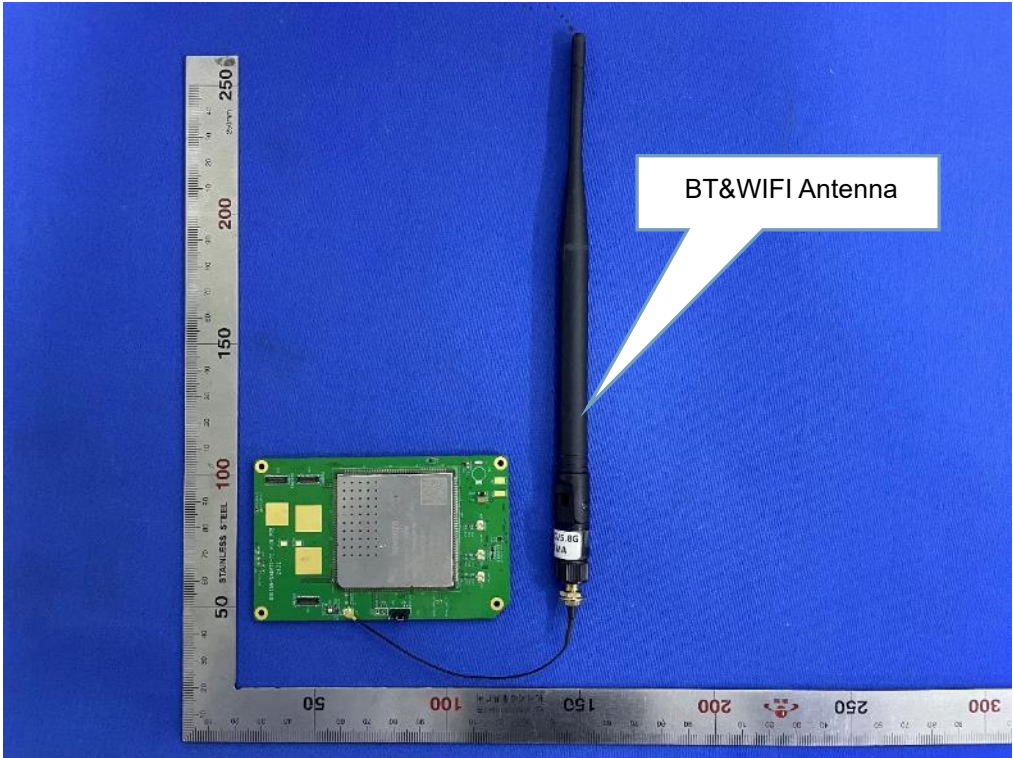


Open of the sample



Internal-1 of the sample

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Antenna Position

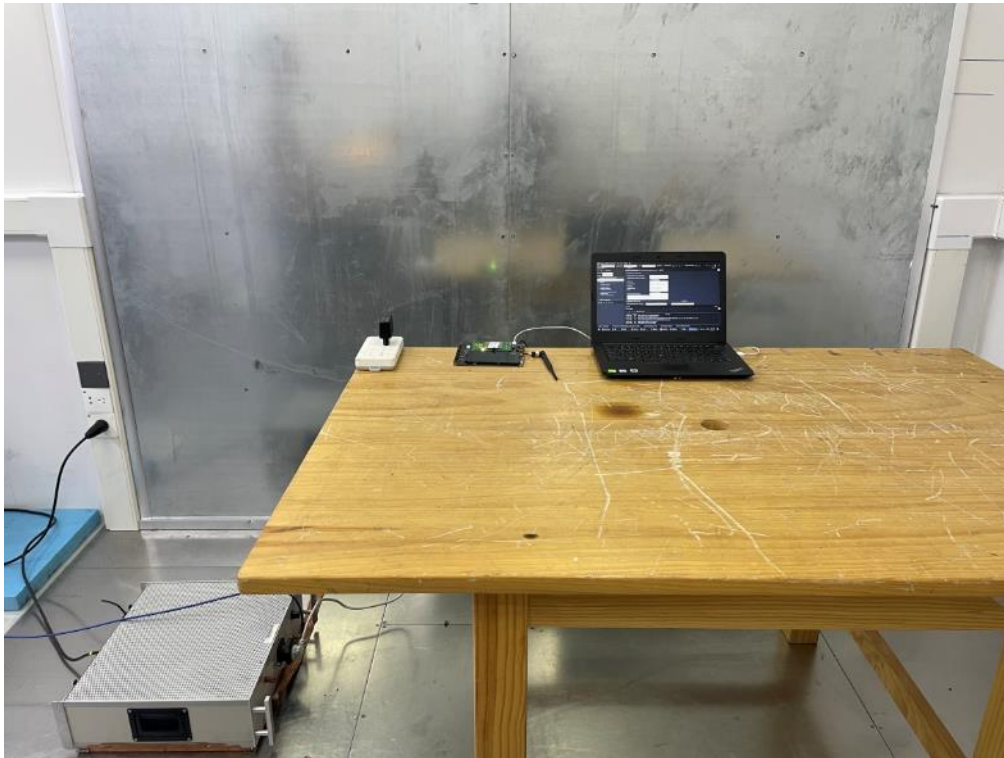
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## 5.2 Set-up for Conducted Emissions



## 5.3 Set-up for Conducted RF test at Antenna Port



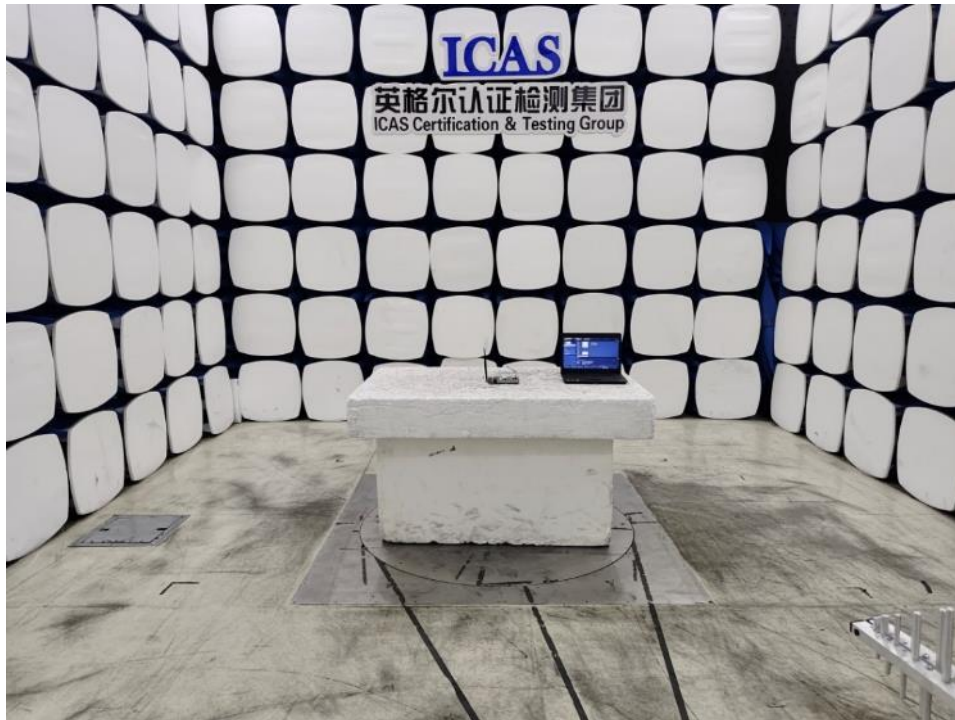
# TEST REPORT

Report No.: SHE23060104-02AE

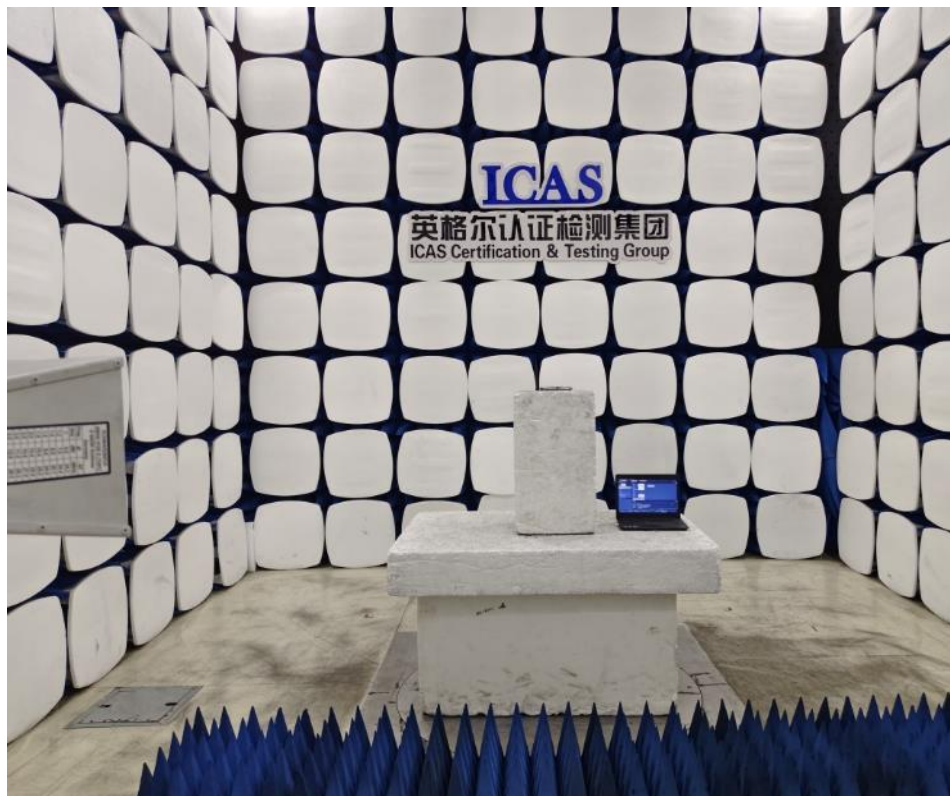
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## 5.4 Set-up for Spurious Emissions below 1GHz



## 5.5 Set-up for Spurious Emissions above 1GHz



\*\*\*End of the report\*\*\*