Certificate #7130.01

# FCC Radio Test Report

## FCC ID: 2APJ4-SLM770A

**This report concerns: Original Grant**

| | | |
|---|---|---|
| **Project No.** | : | 2402C072 |
| **Equipment** | : | 4G LTE Module |
| **Brand Name** | : | MEIGLink |
| **Test Model** | : | SLM770A |
| **Series Model** | : | N/A |
| **Applicant** | : | MeiG Smart Technology Co., Ltd |
| **Address** | : | 2nd Floor,Office Building,No.5 LingxiaRoad,Fenghuang,Fuyong Street,Bao'an District,Shenzhen,China |
| **Manufacturer** | : | MeiG Smart Technology Co., Ltd |
| **Address** | : | 2nd Floor,Office Building,No.5 LingxiaRoad,Fenghuang,Fuyong Street,Bao'an District,Shenzhen,China |
| **Date of Receipt** | : | Feb. 07, 2024 |
| **Date of Test** | : | Feb. 18, 2024 ~ Apr. 28, 2024 |
| **Issued Date** | : | Apr. 30, 2024 |
| **Report Version** | : | R00 |
| **Test Sample** | : | Engineering Sample No.: SSL2024020714 and SSL2024020717 for radiated, SSL2024020714 and SSL2024020715 for conducted. |
| **Standard(s)** | : | 47 CFR FCC Part 22 Subpart H<br>47 CFR FCC Part 2 |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

**Prepared by :** Edward Li

Edward Li

**Approved by :** Steven Lu

Steven Lu

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**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL**'s laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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## REPORT ISSUED HISTORY

| Report No. | Version | Description | Issued Date | Note |
|---|---|---|---|---|
| BTL-FCCP-1-2402C072 | R00 | Original Report. | Apr. 30, 2024 | Valid |

## 1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:
ANSI C63.26-2015
The following reference test guidance is not within the scope of accreditation of A2LA:
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC Part 22 Subpart H & Part 2 | | | |
|---|---|---|---|
| **Standard(s) Section** | **Test Item** | **Judgment** | **Remark** |
| 2.1046 | Output Power | PASS | ------ |
| 22.913(a)(5) | Effective Radiated Power | PASS | ------ |
| 2.1049 | Occupied Bandwidth | PASS | ------ |
| 2.1051<br>22.917(a) | Conducted Spurious Emissions | PASS | ------ |
| 2.1053<br>22.917(a) | Radiated Spurious Emissions | PASS | ------ |
| 22.917(a) | Band Edge Measurements | PASS | ------ |
| 22.913(d) | Peak To Average Ratio | PASS | ------ |
| 2.1055<br>22.355 | Frequency Stability | PASS | ------ |

Note:
(1) “N/A” denotes test is not applicable in this test report.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.
BTL's Registration Number for FCC: 747969
BTL's Designation Number for FCC: CN1377

## 2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. Radiated Measurement:

| Test Site | Method | Measurement Frequency Range | *U*,(dB) |
|---|---|---|---|
| SSL-CB01 | CISPR | 9kHz ~ 30MHz | 2.74 |

| Test Site | Method | Measurement Frequency Range | Ant. H / V | *U*,(dB) |
|---|---|---|---|---|
| SSL-CB01 (3m) | CISPR | 30MHz ~ 200MHz | V | 4.70 |
| | | 30MHz ~ 200MHz | H | 3.56 |
| | | 200MHz ~ 1,000MHz | V | 4.92 |
| | | 200MHz ~ 1,000MHz | H | 4.54 |

| Test Site | Method | Measurement Frequency Range | *U*,(dB) |
|---|---|---|---|
| SSL-CB01 (3m) | CISPR | 1GHz ~ 6GHz | 4.56 |
| | | 6GHz ~ 18GHz | 5.14 |

B. Other Measurement:

| Parameter | Uncertainty |
|---|---|
| Spectrum Bandwidth | ±3.8 % |
| Maximum Output Power | ±0.95 dB |
| Frequency Stability | ±0.16 dB |
| Temperature | ±0.08 °C |
| Time | ±0.58 % |
| Supply voltages | ±0.3 % |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 2.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Temperature | Humidity | Test Voltage | Tested By | Test Date |
|---|---|---|---|---|---|
| Output Power & ERP | 23-26.2°C | 40-42% | DC 3.8V | Gana Cai | Feb. 20, 2024~ Feb. 26, 2024 |
| Occupied Bandwidth | 23-26.2°C | 40-42% | DC 3.8V | Gana Cai | Feb. 20, 2024~ Feb. 26, 2024 |
| Conducted Spurious Emissions | 23-26.2°C | 40-42% | DC 3.8V | Gana Cai | Feb. 20, 2024~ Feb. 26, 2024 |
| Radiated Spurious Emissions (9 kHz to 30 MHz) | 25°C | 60% | DC 3.8V | Max Wang | Feb. 27, 2024 |
| Radiated Spurious Emissions (30 MHz to 1000 MHz) | 23°C | 50% | DC 3.8V | Max Wang | Feb. 25, 2024 Feb. 27, 2024 |
| Radiated Spurious Emissions (Above 1000 MHz) | 23°C | 50% | DC 3.8V | Max Wang | Feb. 25, 2024 |
| Band Edge | 23-26.2°C | 40-42% | DC 3.8V | Gana Cai | Feb. 20, 2024~ Feb. 26, 2024 |
| Peak to Average Ratio | 23-26.2°C | 40-42% | DC 3.8V | Gana Cai | Feb. 20, 2024~ Feb. 26, 2024 |
| Frequency Stability | Normal & Extreme | 40-42% | Normal & Extreme | Gana Cai | Feb. 20, 2024~ Feb. 26, 2024 |

# 3. GENERAL INFORMATION

## 3.1 GENERAL DESCRIPTION OF EUT

| | | | | | |
|---|---|---|---|---|---|
| Equipment | 4G LTE Module | | | | |
| Brand Name | MEIGLink | | | | |
| Test Model | SLM770A | | | | |
| Series Model | N/A | | | | |
| Model Difference(s) | N/A | | | | |
| Hardware Version | SLM770A_MB_V1.02 | | | | |
| Software Version | SLM770A-H_3.0.1_EQ100 | | | | |
| Power Source | DC voltage supplied from external power supply. | | | | |
| Power Rating | DC 3.8V | | | | |
| IMEI No. | Radiated | 861232062139917, 861232062139511 | | | |
| | Conducted | 861232062139917, 861232062139503 | | | |
| Modulation Type | GSM/GPRS | | GMSK | | |
| | EDGE | | GMSK, 8PSK | | |
| | WCDMA/HSDPA/HSUPA | | UL: QPSK,16QAM<br>DL: QPSK,16QAM,64QAM | | |
| | LTE | | UL: QPSK,16QAM<br>DL: QPSK,16QAM,64QAM | | |
| Max. ERP | GSM 850 / GPRS 850 | | GMSK | 29.55 | dBm |
| | EDGE 850 | | 8PSK | 24.55 | dBm |
| | WCDMA Band V | | QPSK | 20.27 | dBm |
| | HSDPA Band V | | QPSK | 20.04 | dBm |
| | HSUPA Band V | | QPSK | 20.10 | dBm |
| | LTE | Channel Bandwidth (MHz) | QPSK (dBm) | 16QAM (dBm) | |
| | Band 5 | 1.4 | 20.27 | 19.67 | |
| | | 3 | 20.00 | 19.25 | |
| | | 5 | 20.24 | 19.40 | |
| | | 10 | 20.03 | 19.28 | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

| GSM 850 | | | | |
|---|---|---|---|---|
| Test Frequency ID | UARFCN | Frequency of Uplink (MHz) | UARFCN | Frequency of Downlink (MHz) |
| Low Range | 128 | 824.2 | 137 | 869.2 |
| Mid Range | 190 | 836.6 | 199 | 881.6 |
| High Range | 251 | 848.8 | 260 | 893.8 |

| WCDMA Band V | | | | |
|---|---|---|---|---|
| Test Frequency ID | UARFCN | Frequency of Uplink (MHz) | UARFCN | Frequency of Downlink (MHz) |
| Low Range | 4132 | 826.4 | 4357 | 871.4 |
| Mid Range | 4182 | 836.4 | 4407 | 881.4 |
| High Range | 4233 | 846.6 | 4458 | 891.6 |

| LTE Band 5(UL: 824-849MHz,DL: 869-894MHz) | | | | | |
|---|---|---|---|---|---|
| Test Frequency ID | Bandwidth (MHz) | $N_{UL}$ | Frequency of Uplink (MHz) | $N_{DL}$ | Frequency of Downlink (MHz) |
| Low Range | 1.4 | 20407 | 824.7 | 2407 | 869.7 |
| | 3 | 20415 | 825.5 | 2415 | 870.5 |
| | 5 | 20425 | 826.5 | 2425 | 871.5 |
| | 10 | 20450 | 829 | 2450 | 874 |
| Mid Range | 1.4/3/5/10 | 20525 | 836.5 | 2525 | 881.5 |
| High Range | 1.4 | 20643 | 848.3 | 2643 | 893.3 |
| | 3 | 20635 | 847.5 | 2635 | 892.5 |
| | 5 | 20625 | 846.5 | 2625 | 891.5 |
| | 10 | 20600 | 844 | 2600 | 889 |

3. Table for Filed Antenna:

| Manufacturer | P/N | Antenna Type | Connector | Gain (dBi) | Note |
|---|---|---|---|---|---|
| ShenZhen VLG Wireless TECHNOLOGY CO,.LTD | 45-V1497-057-01 | Dipole | SMA | -1.1 | GSM 850 |
| | | | | -1.1 | WCDMA Band V |
| | | | | -1.1 | LTE Band 5 |

Note: The antenna gain is provided by the manufacturer.

### 3.2 DESCRIPTION OF TEST MODES

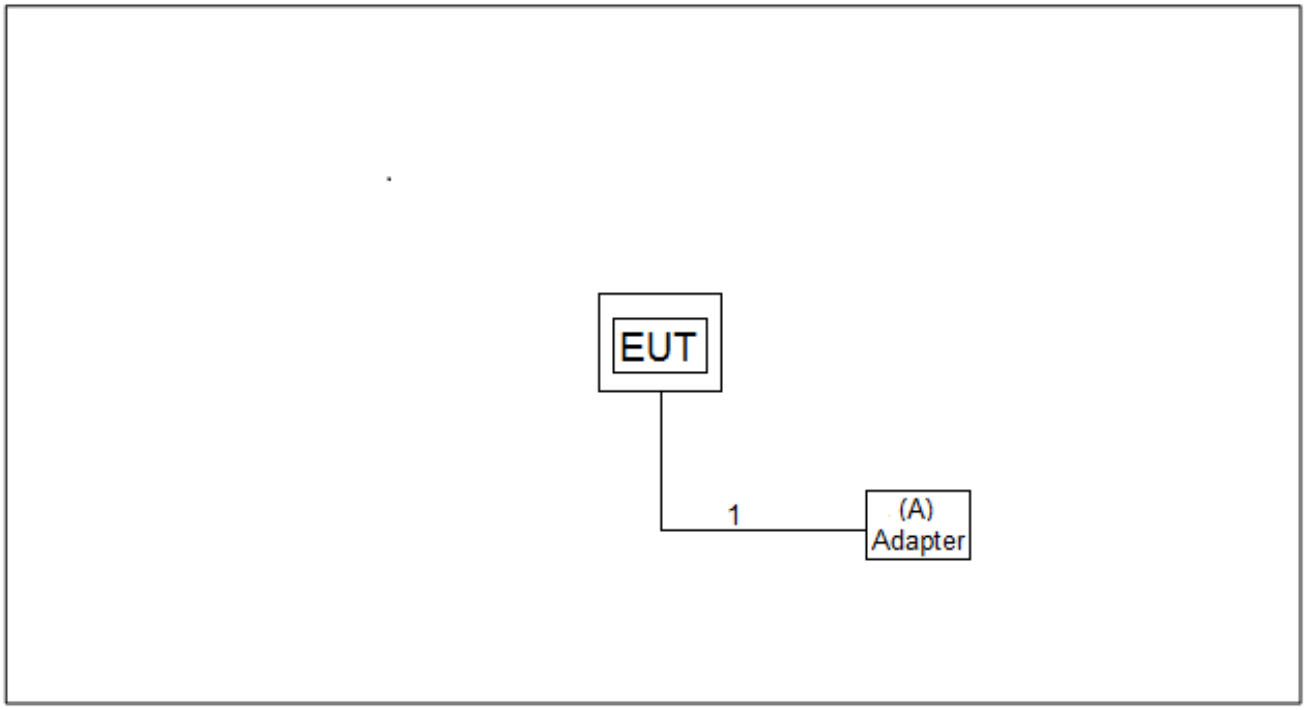
Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

| GSM MODE | | | |
|---|---|---|---|
| Test Item | Available Channel | Tested Channel | Mode |
| Output Power & ERP | 128 to 251 | 128, 190, 251 | GSM, GPRS, EDGE |
| Occupied Bandwidth | 128 to 251 | 128, 190, 251 | GSM, EDGE |
| Conducted Spurious Emissions | 128 to 251 | 190 | GSM, EDGE |
| Radiated Spurious Emissions | 128 to 251 | 190 | GSM |
| Band Edge | 128 to 251 | 128, 251 | GSM, EDGE |
| Peak to Average Ratio | 128 to 251 | 128, 190, 251 | GSM, EDGE |
| Frequency Stability | 128 to 251 | 190 | GSM |

| WCDMA BAND V MODE | | | |
|---|---|---|---|
| Test Item | Available Channel | Tested Channel | Mode |
| Output Power & ERP | 4132 to 4233 | 4132, 4182, 4233 | WCDMA, HSDPA, HSUPA |
| Occupied Bandwidth | 4132 to 4233 | 4132, 4182, 4233 | WCDMA |
| Conducted Spurious Emissions | 4132 to 4233 | 4182 | WCDMA |
| Radiated Spurious Emissions | 4132 to 4233 | 4182 | WCDMA |
| Band Edge | 4132 to 4233 | 4132, 4233 | WCDMA |
| Peak To Average Ratio | 4132 to 4233 | 4132, 4182, 4233 | WCDMA |
| Frequency Stability | 4132 to 4233 | 4182 | WCDMA |

| LTE BAND 5 MODE | | | | | |
|---|---|---|---|---|---|
| Test Item | Available Channel | Tested Channel | Channel Bandwidth | Modulation | Mode |
| Output Power & ERP | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK, 16QAM | 1RB/3RB/6RB |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK, 16QAM | 1RB/8RB/15RB |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK, 16QAM | 1RB/12RB/25RB |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK, 16QAM | 1RB/25RB/50RB |
| Occupied Bandwidth | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK, 16QAM | 6RB |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK, 16QAM | 15RB |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK, 16QAM | 25RB |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK, 16QAM | 50RB |
| Conducted Spurious Emissions | 20407 to 20643 | 20525 | 1.4MHz | QPSK | 1RB |
| | 20425 to 20625 | 20525 | 5MHz | QPSK | 1RB |
| | 20450 to 20600 | 20525 | 10MHz | QPSK | 1RB |
| Radiated Spurious Emissions | 20407 to 20643 | 20525 | 1.4MHz | QPSK | 1RB |
| | 20425 to 20625 | 20525 | 5MHz | QPSK | 1RB |
| | 20450 to 20600 | 20525 | 10MHz | QPSK | 1RB |
| Band Edge | 20407 to 20643 | 20407, 20643 | 1.4MHz | QPSK | 1RB/6RB |
| | 20415 to 20635 | 20415, 20635 | 3MHz | QPSK | 1RB/15RB |
| | 20425 to 20625 | 20425, 20625 | 5MHz | QPSK | 1RB/25RB |
| | 20450 to 20600 | 20450, 20600 | 10MHz | QPSK | 1RB/50RB |
| Peak To Average Ratio | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK, 16QAM | 1RB |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK, 16QAM | 1RB |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK, 16QAM | 1RB |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK, 16QAM | 1RB |
| Frequency Stability | 20450 to 20600 | 20525 | 10MHz | QPSK | 50RB |

### 3.3 BLOCK DIGRAM SHOWING THE CONFIGURATIONOFSYSTEMTESTED




### 2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. |
|---|---|---|---|---|
| A | Adapter | BAIJUNDA | AT-506E-120100JC | N/A |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|---|---|---|---|---|
| 1 | DC Cable | NO | NO | 1.2m |

# 4. TEST RESULT

## 4.1 OUTPUT POWER MEASUREMENT

### 4.1.1 LIMIT

Mobile / Portable station are limited to 7 watts e.r.p.

### 4.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5 or ANSI C63.26-2015 Section 5.2.

**EIRP / ERP:**

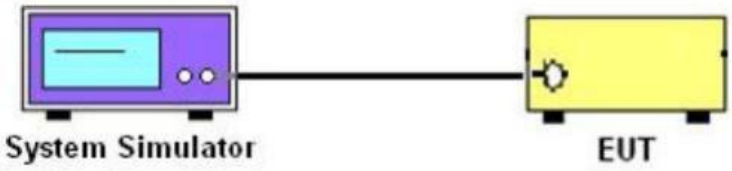
EIRP = Output Power + Antenan gain
ERP = EIPR - 2.15dBi

**Output Power:**

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

### 4.1.3 TEST SETUP LAYOUT

**Output Power Measurement**




### 4.1.4 TEST DEVIATION

No deviation

### 4.1.5 TEST RESULTS

Please refer to the APPENDIX A.

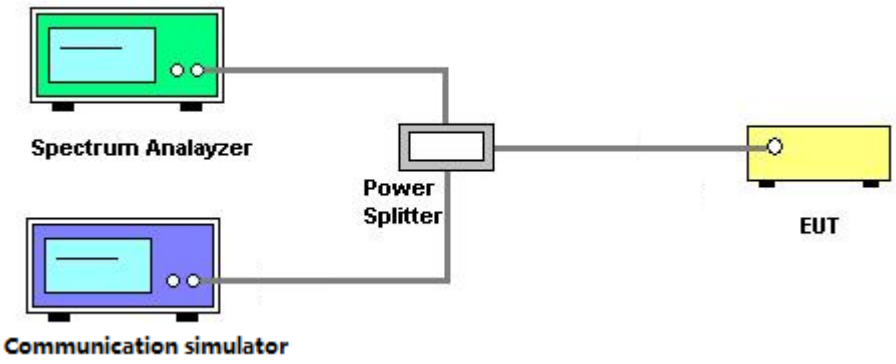
## 4.2 OCCUPIED BANDWIDTH MEASUREMENT

### 4.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4 or ANSI C63.26-2015 Section 5.4.

1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. RBW=(1% ~ 5%)*EBW
   VBW≥3* RBW
4. Set spectrum analyzer with Peak detector.

### 4.2.2 TEST SETUP LAYOUT




### 4.2.3 TEST DEVIATION

No deviation

### 4.2.4 TEST RESULTS

Please refer to the APPENDIX B.

## 4.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

### 4.3.1 LIMIT

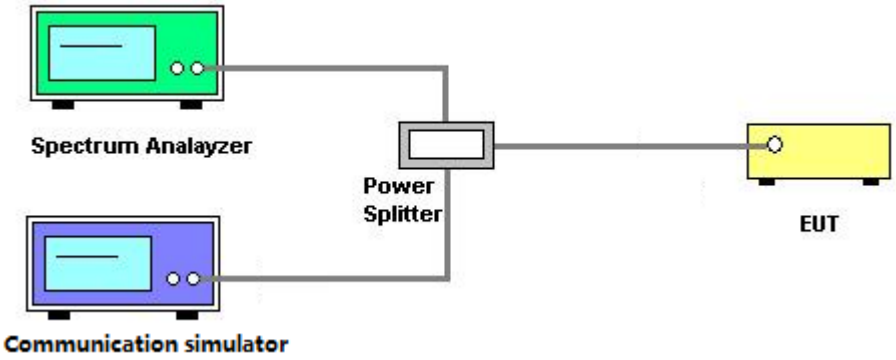
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

### 4.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 Section 5.7.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak or RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 4.3.3 TEST SETUP LAYOUT




### 4.3.4 TEST DEVIATION

No deviation

### 4.3.5 TEST RESULTS

Please refer to the APPENDIX C.

## 4.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

### 4.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

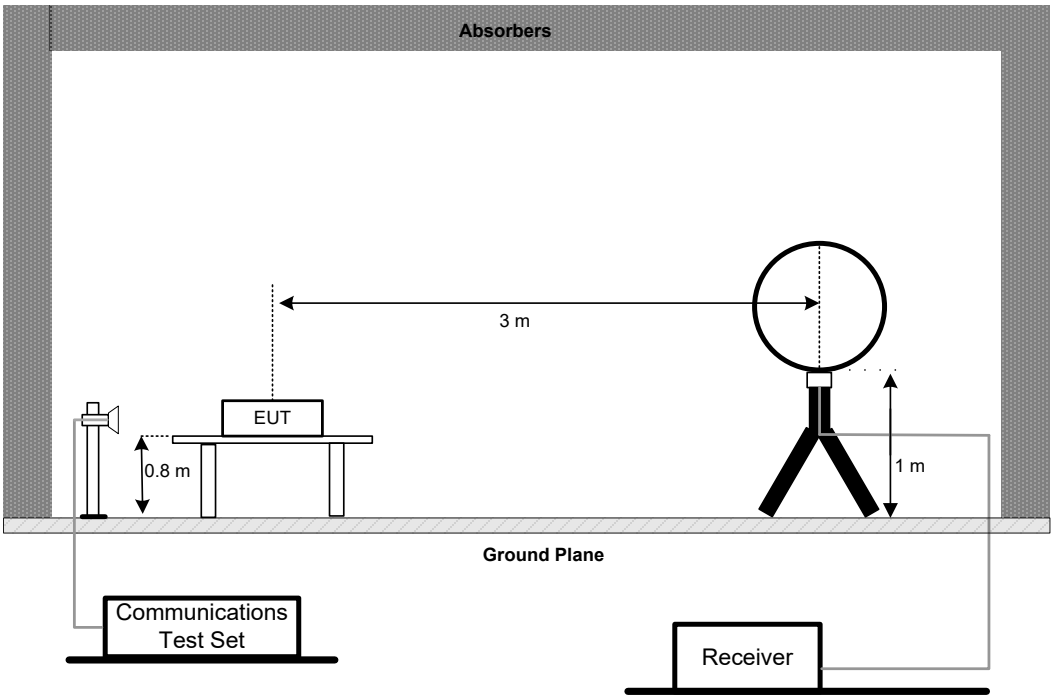
### 4.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2 or ANSI C63.26-2015 Section 5.5.

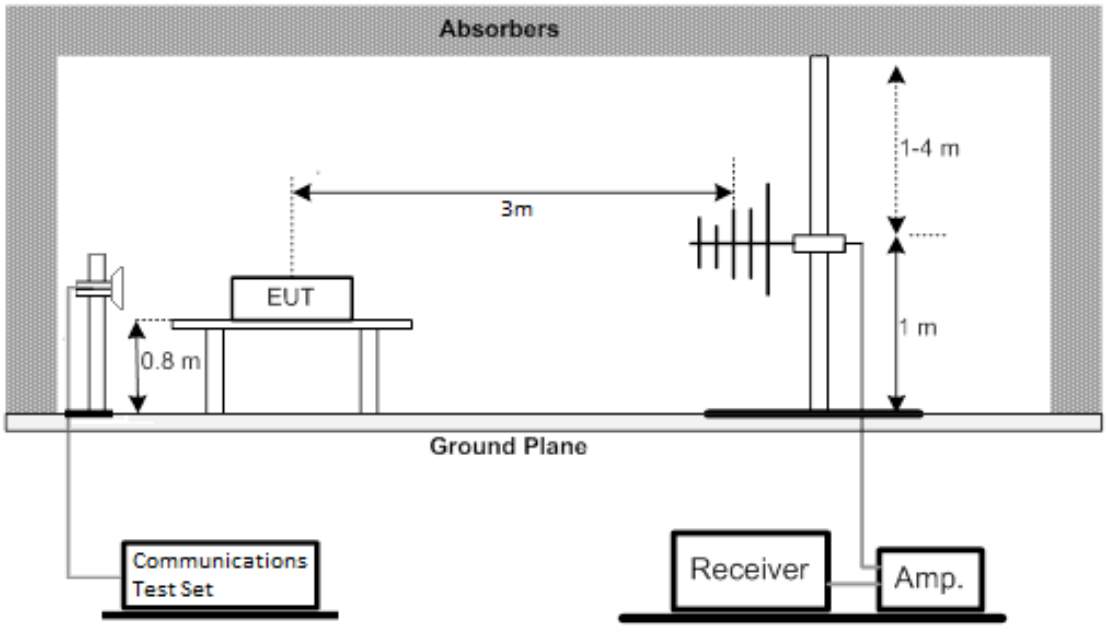
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
4. Start the test, rotate the table 360° to find the worst Angle, maintain the worst Angle, raise the antenna to 1-4m to find the worst height, maintain the worst height, then rotate the table to determine the final worst Angle, grab the spectrum diagram.
5. EUT shall be placed in accordance with X,Y,Z as required by Figure 5 in ANSI C63.26.
   Repeat Step 5 above to find the worst placement. Test all bands according to the worst placement.
6. Then EIRP is then converted to field strength as follows in Equation
7. E (dBuV/m) = EIRP (dBm) - 20log(D) + 104.8; where D is the measurement distance (in the far field region) in m.The emission limit equal to 82.26dBuV/m.

### 4.4.3 TEST SETUP LAYOUT

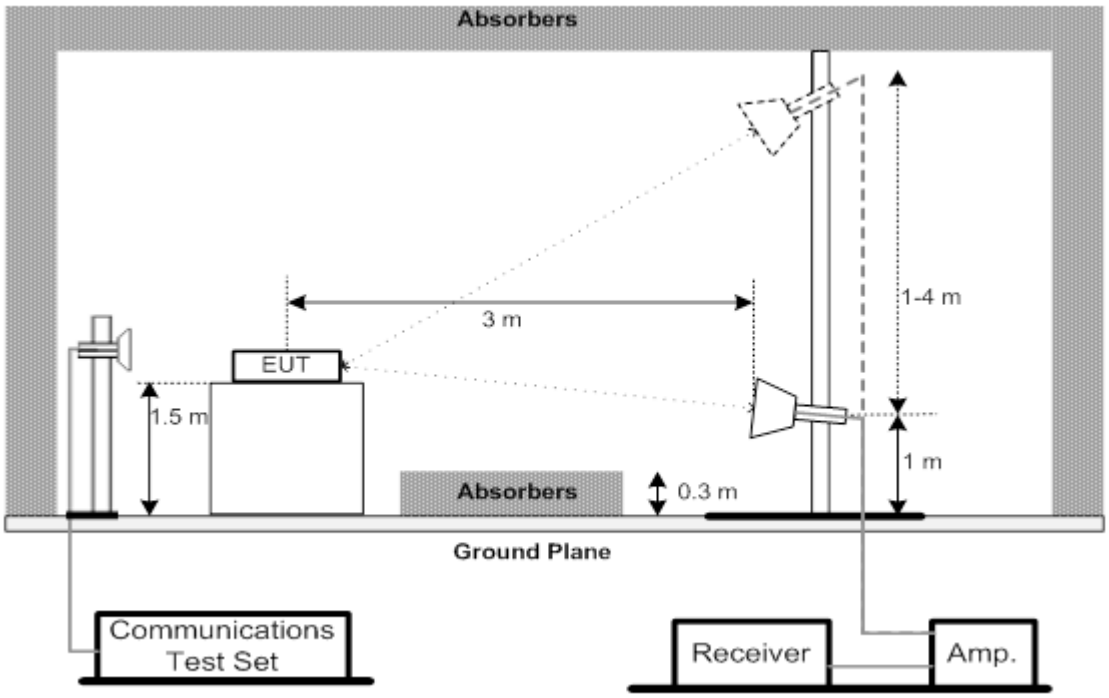
**Below 30MHz**




**30MHz to 1000MHz**



**Above 1GHz**




#### 4.4.4 TEST DEVIATION

No deviation

#### 4.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

#### 4.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

#### 4.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

## 4.5 BAND EDGE MEASUREMENT

### 4.5.1 LIMIT

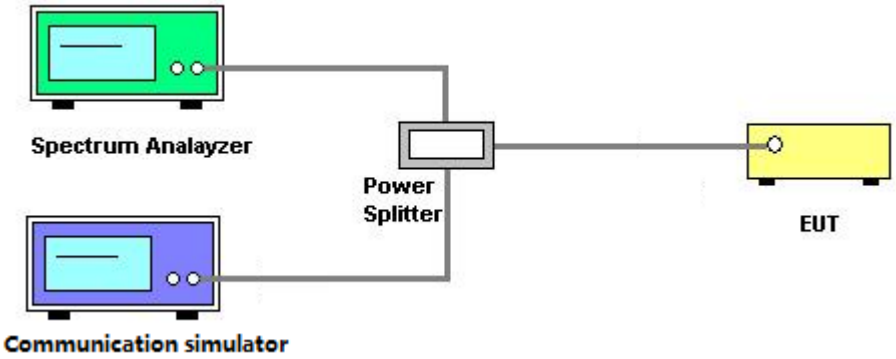
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

### 4.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6 or ANSI C63.26-2015 Section 5.7.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

### 4.5.3 TEST SETUP LAYOUT




### 4.5.4 TEST DEVIATION

No deviation

### 4.5.5 TEST RESULTS

Please refer to the APPENDIX G.

## 4.6 PEAK TO AVERAGE RATIO MEASUREMENT

### 4.6.1 LIMIT

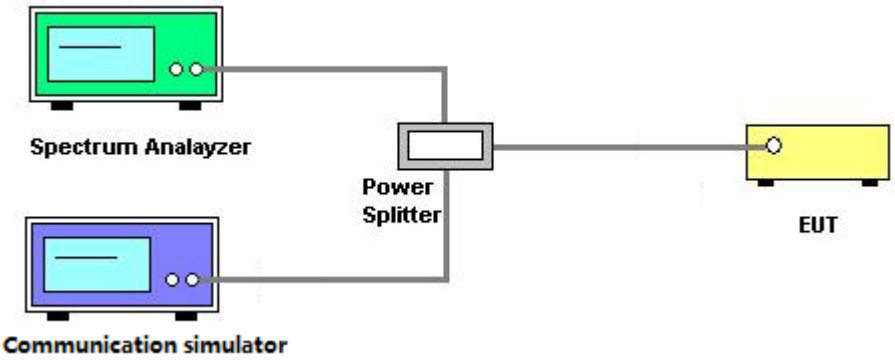
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 4.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7 or ANSI C63.26-2015 Section 5.2.6.

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

### 4.6.3 TEST SETUP LAYOUT




### 4.6.4 TEST DEVIATION

No deviation

### 4.6.5 TEST RESULTS

Please refer to the APPENDIX H.

## 4.7 FREQUENCY STABILITY MEASUREMENT

### 4.7.1 LIMIT

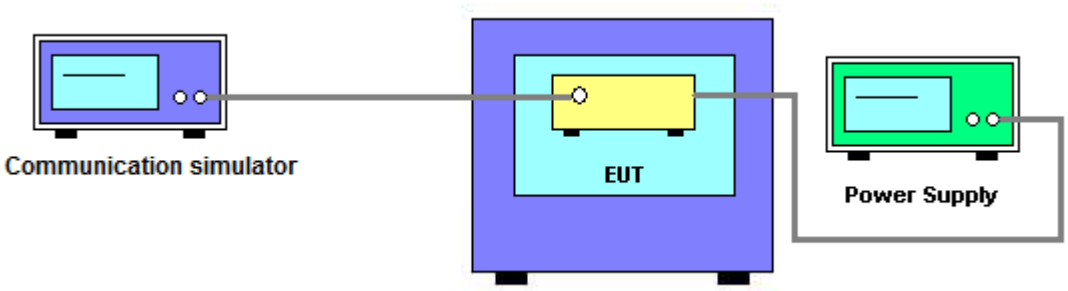
±1.5 ppm is for base and fixed station. ±2.5 ppm is for mobile station.

### 4.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9 or ANSI C63.26-2015 Section 5.6.

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

### 4.7.3 TEST SETUP LAYOUT




### 4.7.4 TEST DEVIATION

No deviation

### 4.7.5 TEST RESULTS

Please refer to the APPENDIX I.

## 4. LIST OF MEASUREMENT EQUIPMENTS

| Radiated Emissions - 9 kHz to 30 MHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Active Loop Antenna | Schwarzbeck | FMZB 1513-60 | 1513-60-025 | Apr. 01, 2024 |
| 2 | MXE EMI Receiver | Keysight | N9038A | MY59050118 | Sep. 26, 2024 |
| 3 | Cable | EMC INSTRUMENT | EMCCFD400-NM-NM-3000 | N/A | Jun. 08, 2024 |
| 4 | Cable | EMC INSTRUMENT | EMCCFD400-NM-NM-7000 | N/A | Jun. 08, 2024 |
| 5 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |

| Radiated Emissions - 30 MHz to 1 GHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | 01269 | May 15, 2024 |
| 2 | Attenuator | EMC INSTRUMENT | EMCI-N-6-06 | AN-N0697 | May 15, 2024 |
| 3 | Preamplifier | EMC INSTRUMENT | EMC001330 | 980825 | Jan. 19, 2025 |
| 4 | Cable | EMC INSTRUMENT | EMCCFD400-NM-NM-2500 | N/A | Jun. 08, 2024 |
| 5 | Cable | EMC INSTRUMENT | EMCCFD400-NM-NM-7000 | N/A | Jun. 08, 2024 |
| 6 | Cable | EMC INSTRUMENT | EMCCFD400-NM-NM-3000 | N/A | Jun. 08, 2024 |
| 7 | MXE EMI Receiver | Keysight | N9038A | MY59050118 | Sep. 26, 2024 |
| 8 | Positioning Controller | MF | MF-7802BS | N/A | N/A |
| 9 | Max-Full Antenna Corp | MF | MFA-560BSN | N/A | N/A |
| 10 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |
| 11 | wideband radio communication tester | R&S | CMW500 | 164094 | Jul. 07, 2024 |
| 12 | Attenuator | Talent Microwave | TA10A2-S-18 | N/A | N/A |
| 13 | 966 Chamber room | Tai He | 9*6*6(NSA&VSWR) | N/A | Jun. 07, 2024 |

| Radiated Emissions - Above 1 GHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | MXE EMI Receiver | Keysight | N9038A | MY59050118 | Sep. 26, 2024 |
| 2 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |
| 3 | Preamplifier | EMC INSTRUMENT | EMC118A45SE | 980739 | Jan. 19, 2025 |
| 4 | Cable | EMC INSTRUMENT | EMC104-SM-SM-10000 | N/A | Jun. 08, 2024 |
| 5 | Cable | EMC INSTRUMENT | EMC104-SM-SM-3000 | N/A | Jun. 08, 2024 |
| 6 | Cable | EMC INSTRUMENT | EMC104-SM-SM-800 | N/A | Jun. 08, 2024 |
| 7 | Double Ridged Broadband Horn Antenna | RF SPIN | DRH18-E | 210106A18E | Jul. 04, 2024 |
| 8 | Preamplifier | EMC INSTRUMENT | EMC184045SE | 980793 | Jan. 19, 2025 |
| 9 | Cable | EMC INSTRUMENT | EMC101G-KM-KM-800 | N/A | Aug. 13, 2024 |
| 10 | Cable | EMC INSTRUMENT | EMC101G-KM-KM-6000 | N/A | Aug. 13, 2024 |
| 11 | wideband radio communication tester | R&S | CMW500 | 164094 | Jul. 07, 2024 |
| 12 | Attenuator | Talent Microwave | TA10A2-S-18 | N/A | N/A |
| 13 | Broad-Band Horn Antenna | Schwarzbeck | BBHA9170 | 1046 | Jul. 05, 2024 |
| 14 | 966 Chamber room | Tai He | 9*6*6(NSA&VSWR) | N/A | Jun. 07, 2024 |

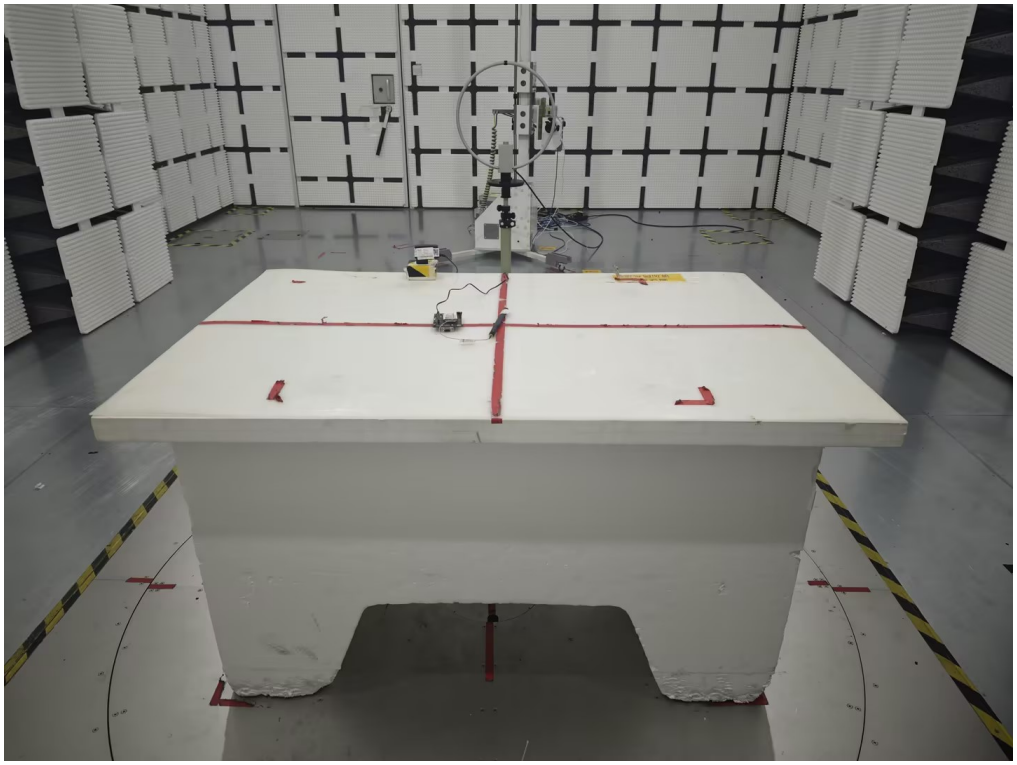
| Conducted Measurement | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Wideband Radio Communication Tester | R&S | CWM 500 | 104462 | Jul. 07, 2024 |
| 2 | Wideband Radio Communication Tester | R&S | CWM 500 | 165578 | May 11, 2024 |
| 3 | Signal Analyzer | R&S | FSV 40 | 100948 | Jul. 07, 2024 |
| 4 | MXA Signal Analyzer | Agilent Technologies | N9020A | MY49100060 | Jul. 07, 2024 |
| 5 | Temperature Chamber | ESPEC | SU-242 | 93018777 | Jul. 07, 2024 |
| 6 | Power Splitter | N/A | N/A | SF103501511 | Jan. 21, 2025 |
| 7 | Cable | N/A | RWP50-4.6A-SMSM-1M | N/A | N/A |
| 8 | Cable | N/A | RWP50-4.6A-SMSM-1M | N/A | N/A |
| 9 | DC Source metter | Iteck | IT6154 | 006104126768201001 | Jul. 07, 2024 |

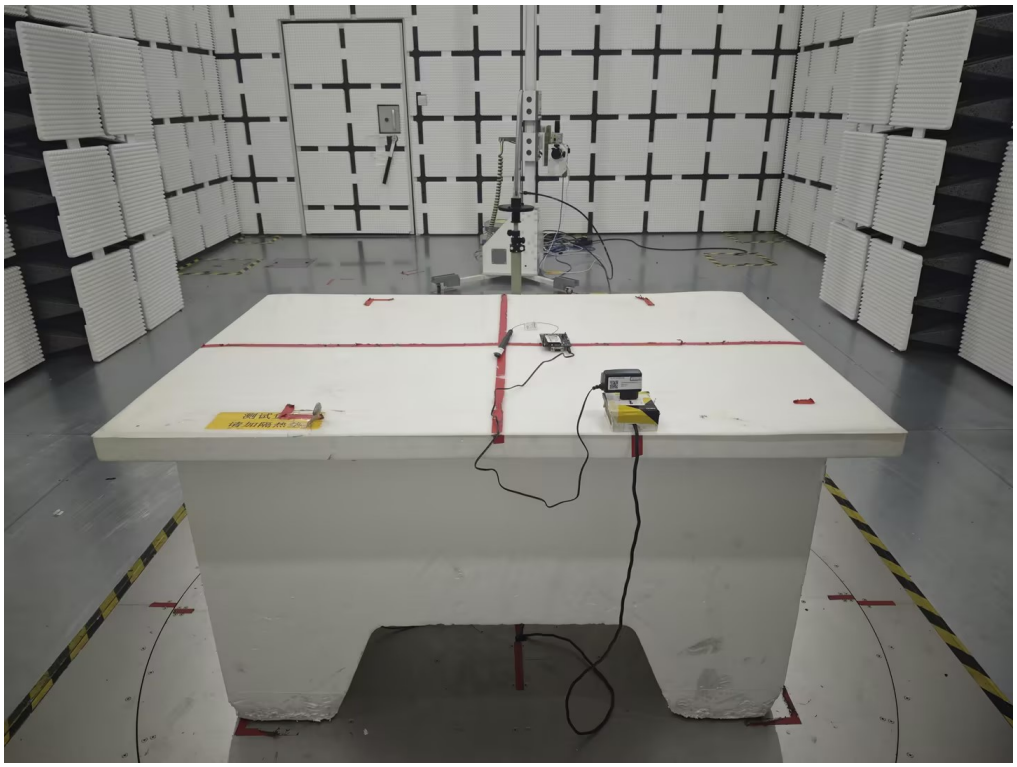
Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

## 5. EUT TEST PHOTO

**Radiated Emissions Test Photos**

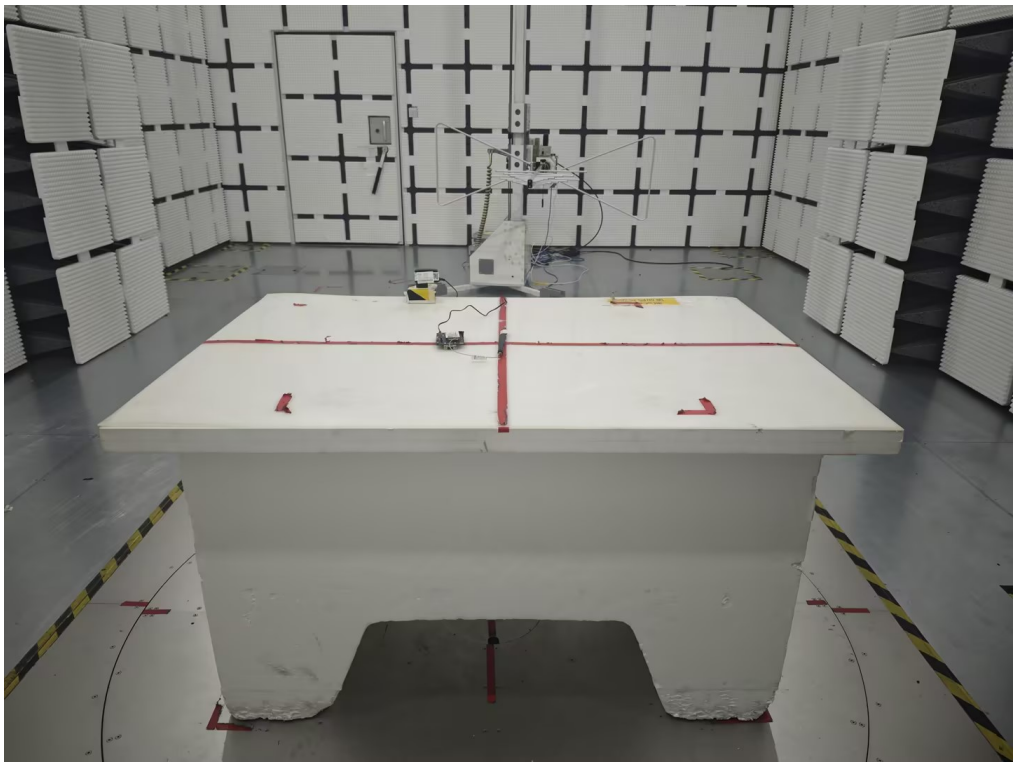
**9 kHz to 30 MHz**

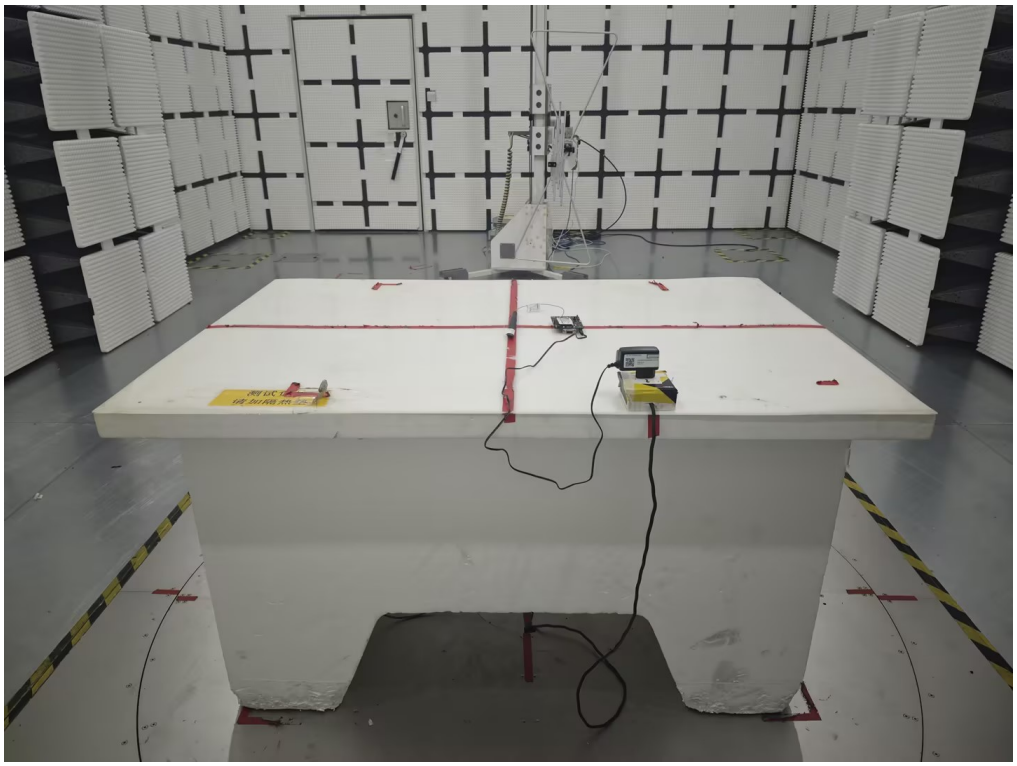




**Radiated Emissions Test Photos**

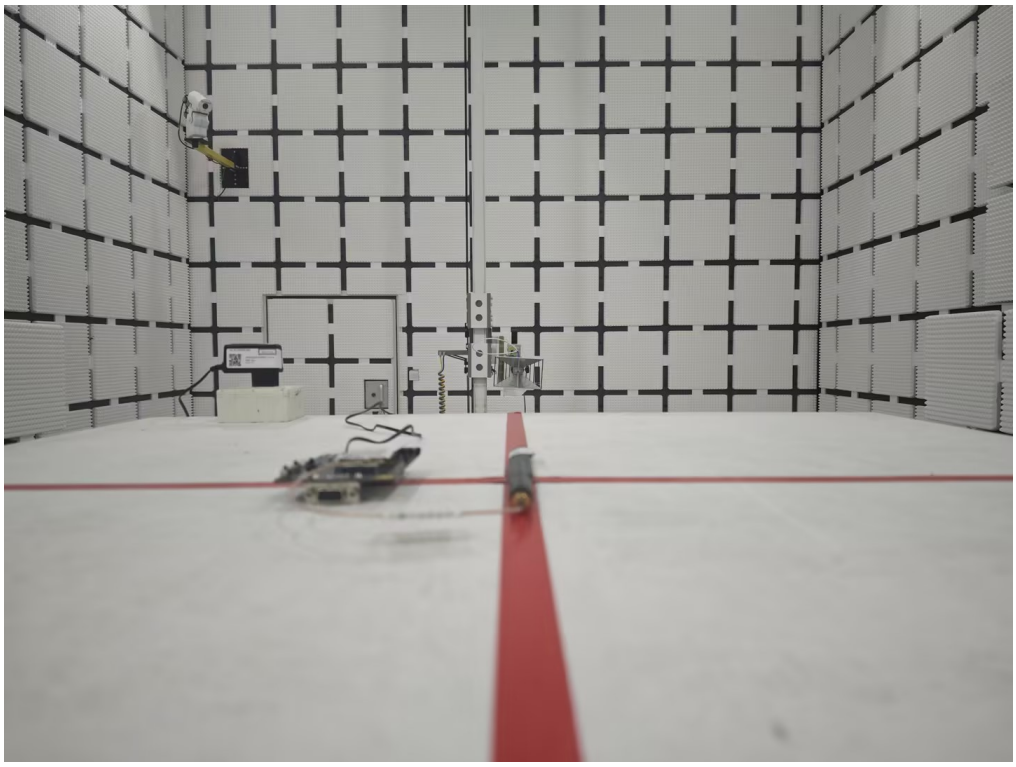
**30 MHz to 1 GHz**

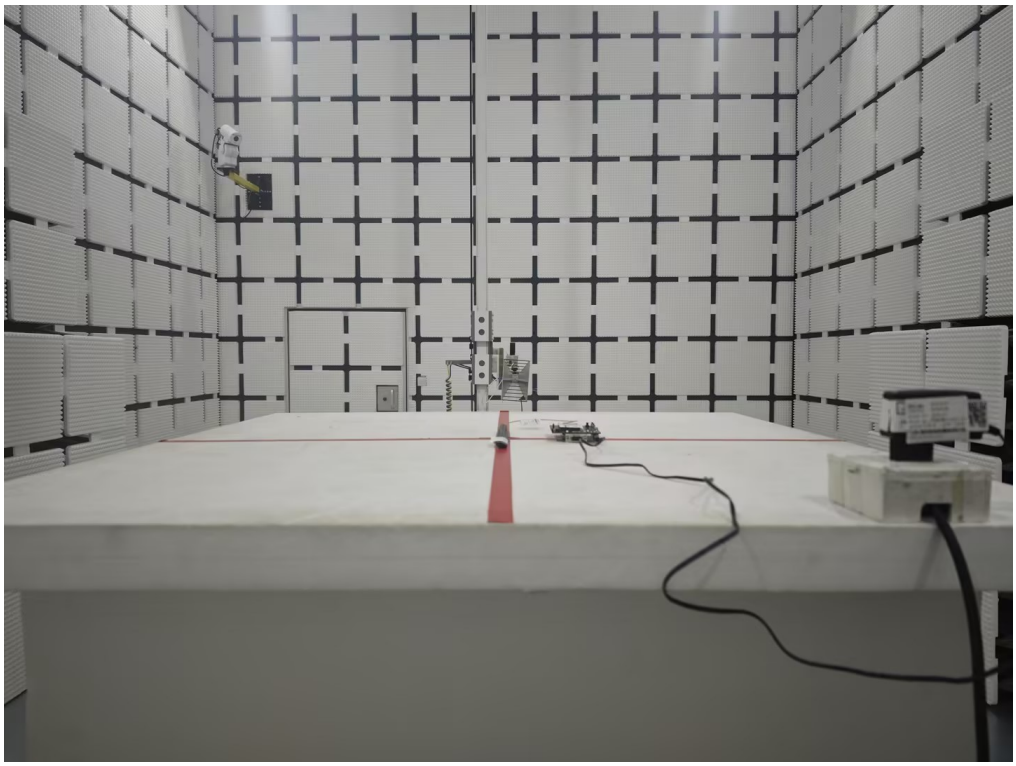




**Radiated Emissions Test Photos**

**Above 1 GHz**





# APPENDIX A - OUTPUT POWER

**Output Power (dBm)**

| GSM850 | | 128CH | 190CH | 251CH |
|---|---|---|---|---|
| | | 824.2MHz | 836.6MHz | 848.8MHz |
| GSM (CS) | | 32.7 | 32.60 | 32.50 |
| GPRS/EDGE (GMSK) | 1 Tx Slot | 32.73 | 32.80 | 32.70 |
| | 2 Tx Slot | 32.72 | 32.78 | 32.68 |
| | 3 Tx Slot | 31.59 | 31.61 | 31.51 |
| | 4 Tx Slot | 29.82 | 29.90 | 29.83 |
| EDGE (8PSK) | 1 Tx Slot | 27.8 | 27.19 | 27.53 |
| | 2 Tx Slot | 26.19 | 25.41 | 25.58 |
| | 3 Tx Slot | 23.05 | 23.21 | 23.03 |
| | 4 Tx Slot | 20.88 | 20.26 | 19.97 |

| Modulation | Band | WCDMA Band V | | |
|---|---|---|---|---|
| | Tx Channel | 4132CH | 4182CH | 4233CH |
| | Frequency | 826.4MHz | 836.4MHz | 846.6MHz |
| QPSK | RMC 12.2K | 23.36 | 23.46 | 23.2 |
| | RMC 64K | 23.38 | 23.51 | 23.21 |
| | RMC 144K | 23.43 | 23.52 | 23.23 |
| | RMC 384K | 23.37 | 23.46 | 23.21 |
| | HSDPA Subtest-1 | 23.29 | 23.09 | 22.59 |
| | HSDPA Subtest-2 | 22.67 | 22.54 | 22.05 |
| | HSDPA Subtest-3 | 22.14 | 22.03 | 21.57 |
| | HSDPA Subtest-4 | 22.09 | 22.02 | 21.55 |
| | HSUPA Subtest-1 | 21.99 | 22.16 | 21.84 |
| | HSUPA Subtest-2 | 20.9 | 21.12 | 20.73 |
| | HSUPA Subtest-3 | 21.06 | 21.3 | 20.92 |
| | HSUPA Subtest-4 | 20.48 | 20.8 | 20.39 |
| | HSUPA Subtest-5 | 23.27 | 23.35 | 23.05 |

| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20407CH | 20525CH | 20643CH |
| | | | | 824.7MHz | 836.5MHz | 848.3MHz |
| 5 / 1.4MHz | QPSK | 1 | 0 | 23.50 | 23.08 | 22.74 |
| | | 1 | 2 | 23.36 | 22.95 | 22.67 |
| | | 1 | 5 | 23.52 | 23.00 | 22.65 |
| | | 3 | 0 | 23.28 | 23.02 | 22.58 |
| | | 3 | 1 | 23.30 | 23.02 | 22.63 |
| | | 3 | 2 | 23.28 | 22.96 | 22.56 |
| | | 6 | 0 | 22.35 | 22.04 | 21.72 |
| | 16QAM | 1 | 0 | 22.88 | 22.21 | 21.99 |
| | | 1 | 2 | 22.75 | 22.18 | 21.93 |
| | | 1 | 5 | 22.92 | 22.21 | 21.90 |
| | | 3 | 0 | 22.64 | 22.32 | 21.78 |
| | | 3 | 1 | 22.56 | 22.32 | 21.84 |
| | | 3 | 2 | 22.59 | 22.28 | 21.77 |
| | | 6 | 0 | 21.39 | 21.28 | 20.97 |

| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20415CH | 20525CH | 20635CH |
| | | | | 825.5MHz | 836.5MHz | 847.5MHz |
| 5 / 3MHz | QPSK | 1 | 0 | 23.21 | 22.93 | 22.65 |
| | | 1 | 7 | 23.25 | 23.00 | 22.65 |
| | | 1 | 14 | 23.19 | 22.82 | 22.55 |
| | | 8 | 0 | 22.28 | 22.12 | 21.83 |
| | | 8 | 4 | 22.32 | 22.12 | 21.89 |
| | | 8 | 7 | 22.38 | 22.02 | 21.80 |
| | | 15 | 0 | 22.30 | 22.07 | 21.83 |
| | 16QAM | 1 | 0 | 22.16 | 22.42 | 21.86 |
| | | 1 | 7 | 22.31 | 22.50 | 21.87 |
| | | 1 | 14 | 22.26 | 22.32 | 21.72 |
| | | 8 | 0 | 21.45 | 21.21 | 20.93 |
| | | 8 | 4 | 21.49 | 21.22 | 20.99 |
| | | 8 | 7 | 21.55 | 21.13 | 20.92 |
| | | 15 | 0 | 21.41 | 21.10 | 20.86 |

| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20425CH | 20525CH | 20625CH |
| | | | | 826.5MHz | 836.5MHz | 846.5MHz |
| 5 / 5MHz | QPSK | 1 | 0 | 23.30 | 22.96 | 22.70 |
| | | 1 | 13 | 23.49 | 22.99 | 22.84 |
| | | 1 | 24 | 23.39 | 22.78 | 22.62 |
| | | 12 | 0 | 22.29 | 22.10 | 21.79 |
| | | 12 | 6 | 22.43 | 22.14 | 21.85 |
| | | 12 | 11 | 22.41 | 22.04 | 21.85 |
| | | 25 | 0 | 22.39 | 22.07 | 21.79 |
| | 16QAM | 1 | 0 | 22.47 | 22.60 | 21.91 |
| | | 1 | 13 | 22.64 | 22.65 | 22.05 |
| | | 1 | 24 | 22.58 | 22.34 | 21.78 |
| | | 12 | 0 | 21.46 | 21.23 | 20.94 |
| | | 12 | 6 | 21.55 | 21.28 | 21.00 |
| | | 12 | 11 | 21.53 | 21.18 | 20.92 |
| | | 25 | 0 | 21.45 | 21.14 | 20.80 |

| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20450CH | 20525CH | 20600CH |
| | | | | 829.0MHz | 836.5MHz | 844.0MHz |
| 5 / 10MHz | QPSK | 1 | 0 | 23.03 | 23.03 | 22.50 |
| | | 1 | 25 | 23.28 | 22.93 | 22.56 |
| | | 1 | 49 | 22.81 | 22.51 | 22.31 |
| | | 25 | 0 | 22.24 | 21.90 | 21.55 |
| | | 25 | 13 | 22.41 | 22.00 | 21.66 |
| | | 25 | 25 | 22.17 | 21.72 | 21.56 |
| | | 50 | 0 | 22.22 | 21.90 | 21.52 |
| | 16QAM | 1 | 0 | 22.02 | 22.53 | 21.68 |
| | | 1 | 25 | 22.38 | 22.46 | 21.79 |
| | | 1 | 49 | 21.80 | 22.01 | 21.47 |
| | | 25 | 0 | 21.33 | 20.92 | 20.76 |
| | | 25 | 13 | 21.40 | 21.08 | 20.86 |
| | | 25 | 25 | 21.22 | 20.80 | 20.78 |
| | | 50 | 0 | 21.29 | 20.96 | 20.66 |

**ERP (dBm)**

| GSM850 | | 128CH | 190CH | 251CH |
|---|---|---|---|---|
| | | 824.2MHz | 836.6MHz | 848.8MHz |
| GSM (CS) | | 29.45 | 29.35 | 29.25 |
| GPRS/EDGE (GMSK) | 1 Tx Slot | 29.48 | 29.55 | 29.45 |
| | 2 Tx Slot | 29.47 | 29.53 | 29.43 |
| | 3 Tx Slot | 28.34 | 28.36 | 28.26 |
| | 4 Tx Slot | 26.57 | 26.65 | 26.58 |
| EDGE (8PSK) | 1 Tx Slot | 24.55 | 23.94 | 24.28 |
| | 2 Tx Slot | 22.94 | 22.16 | 22.33 |
| | 3 Tx Slot | 19.80 | 19.96 | 19.78 |
| | 4 Tx Slot | 17.63 | 17.01 | 16.72 |

| Modulation | Band | WCDMA Band V | | |
|---|---|---|---|---|
| | Tx Channel | 4132CH | 4182CH | 4233CH |
| | Frequency | 826.4MHz | 836.4MHz | 846.6MHz |
| QPSK | RMC 12.2K | 20.11 | 20.21 | 19.95 |
| | RMC 64K | 20.13 | 20.26 | 19.96 |
| | RMC 144K | 20.18 | 20.27 | 19.98 |
| | RMC 384K | 20.12 | 20.21 | 19.96 |
| | HSDPA Subtest-1 | 20.04 | 19.84 | 19.34 |
| | HSDPA Subtest-2 | 19.42 | 19.29 | 18.80 |
| | HSDPA Subtest-3 | 18.89 | 18.78 | 18.32 |
| | HSDPA Subtest-4 | 18.84 | 18.77 | 18.30 |
| | HSUPA Subtest-1 | 18.74 | 18.91 | 18.59 |
| | HSUPA Subtest-2 | 17.65 | 17.87 | 17.48 |
| | HSUPA Subtest-3 | 17.81 | 18.05 | 17.67 |
| | HSUPA Subtest-4 | 17.23 | 17.55 | 17.14 |
| | HSUPA Subtest-5 | 20.02 | 20.10 | 19.80 |

| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20407CH | 20525CH | 20643CH |
| | | | | 824.7MHz | 836.5MHz | 848.3MHz |
| 5 / 1.4MHz | QPSK | 1 | 0 | 20.25 | 19.83 | 19.49 |
| | | 1 | 2 | 20.11 | 19.70 | 19.42 |
| | | 1 | 5 | 20.27 | 19.75 | 19.40 |
| | | 3 | 0 | 20.03 | 19.77 | 19.33 |
| | | 3 | 1 | 20.05 | 19.77 | 19.38 |
| | | 3 | 2 | 20.03 | 19.71 | 19.31 |
| | | 6 | 0 | 19.10 | 18.79 | 18.47 |
| | 16QAM | 1 | 0 | 19.63 | 18.96 | 18.74 |
| | | 1 | 2 | 19.50 | 18.93 | 18.68 |
| | | 1 | 5 | 19.67 | 18.96 | 18.65 |
| | | 3 | 0 | 19.39 | 19.07 | 18.53 |
| | | 3 | 1 | 19.31 | 19.07 | 18.59 |
| | | 3 | 2 | 19.34 | 19.03 | 18.52 |
| | | 6 | 0 | 18.14 | 18.03 | 17.72 |

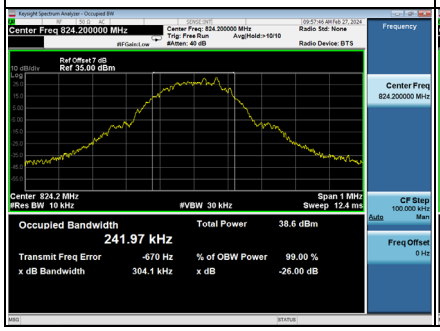
| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20415CH | 20525CH | 20635CH |
| | | | | 825.5MHz | 836.5MHz | 847.5MHz |
| 5 / 3MHz | QPSK | 1 | 0 | 19.96 | 19.68 | 19.40 |
| | | 1 | 7 | 20.00 | 19.75 | 19.40 |
| | | 1 | 14 | 19.94 | 19.57 | 19.30 |
| | | 8 | 0 | 19.03 | 18.87 | 18.58 |
| | | 8 | 4 | 19.07 | 18.87 | 18.64 |
| | | 8 | 7 | 19.13 | 18.77 | 18.55 |
| | | 15 | 0 | 19.05 | 18.82 | 18.58 |
| | 16QAM | 1 | 0 | 18.91 | 19.17 | 18.61 |
| | | 1 | 7 | 19.06 | 19.25 | 18.62 |
| | | 1 | 14 | 19.01 | 19.07 | 18.47 |
| | | 8 | 0 | 18.20 | 17.96 | 17.68 |
| | | 8 | 4 | 18.24 | 17.97 | 17.74 |
| | | 8 | 7 | 18.30 | 17.88 | 17.67 |
| | | 15 | 0 | 18.16 | 17.85 | 17.61 |

| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20425CH | 20525CH | 20625CH |
| | | | | 826.5MHz | 836.5MHz | 846.5MHz |
| 5 / 5MHz | QPSK | 1 | 0 | 20.05 | 19.71 | 19.45 |
| | | 1 | 13 | 20.24 | 19.74 | 19.59 |
| | | 1 | 24 | 20.14 | 19.53 | 19.37 |
| | | 12 | 0 | 19.04 | 18.85 | 18.54 |
| | | 12 | 6 | 19.18 | 18.89 | 18.60 |
| | | 12 | 11 | 19.16 | 18.79 | 18.60 |
| | | 25 | 0 | 19.14 | 18.82 | 18.54 |
| | 16QAM | 1 | 0 | 19.22 | 19.35 | 18.66 |
| | | 1 | 13 | 19.39 | 19.40 | 18.80 |
| | | 1 | 24 | 19.33 | 19.09 | 18.53 |
| | | 12 | 0 | 18.21 | 17.98 | 17.69 |
| | | 12 | 6 | 18.30 | 18.03 | 17.75 |
| | | 12 | 11 | 18.28 | 17.93 | 17.67 |
| | | 25 | 0 | 18.20 | 17.89 | 17.55 |

| LTE Band / BW | Modulation | RB Size | RB Offset | Low CH | Mid CH | High CH |
|---|---|---|---|---|---|---|
| | | | | 20450CH | 20525CH | 20600CH |
| | | | | 829.0MHz | 836.5MHz | 844.0MHz |
| 5 / 10MHz | QPSK | 1 | 0 | 19.78 | 19.78 | 19.25 |
| | | 1 | 25 | 20.03 | 19.68 | 19.31 |
| | | 1 | 49 | 19.56 | 19.26 | 19.06 |
| | | 25 | 0 | 18.99 | 18.65 | 18.30 |
| | | 25 | 13 | 19.16 | 18.75 | 18.41 |
| | | 25 | 25 | 18.92 | 18.47 | 18.31 |
| | | 50 | 0 | 18.97 | 18.65 | 18.27 |
| | 16QAM | 1 | 0 | 18.77 | 19.28 | 18.43 |
| | | 1 | 25 | 19.13 | 19.21 | 18.54 |
| | | 1 | 49 | 18.55 | 18.76 | 18.22 |
| | | 25 | 0 | 18.08 | 17.67 | 17.51 |
| | | 25 | 13 | 18.15 | 17.83 | 17.61 |
| | | 25 | 25 | 17.97 | 17.55 | 17.53 |
| | | 50 | 0 | 18.04 | 17.71 | 17.41 |

# APPENDIX B - OCCUPIED BANDWIDTH

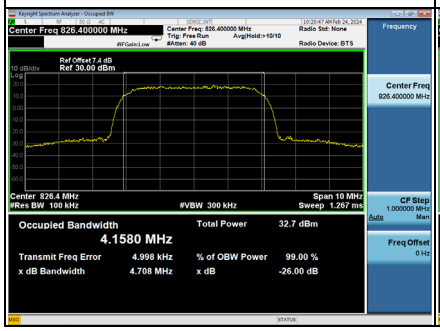
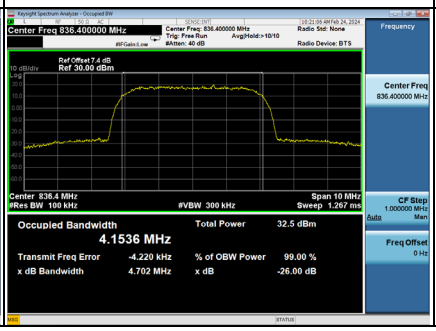
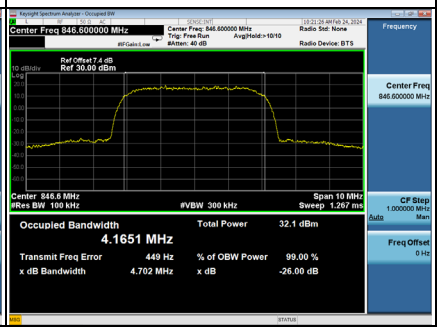
| GSM850_GSM | | | |
|---|---|---|---|
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| | | QPSK | QPSK |
| 128 | 824.2 | 0.2420 | 0.3041 |
| 190 | 836.6 | 0.2440 | 0.3060 |
| 251 | 848.8 | 0.2411 | 0.3059 |

| Spectrum Plot | | |
|---|---|---|
| 128 | 190 | 251 |
|  |  |  |

| GSM850_EDGE | | | |
|---|---|---|---|
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| | | QPSK | QPSK |
| 128 | 824.2 | 0.2506 | 0.3080 |
| 190 | 836.6 | 0.2437 | 0.3045 |
| 251 | 848.8 | 0.2437 | 0.3041 |

| Spectrum Plot | | |
|---|---|---|
| 128 | 190 | 251 |
|  |  |  |

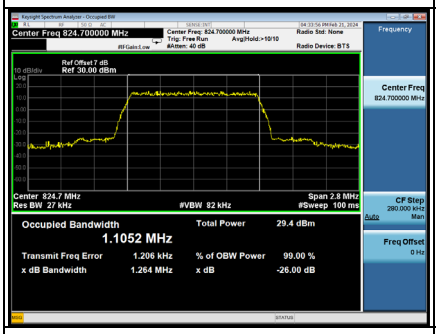
| WCDMA Band V_WCDMA | | | |
|---|---|---|---|
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) |
| | | QPSK | QPSK |
| 4132 | 826.4 | 4.1580 | 4.708 |
| 4182 | 836.4 | 4.1536 | 4.702 |
| 4233 | 846.6 | 4.1651 | 4.702 |

| Spectrum Plot | | |
|---|---|---|
| 4132 | 4182 | 4233 |
|  |  |  |

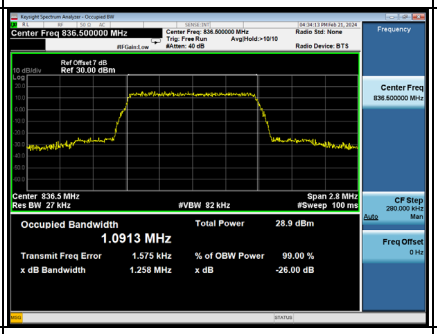
| LTE Band 5_1.4MHz | | | | | |
|---|---|---|---|---|---|
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | 26dB Bandwidth (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 20407 | 824.7 | 1.1052 | 1.0916 | 1.264 | 1.258 |
| 20525 | 836.5 | 1.0913 | 1.0973 | 1.258 | 1.257 |
| 20643 | 848.3 | 1.0959 | 1.1016 | 1.251 | 1.256 |

Spectrum Plot

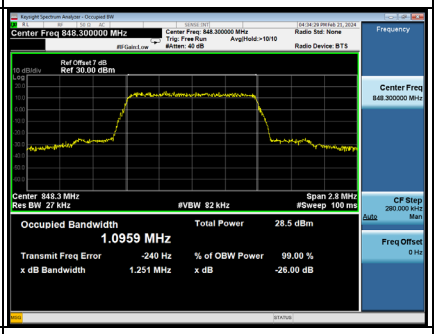
QPSK-20407



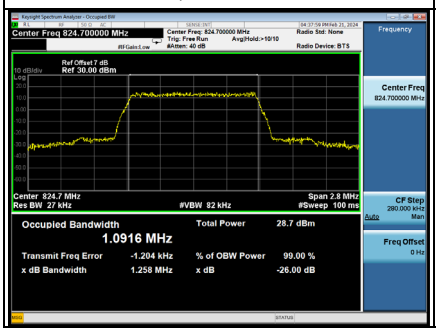

QPSK-20525



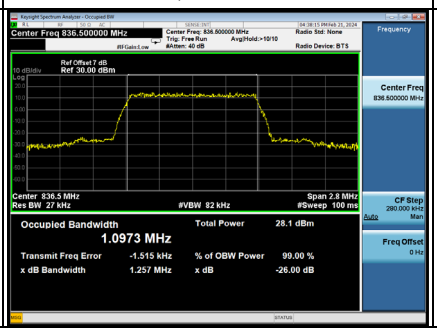

QPSK-20643



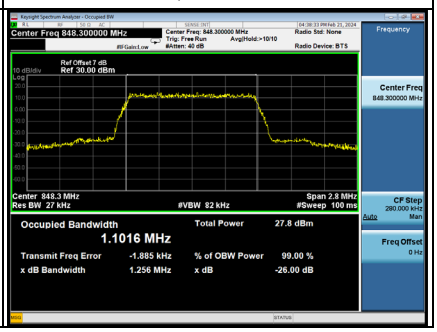

16QAM-20407



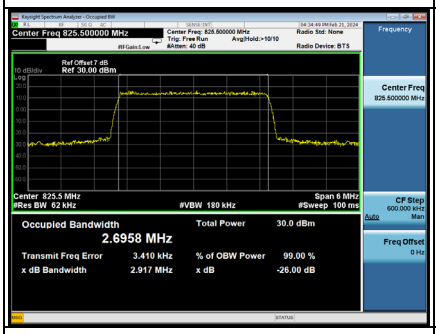
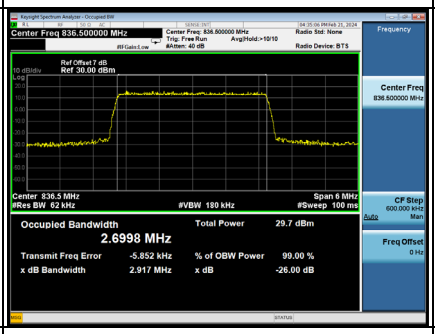
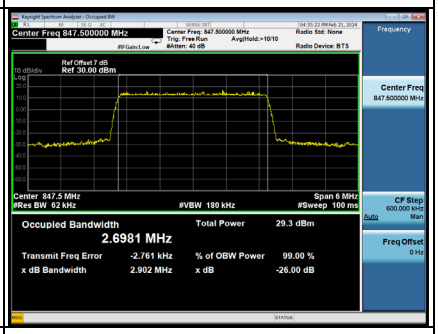
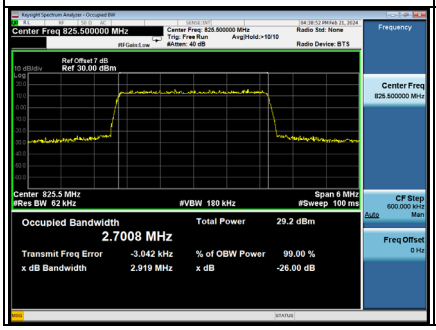
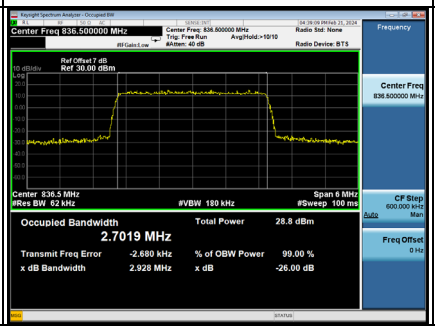
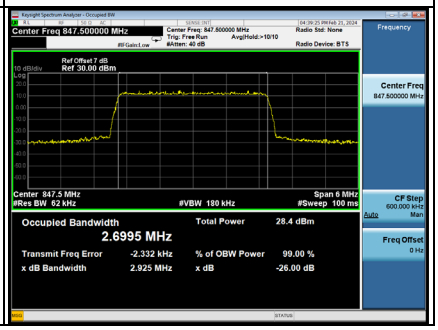

16QAM-20525



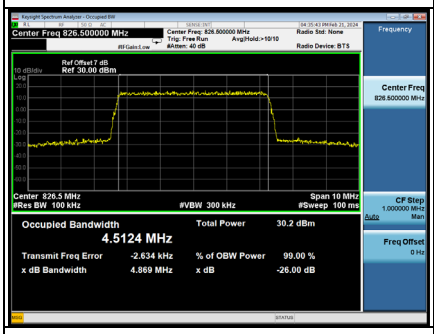
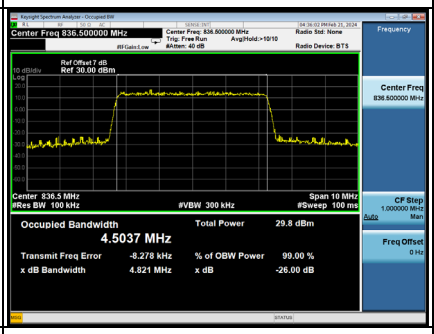
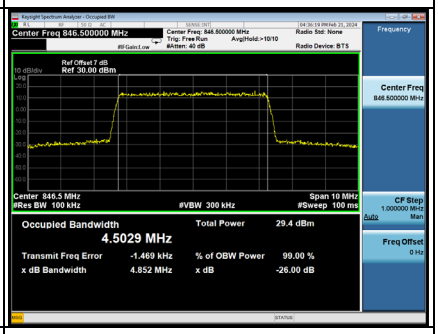
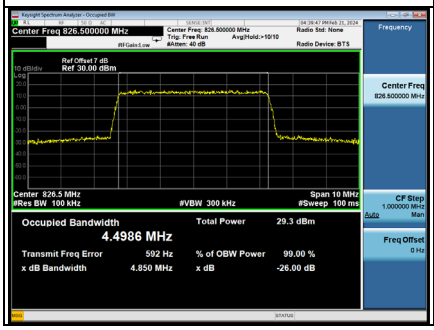
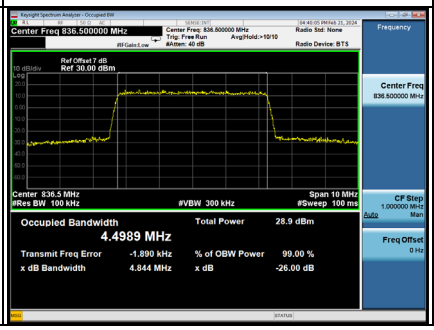
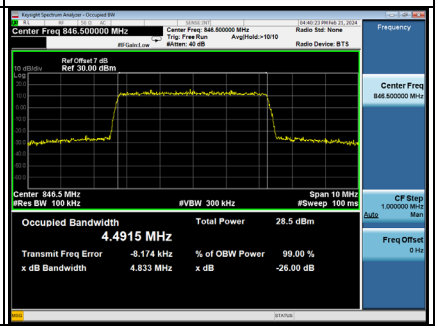

16QAM-20643



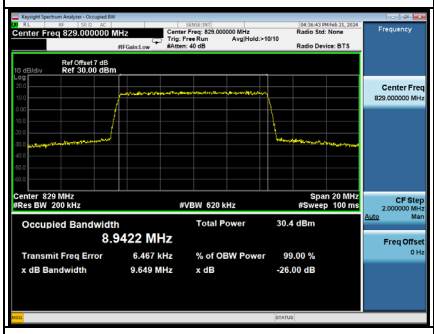
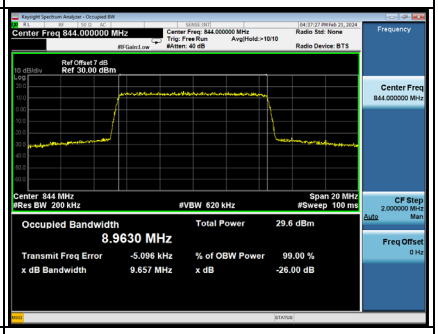
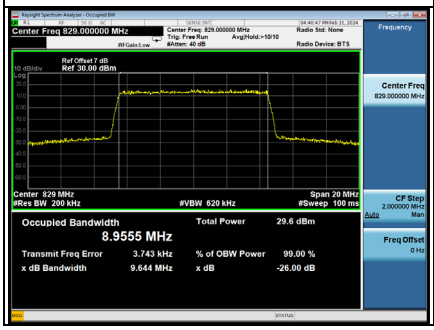
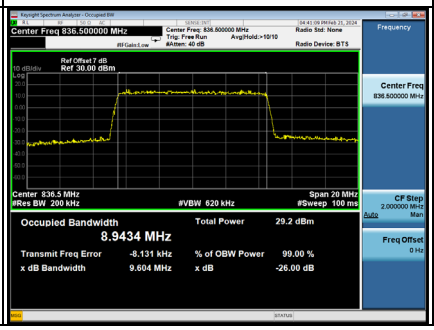
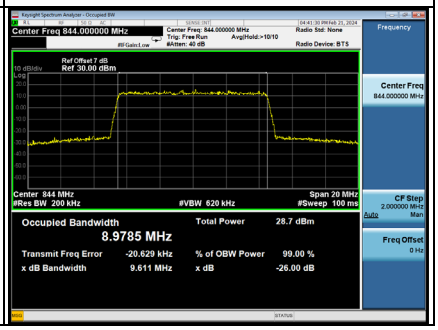
| LTE Band 5_3MHz | | | | | |
|---|---|---|---|---|---|
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | 26dB Bandwidth (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 20415 | 825.5 | 2.6958 | 2.7008 | 2.917 | 2.919 |
| 20525 | 836.5 | 2.6998 | 2.7019 | 2.917 | 2.928 |
| 20635 | 847.5 | 2.6981 | 2.6995 | 2.902 | 2.925 |

| Spectrum Plot | | |
|---|---|---|
| QPSK-20415 | QPSK-20525 | QPSK-20635 |
|  |  |  |
| 16QAM-20415 | 16QAM-20525 | 16QAM-20635 |
|  |  |  |

| LTE Band 5_5MHz | | | | | |
|---|---|---|---|---|---|
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | 26dB Bandwidth (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 20425 | 826.5 | 4.5124 | 4.4986 | 4.869 | 4.850 |
| 20525 | 836.5 | 4.5037 | 4.4989 | 4.821 | 4.844 |
| 20625 | 846.5 | 4.5029 | 4.4915 | 4.852 | 4.833 |

| Spectrum Plot | | |
|---|---|---|
| QPSK-20425 | QPSK-20525 | QPSK-20625 |
|  |  |  |
| 16QAM-20425 | 16QAM-20525 | 16QAM-20625 |
|  |  |  |

| LTE Band 5_10MHz | | | | | |
|---|---|---|---|---|---|
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | 26dB Bandwidth (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 20450 | 829.0 | 8.9422 | 8.9555 | 9.649 | 9.644 |
| 20525 | 836.5 | 8.9576 | 8.9434 | 9.613 | 9.604 |
| 20600 | 844.0 | 8.9630 | 8.9785 | 9.657 | 9.611 |

| Spectrum Plot | | |
|---|---|---|
| QPSK-20450 | QPSK-20525 | QPSK-20600 |
|  |  |  |
| 16QAM-20450 | 16QAM-20525 | 16QAM-20600 |
|  |  |  |

# APPENDIX C - CONDUCTED SPURIOUS EMISSIONS