

# **TEST REPORT**

**Report Number:** R16314687-E12c

**Applicant** : Samsung Electronics Co Ltd  
129, Samsung-ro, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, 16677, Rep. of Korea

**Model(s)** : SM-S741B/DS(Main model), SM-S741B(multi model)

**FCC ID** : A3LSMS741B

**EUT Description** : GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII  
a/b/g/n/ac/ax, WPT and NFC

**Test Standard(s)** : FCC 47 CFR PART 2, PART 27, PART 22, PART 24, PART 25  
ISED RSS-GEN Issue 5 +A1+A2  
ISED RSS-199 ISSUE 4, RSS-132 ISSUE 4, RSS-130 ISSUE 2

**Date Of Issue:**

2026-07-15

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REVISION HISTORY

| Rev. | Issue Date | Revisions     | Revised By   |
|------|------------|---------------|--------------|
| V1   | 2026-07-15 | Initial Issue | Noah Bennett |

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Samsung Electronics Co Ltd  
129, Samsung-ro, Yeongtong-gu, Suwon-si,  
Gyeonggi-do, 16677, Rep. of Korea

**EUT DESCRIPTION:** GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, WPT and NFC

**SERIAL NUMBER:** ZE10732M, ZE10633M

**SAMPLE RECEIPT DATE:** 2026-06-02

**DATE TESTED:** 2026-06-25 thru 2026-06-30

| APPLICABLE STANDARDS                                   |                    |
|--------------------------------------------------------|--------------------|
| STANDARD                                               | TEST RESULTS       |
| CFR 47 Parts 2, 22, 24, 25, 27                         | Refer to Section 2 |
| ISED RSS-199 Issue 4, RSS-130 Issue 2, RSS-132 Issue 4 | Refer to Section 2 |
| ISED RSS-GEN Issue 5 +A1+A2                            | Refer to Section 2 |

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by a2La, NIST, or any agency of the U.S. government.

Approved & Released  
For UL LLC By:

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## 2. TEST RESULTS SUMMARY

This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

| Requirement Description              | Requirement Clause Number (FCC)           | Result          | Remarks                                                                                                                                 |
|--------------------------------------|-------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Effective Radiated power             | 22.913 (a)(5)                             | See section 7.4 | Spot check testing performed, as per the test plan, to justify data referencing. Additional supplemental testing performed as necessary |
| Equivalent Isotropic Radiated power  | 24.232 (c), 27.50 (d) (4)                 |                 |                                                                                                                                         |
| Occupied Bandwidth                   | 2.1049                                    |                 |                                                                                                                                         |
| Band Edge and Emission Mask          | 2.1051, 22.917 (a), 24.238 (a), 27.53 (h) |                 |                                                                                                                                         |
| Out of Band Emission                 | 2.1051, 22.917 (a), 24.238 (a), 27.53 (h) |                 |                                                                                                                                         |
| Frequency Stability                  | 2.1055, 22.355, 24.235, 27.54             |                 |                                                                                                                                         |
| Peak-to-Average Ratio                | 22.913 (d), 24.232 (d), 27.50 (d) (5)     |                 |                                                                                                                                         |
| Field Strength of Spurious Radiation | 2.1053, 22.917 (a), 24.238 (a), 27.53 (h) |                 |                                                                                                                                         |

## 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following.

FCC published lists of [measurement procedures](#) for compliance testing.

ISED published lists of [normative test standards and acceptable alternatives procedures](#).

- ANSI C63.26:2015
- FCC 47 CFR Part 2, Part 25
- [FCC KDB 971168 D01](#): Power Meas License Digital Systems (ISED acceptable alternative procedure)
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#): Determining ERP and EIRP
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-130 Issue 2

## 4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report.

Testing was performed at the locations noted below.

|                                     | Address                                                                      | ISED CABID | ISED Company Number | FCC Registration |
|-------------------------------------|------------------------------------------------------------------------------|------------|---------------------|------------------|
| <input type="checkbox"/>            | Building:<br>12 Laboratory Dr<br>Durham, NC 27713, U.S.A                     | US0067     | 2180C               | 825374           |
| <input checked="" type="checkbox"/> | Building:<br>2800 Perimeter Park Dr. Suite B<br>Morrisville, NC 27560, U.S.A |            | 27265               |                  |

## 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

### 5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER                                            | ULab                       |
|------------------------------------------------------|----------------------------|
| Radio Frequency (Spectrum Analyzer)                  | 141.16 Hz                  |
| Occupied Bandwidth                                   | 1.22%                      |
| Power Spectral Density                               | 2.47 dB                    |
| RF Power Measurement Direct Method Using Power Meter | 1.3 dB (PK) / 0.45 dB (AV) |
| Unwanted Emissions, Conducted                        | 1.94 dB                    |
| Worst Case Radiated Disturbance, 9kHz to 40 GHz      | 6.01 dB                    |
| Time Domain Measurements                             | 3.39%                      |
| Temperature                                          | 0.57°C                     |
| Humidity                                             | 3.39%                      |
| DC Supply Voltages                                   | 0.57%                      |

Uncertainty figures are valid to a confidence level of 95%.

### 5.4. SAMPLE CALCULATION

#### RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

## 6. EQUIPMENT UNDER TEST

### 6.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, WPT and NFC.

This report covers the data referencing of the WWAN radios.

### 6.2. WORST-CASE CONFIGURATION AND MODE

For WWAN, the following testing was performed as per the provided data referencing test plan:

| Radio      | Test     | Chain    | EUT Frequency (MHz) |
|------------|----------|----------|---------------------|
| FR1 n26(5) | 1-10 RSE | Config 0 | 824MHz              |
| FR1 n25    | 1-18 RSE | Config 0 | 1870MHz             |
| FR1 n26(5) | EIRP     | Config 0 | 834MHz              |
| FR1 n25    | EIRP     | Config 0 | 1862.5              |

The EUT was investigated in three orthogonal orientations: X, Y, and Z. The following orientations/positions were found to be worst case and were used for testing.

| WWAN Bands                                     | Config 0 Orientation | Config 1 Orientation |
|------------------------------------------------|----------------------|----------------------|
| Low Band ( $F_c < 1\text{GHz}$ )               | Z                    | Z                    |
| Mid Band ( $1\text{GHz} < F_c < 3\text{GHz}$ ) | Z                    | Z                    |
| High Band ( $F_c > 3\text{GHz}$ )              | -                    | -                    |

### 6.3. DESCRIPTION OF TEST SETUP

#### SUPPORT EQUIPMENT

| Support Equipment List |              |                     |               |        |
|------------------------|--------------|---------------------|---------------|--------|
| Description            | Manufacturer | Model               | Serial Number | FCC ID |
| Power Adapter          | Sony         | XQZ-UC11-010-236-21 | NA            | NA     |

#### I/O CABLES

| I/O Cable List |       |                      |                |            |                  |                      |
|----------------|-------|----------------------|----------------|------------|------------------|----------------------|
| Cable No.      | Port  | # of Identical Ports | Connector Type | Cable Type | Cable Length (m) | Remarks              |
| 1              | USB-C | 1                    | USB-C          | Shielded   | <3m              | EUT to power adapter |

#### TEST SETUP

The EUT is tested as a standalone device connected to an AC adapter.

#### SETUP DIAGRAM

Refer to R16314687-EP1c for setup diagrams

## 7. REUSE OF TEST DATA

### 7.1. INTRODUCTION

According to the manufacturer, Models SM-S741U, SM-S741U1 and Model SM-S741B/DS(Main model), SM-S741B(multi model) radios are electrically identical. The SM-S741U, SM-S741U1 test data shall remain representative of SM-S741B/DS(Main model), SM-S741B(multi model) so Model SM-S741B/DS(Main model), SM-S741B(multi model) leverages test data from Models SM-S741U, SM-S741U1.

The applicant takes full responsibility that the test data as referenced in this section represents compliance for this FCC ID.

### 7.2. DEVICES DIFFERENCES

Difference between SM-S741U, SM-S741U1 and SM-S741B/DS(Main model), SM-S741B(multi model):

Refer to manufacturer supplied data referencing declaration.

### 7.3. REFERENCE DETAIL

| Equipment Class | Reference FCC ID | Report Title                                                                                                                                                                                                                                                                            |
|-----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WWAN            | A3LSMS741U       | R16314687-E1a FCC 2G_3G_WWAN REPORT<br>R16314687-E2a FCC Part 22H_90_25_RSS132_B5_26_Report<br>R16314687-E3a FCC Part 24E_25_RSS133_B2_25_Report<br>R16314687-E5a FCC Part 27_RSS139_B4_66_Report<br>R16314687-E6a FCC Part 27_B70_Report<br>R16314687-E7a FCC Part 27_96_B77_78 Report |

### 7.4. SPOT CHECK VERIFICATION RESULTS SUMMARY

Spot check verification has been done on Model SM-S741B/DS(Main model) for the tests listed above in section 6.2. The data from the application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary. The tests chosen as part of this spot-check test program were deemed to be the critical tests required to support data referencing. The remaining tests required to show compliance with the relevant requirements are considered compliant and the results of these tests can be found in the appropriate test reports filed as part of the parent variant certification.

| Technology | Test     | Frequency (MHz)/Channel | Remeasure Freq | SM-S741U, SM-S741U1 Reading (dBuV/m)* | SM-S741B/DS Reading (dBuV/m)* | Margin <3dB Reading (dB) |
|------------|----------|-------------------------|----------------|---------------------------------------|-------------------------------|--------------------------|
| FR1 n26(5) | 1-10 RSE | 824                     | 9.1117GHz      | -41.85                                | -42.53                        | -0.68                    |
| FR1 n25    | 1-18 RSE | 1870                    | 17.577GHz      | -29.26                                | -30.81                        | -1.55                    |
| FR1 n26(5) | EIRP     | 834                     | 834MHz         | 17.82dBm                              | 17.79dBm                      | -0.03                    |
| FR1 n25    | EIRP     | 1862.5                  | 1862.5MHz      | 24.79dBm                              | 22.39dBm                      | -2.4                     |

Additional conducted licensed testing was performed beyond what is summarized in the above table to further support data referencing.

\*NOTE: All measured data is reported in terms of dBuV/m unless specified otherwise within the table.

## 8. TEST AND MEASUREMENT EQUIPMENT

### Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

| Equip. ID       | Description                                       | Manufacturer/Brand | Model Number              | Last Cal.  | Next Cal.  |
|-----------------|---------------------------------------------------|--------------------|---------------------------|------------|------------|
|                 | <b>1-18 GHz</b>                                   |                    |                           |            |            |
| 135143          | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren       | 3117                      | 2026-03-02 | 2028-03-02 |
|                 | <b>Gain-Loss Chains</b>                           |                    |                           |            |            |
| 207640          | Gain-loss string: 1-18GHz                         | Various            | Various                   | 2025-06-13 | 2026-06-30 |
|                 | <b>Receiver &amp; Software</b>                    |                    |                           |            |            |
| 197954          | Spectrum Analyzer                                 | Rohde & Schwarz    | ESW44                     | 2026-05-13 | 2027-05-13 |
| 206459          | Spectrum Analyzer                                 | Rohde & Schwarz    | FSW50                     | 2025-09-15 | 2026-09-15 |
| SOFTEMI         | EMI Software                                      | UL                 | Version 9.5 (18 Oct 2021) |            |            |
|                 | <b>Additional Equipment used</b>                  |                    |                           |            |            |
| 241204          | Environmental Meter                               | Fisher Scientific  | 15-077-963                | 2025-08-05 | 2027-08-05 |
| 21725           | Wideband Radio Communications Tester              | Rohde and Schwarz  | CMX500                    | 2025-11-25 | 2026-11-25 |
| 169108 (BRF010) | 1.85-1.97GHz notch filter, 2W, Fhigh = 9GHz       | Micro-Tronics      | BRM50714-01               | 2026-04-01 | 2027-04-01 |
| 198917          | 1GHz high-pass filter, 2W, Fhigh =18GHz           | Micro-Tronics      | HPM18129-02               | 2026-04-01 | 2027-04-01 |

**Test Equipment Used - Wireless Conducted Measurement Equipment**

| Equipment ID | Description                                           | Manufacturer          | Model Number | Last Cal.  | Next Cal.  |
|--------------|-------------------------------------------------------|-----------------------|--------------|------------|------------|
|              | <b>Conducted Room 3</b>                               |                       |              |            |            |
| 90411        | Spectrum Analyzer<br><b>MY54490314</b>                | Keysight Technologies | N9030A       | 2026-03-03 | 2027-03-03 |
| 208721       | Wideband Radio Communications Tester                  | Rohde and Schwarz     | CMW500       | 2025-09-10 | 2026-09-10 |
| 212967       | Wideband Radio Communications Tester<br><b>170733</b> | Rohde and Schwarz     | CMW500       | 2026-02-13 | 2027-02-13 |
| 212166       | Wideband Radio Communications Tester                  | Anritsu               | MT8000A      | 2026-02-23 | 2027-02-23 |
| 245766       | Environmental Meter                                   | Fisher Scientific     | 06-662-4     | 2026-03-10 | 2027-03-10 |

**Test Equipment Used - Wireless Conducted Attenuators, Cables, and Couplers**

| Equipment ID | Description                                       | Manufacturer                       | Model Number          | Last Cal.  | Next Cal.  |
|--------------|---------------------------------------------------|------------------------------------|-----------------------|------------|------------|
|              | <b>Attenuators</b>                                |                                    |                       |            |            |
| 226554       | SMA Coaxial 20dB Attenuator 25MHz-18GHz           | CentricRF                          | C18S2-20              | 2026-05-05 | 2027-05-05 |
| Pad G        | SMA Coaxial 10dB Attenuator 25MHz-18GHz           | CentricRF                          | C27S-10               | 2026-05-05 | 2027-05-05 |
| Pad III      | SMA Coaxial 10dB Attenuator 25MHz-18GHz           | CentricRF                          | C27S-10               | 2025-08-18 | 2026-08-18 |
|              | <b>Cables</b>                                     |                                    |                       |            |            |
| CBL093       | Micro-Coax UTiFLEX Cable Assembly, Low Loss,40Ghz | Carlisle Interconnect Technologies | UFA147A-2-0360-200200 | 2025-09-05 | 2026-09-05 |
|              | <b>Couplers</b>                                   |                                    |                       |            |            |
| 238018       | Ultra-Wideband Directional Coupler 0.5-18GHz      | Mini-Circuits                      | ZUDC10-183+           | 2026-05-05 | 2027-05-05 |

## 9. SPOTCHECK TEST DATA

### LIMITS

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.

In addition, the peak to average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

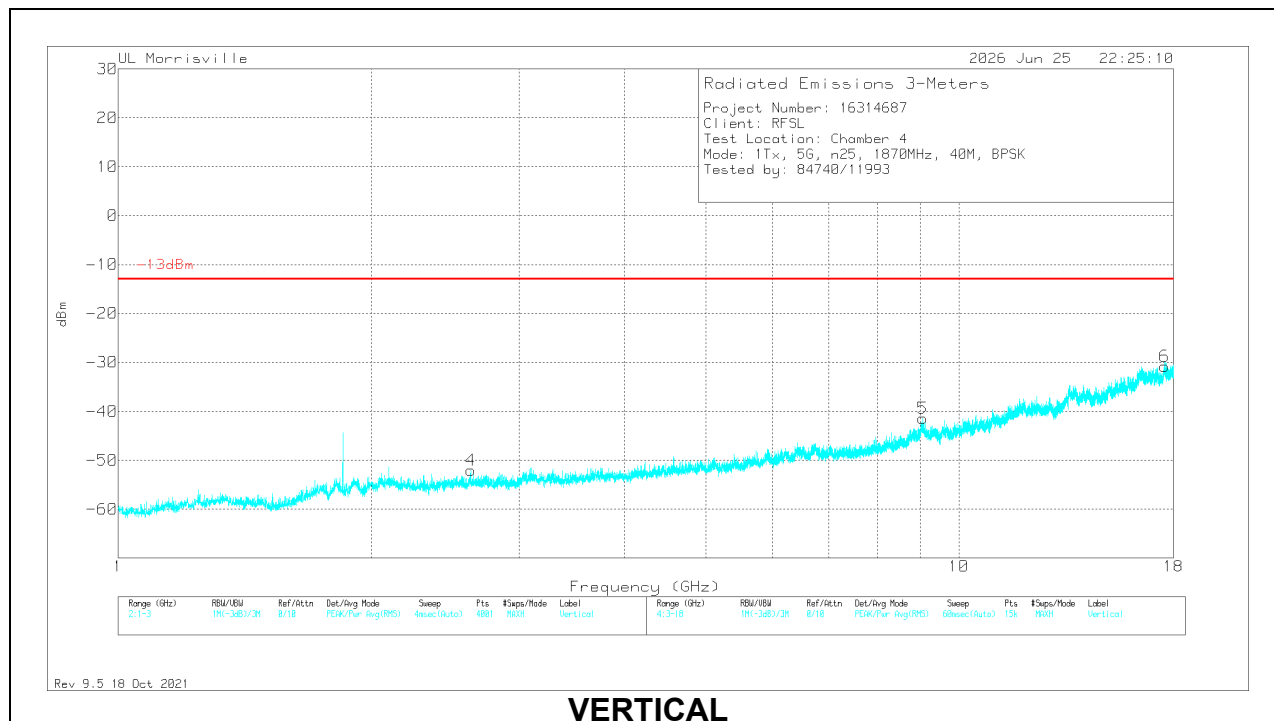
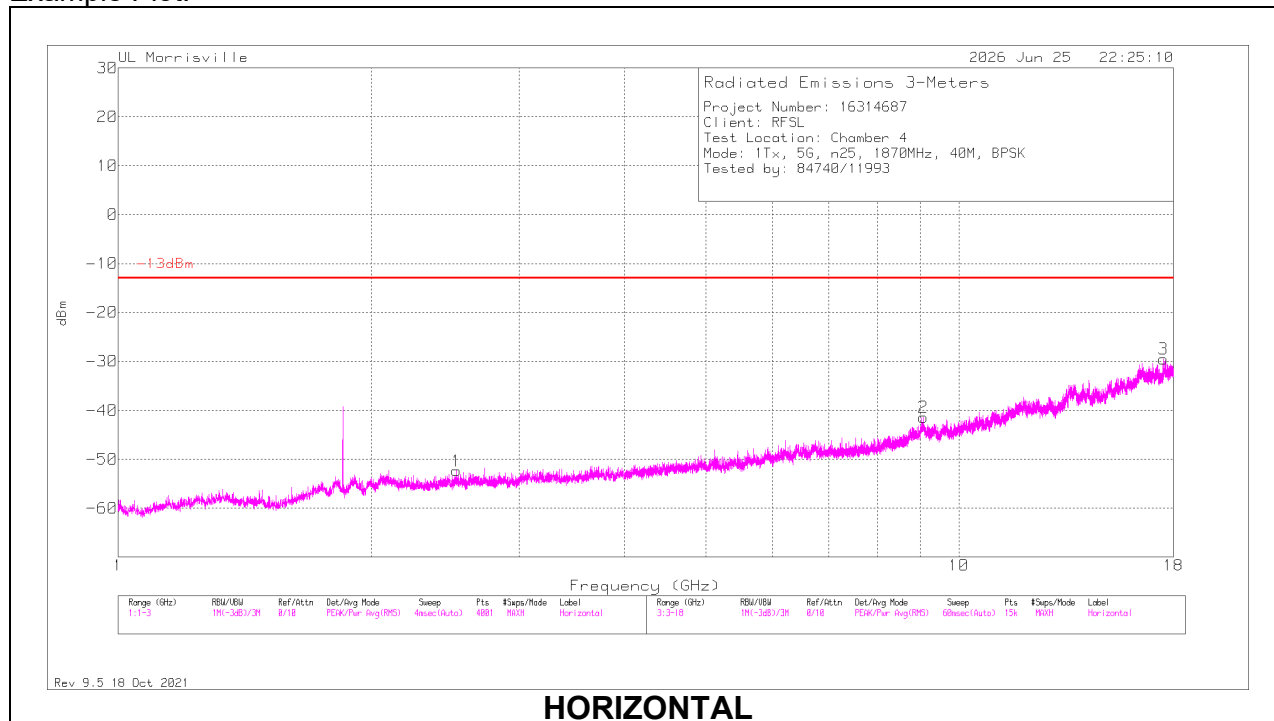
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

## 9.1. DATA REFERENCING

### RESULTS

Example Plot:



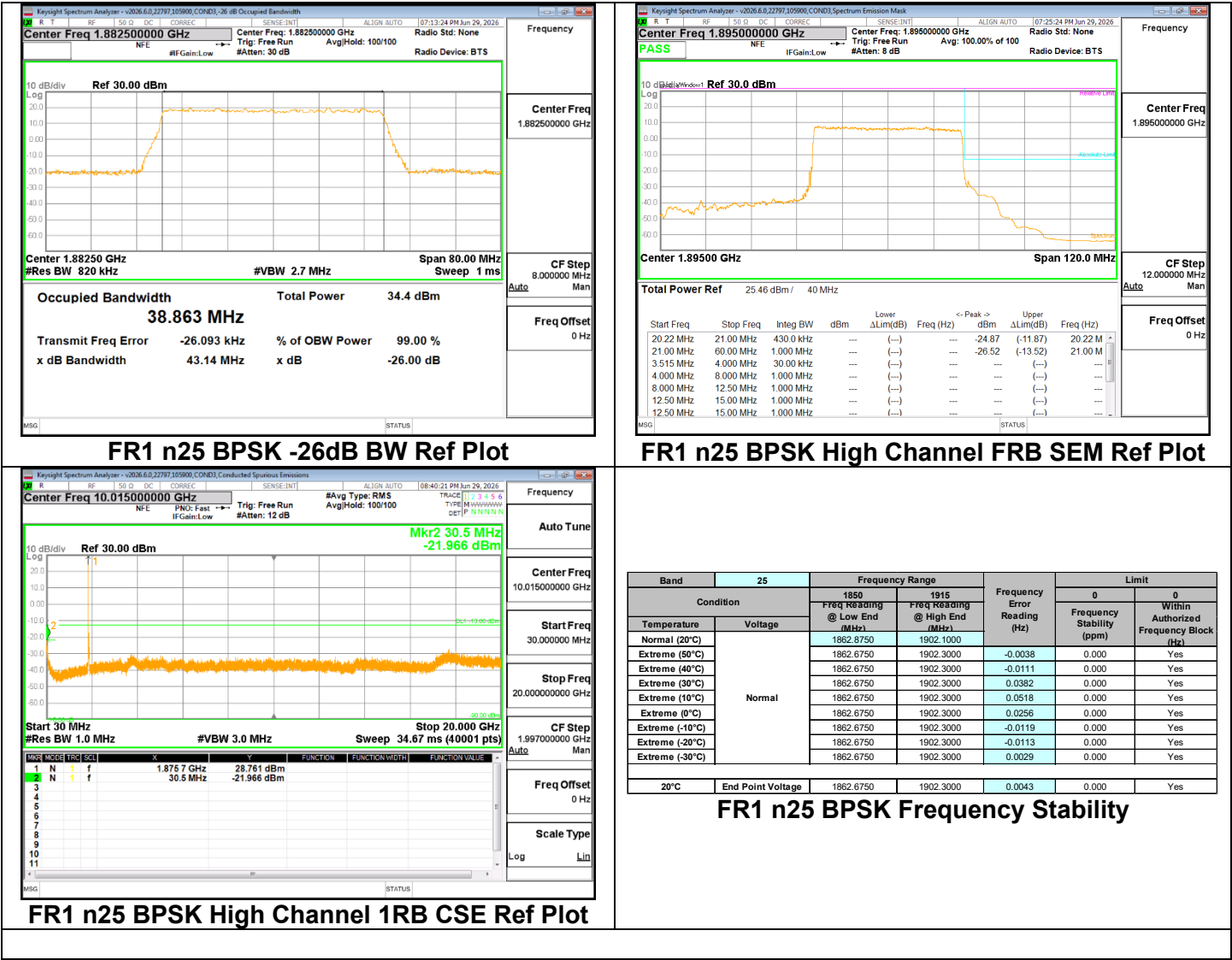
## RADIATED EMISSIONS TEST DATA

| FR1 n25    |                 |                     |     |                   |                |             |             |                       |        |             |                |             |          |
|------------|-----------------|---------------------|-----|-------------------|----------------|-------------|-------------|-----------------------|--------|-------------|----------------|-------------|----------|
| Marker     | Frequency (GHz) | Meter Reading (dBm) | Det | 135143 ACF (dB/m) | Gain/Loss (dB) | CF (dB)     | Filter (dB) | Corrected Reading dBm | -13dBm | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
| 1          | 2.5265          | -61.75              | Pk  | 32.6              | -35.7          | 11.8        | .7          | -52.35                | -13    | -39.35      | 0-360          | 200         | H        |
| 4          | 2.6255          | -61.44              | Pk  | 32.4              | -35.4          | 11.8        | .6          | -52.04                | -13    | -39.04      | 0-360          | 200         | V        |
| 5          | 9.059           | -66.07              | Pk  | 36.2              | -23.3          | 11.8        | 0           | -41.37                | -13    | -28.37      | 0-360          | 300         | V        |
| 2          | 9.075           | -66                 | Pk  | 36.3              | -23.5          | 11.8        | 0           | -41.4                 | -13    | -28.4       | 0-360          | 100         | H        |
| 3          | 17.503          | -65.36              | Pk  | 40.7              | -16.6          | 11.8        | 0           | -29.46                | -13    | -16.46      | 0-360          | 100         | H        |
| 6          | 17.576          | -68.21              | Pk  | 40.9              | -15.3          | 11.8        | 0           | -30.81                | -13    | -17.81      | 0-360          | 200         | V        |
| FR1 n26(5) |                 |                     |     |                   |                |             |             |                       |        |             |                |             |          |
| Marker     | Frequency (GHz) | Meter Reading (dBm) | Det | 135143 ACF (dB/m) | Gain/Loss (dB) | Filter (dB) | CF (dB)     | Corrected Reading dBm | -13dBm | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
| 1          | 2.4436          | -50.1               | Pk  | 32                | -35.6          | .5          | 11.8        | -41.4                 | -13    | -28.4       | 0-360          | 200         | H        |
| 4          | 2.4436          | -49.46              | Pk  | 32                | -35.6          | .5          | 11.8        | -40.76                | -13    | -27.76      | 0-360          | 300         | V        |
| 2          | 5.1238          | -65.85              | Pk  | 34.3              | -30.9          | .4          | 11.8        | -50.25                | -13    | -37.25      | 0-360          | 200         | H        |
| 5          | 5.1499          | -65.56              | Pk  | 34.3              | -31            | .4          | 11.8        | -50.06                | -13    | -37.06      | 0-360          | 300         | V        |
| 6          | 9.1225          | -67.1               | Pk  | 36.3              | -25            | .5          | 11.8        | -43.5                 | -13    | -30.5       | 0-360          | 300         | V        |
| 3          | 9.1387          | -66.23              | Pk  | 36.3              | -25            | .6          | 11.8        | -42.53                | -13    | -29.53      | 0-360          | 100         | H        |

Pk - Peak detector

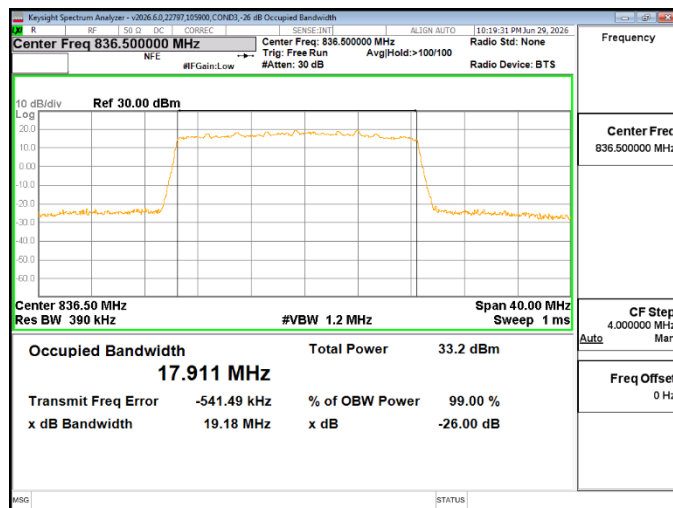
9.2. SUPPLEMENTAL CONDUCTED DATA

RESULTS

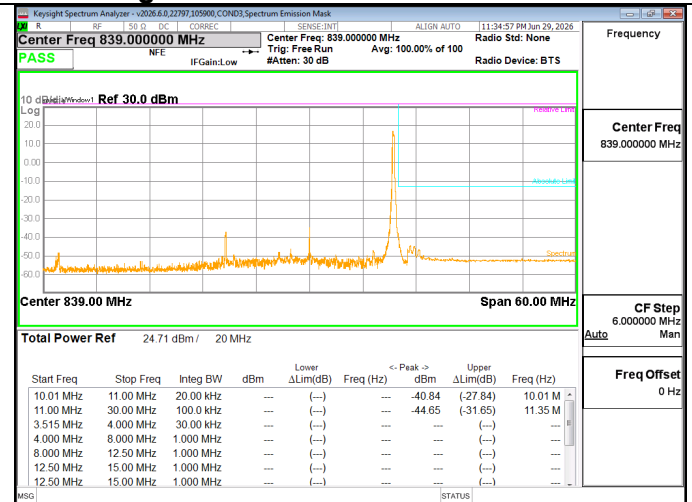


|                                                                                            | Band      | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average |
|--------------------------------------------------------------------------------------------|-----------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|-----------------|
|                                                                                            |           |                 |                 |               |           |            | Peak                  | Average | Power Ratio     |
| 5G NR n25                                                                                  | 5G NR n25 | 5MHz            | 1882.5          | 25            | 0         | BPSK       | 28.912                | 23.40   | 5.51            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 28.466                | 21.88   | 6.59            |
|                                                                                            |           | 10MHz           |                 | 50            | 0         | BPSK       | 29.103                | 23.40   | 5.70            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 28.612                | 21.88   | 6.73            |
|                                                                                            |           | 15MHz           |                 | 75            | 0         | BPSK       | 29.191                | 23.36   | 5.83            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 28.595                | 22.91   | 5.69            |
|                                                                                            |           | 20MHz           |                 | 100           | 0         | BPSK       | 29.411                | 23.39   | 6.02            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 28.622                | 21.84   | 6.78            |
|                                                                                            |           | 25MHz           |                 | 128           | 0         | BPSK       | 29.29                 | 23.41   | 5.88            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 28.921                | 21.82   | 7.10            |
|                                                                                            |           | 30MHz           |                 | 160           | 0         | BPSK       | 29.434                | 23.38   | 6.06            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 28.958                | 21.62   | 7.34            |
|                                                                                            |           | 35MHz           |                 | 180           | 0         | BPSK       | 29.159                | 23.31   | 5.85            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 29.051                | 21.79   | 7.26            |
|                                                                                            |           | 40MHz           |                 | 216           | 0         | BPSK       | 29.485                | 23.34   | 6.14            |
|                                                                                            |           |                 |                 |               |           | 16QAM      | 29.079                | 21.77   | 7.31            |
| Duty Cycle Correction Factor (dB) =                                                        |           |                 |                 |               |           |            |                       |         |                 |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |           |                 |                 |               |           |            |                       |         |                 |

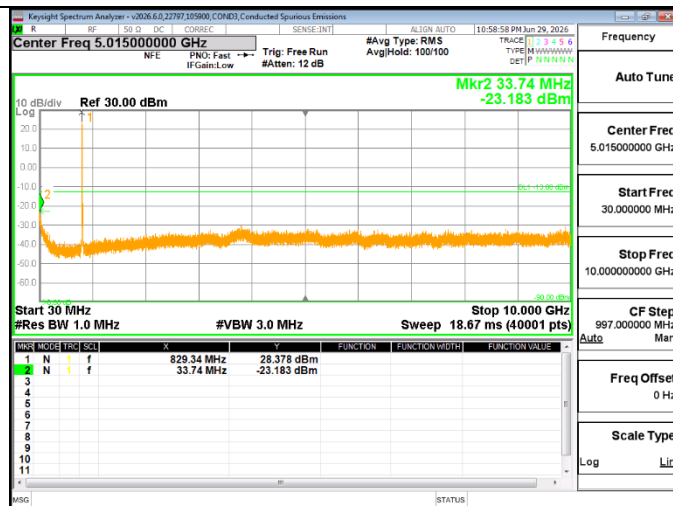
### FR1 n25 BPSK Peak to Average Ratio



FR1 n26(5) BPSK -26dB BW Ref Plot



FR1 n26(5) BPSK High Channel RB1-105 SEM Ref Plot



FR1 n26(5) BPSK High Channel 1RB CSE Ref Plot

| Band            | 26        | Frequency Range                  |                                   | Frequency Error Reading (Hz) | Limit                         |                                          |
|-----------------|-----------|----------------------------------|-----------------------------------|------------------------------|-------------------------------|------------------------------------------|
| Condition       |           | 824 Freq Reading @ Low End (MHz) | 849 Freq Reading @ High End (MHz) |                              | 2.5 Frequency Stability (ppm) | 0 Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage   |                                  |                                   |                              |                               |                                          |
| Normal (20°C)   | Normal    | 826.850000                       | 845.018750                        |                              |                               |                                          |
| Extreme (50°C)  |           | 826.756250                       | 845.131250                        | 0.0012                       | 0.000                         | Yes                                      |
| Extreme (40°C)  |           | 826.756250                       | 845.131250                        | 0.0008                       | 0.000                         | Yes                                      |
| Extreme (30°C)  |           | 826.756250                       | 845.131250                        | 0.0012                       | 0.000                         | Yes                                      |
| Extreme (10°C)  |           | 826.756250                       | 845.131250                        | 0.0005                       | 0.000                         | Yes                                      |
| Extreme (0°C)   |           | 826.756250                       | 845.131250                        | 0.0019                       | 0.000                         | Yes                                      |
| Extreme (-10°C) |           | 826.756250                       | 845.131250                        | 0.0014                       | 0.000                         | Yes                                      |
| Extreme (-20°C) |           | 826.756250                       | 845.131250                        | -0.0031                      | 0.000                         | Yes                                      |
| Extreme (-30°C) |           | 826.756250                       | 845.131250                        | 0.0008                       | 0.000                         | Yes                                      |
| 20°C            | End Point | 826.756250                       | 845.131250                        | 0.0021                       | 0.000                         | Yes                                      |

FR1 n26(5) BPSK Frequency Stability

| Band                                                                                       | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio |
|--------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|-----------------------------|
|                                                                                            |                 |                 |               |           |            | Peak                  | Average |                             |
| 5G NR n26<br>(FCC Part 22)                                                                 | 5MHz            | 836.5           | 25            | 0         | BPSK       | 28.326                | 23.35   | 4.97                        |
|                                                                                            |                 |                 |               |           | 16QAM      | 28.5                  | 21.83   | 6.68                        |
|                                                                                            | 10MHz           |                 | 50            | 0         | BPSK       | 28.96                 | 23.938  | 5.02                        |
|                                                                                            |                 |                 |               |           | 16QAM      | 29.05                 | 22.416  | 6.63                        |
|                                                                                            | 15MHz           |                 | 75            | 0         | BPSK       | 28.55                 | 23.354  | 5.20                        |
|                                                                                            |                 |                 |               |           | 16QAM      | 28.79                 | 21.93   | 6.86                        |
|                                                                                            | 20MHz           |                 | 100           | 0         | BPSK       | 28.33                 | 23.415  | 4.91                        |
|                                                                                            |                 |                 |               |           | 16QAM      | 28.93                 | 21.88   | 7.05                        |
| Duty Cycle Correction Factor (dB) =                                                        |                 |                 |               |           |            |                       |         |                             |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |                 |               |           |            |                       |         |                             |
| FR1 n26(5) BPSK Peak to Average Ratio                                                      |                 |                 |               |           |            |                       |         |                             |

## 10. SETUP PHOTOS

Refer to R16314687-EP1c for setup diagrams and setup photos.

**END OF REPORT**