



PART 22 MEASUREMENT REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

7/12 – 07/20/2021

Test Site/Location:

PCTEST Lab. Columbia, MD, USA

Test Report Serial No.:

1M2106280075-02.A3L

FCC ID:

A3LSMF926B

Applicant Name:

Samsung Electronics Co., Ltd.

Application Type:

Class II Permissive Change

Model:

SM-F926B

Additional Model(s):

SM-F926B/DS

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

22

Test Procedure(s):

ANSI C63.26-2015, ANSI/TIA-603-E-2016, KDB 971168
D01 v03r01, KDB 648474 D03 v01r04

Class II Permissive Change:

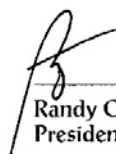
Please see FCC change document

Original Grant Date:

7/15/2021

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.


Randy Ortanez
President






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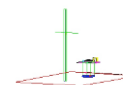
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| Mode | Modulation | Tx Frequency Range [MHz] | ERP | | EIRP | |
|----------|-----------------|--------------------------|----------------|------------------|----------------|------------------|
| | | | Max. Power [W] | Max. Power [dBm] | Max. Power [W] | Max. Power [dBm] |
| GSM/GPRS | GMSK | 824.2 - 848.8 | 0.387 | 25.88 | 0.635 | 28.03 |
| EDGE | 8-PSK | 824.2 - 848.8 | 0.173 | 22.37 | 0.283 | 24.52 |
| WCDMA | Spread Spectrum | 826.4 - 846.6 | 0.063 | 17.98 | 0.103 | 20.13 |

| Mode | Bandwidth | Modulation | Tx Frequency Range [MHz] | ERP | | EIRP | |
|---------------|----------------------|--------------|--------------------------|----------------|------------------|----------------|------------------|
| | | | | Max. Power [W] | Max. Power [dBm] | Max. Power [W] | Max. Power [dBm] |
| LTE Band 26/5 | 15MHz (Band 26 only) | QPSK | 831.5 - 841.5 | 0.060 | 17.75 | 0.098 | 19.90 |
| | | 16QAM | 831.5 - 841.5 | 0.050 | 16.96 | 0.081 | 19.11 |
| | 10 MHz | QPSK | 829.0 - 844.0 | 0.062 | 17.93 | 0.102 | 20.08 |
| | | 16QAM | 829.0 - 844.0 | 0.052 | 17.19 | 0.086 | 19.34 |
| | 5 MHz | QPSK | 826.5 - 846.5 | 0.063 | 17.99 | 0.103 | 20.14 |
| | | 16QAM | 826.5 - 846.5 | 0.056 | 17.52 | 0.093 | 19.67 |
| | 3 MHz | QPSK | 825.5 - 847.5 | 0.062 | 17.89 | 0.101 | 20.04 |
| | | 16QAM | 825.5 - 847.5 | 0.052 | 17.19 | 0.086 | 19.34 |
| | 1.4 MHz | QPSK | 824.7 - 848.3 | 0.060 | 17.82 | 0.099 | 19.97 |
| | | 16QAM | 824.7 - 848.3 | 0.052 | 17.13 | 0.085 | 19.28 |
| NR Band n5 | 20 MHz | $\pi/2$ BPSK | 834.0 - 839.0 | 0.072 | 18.60 | 0.119 | 20.75 |
| | | QPSK | 834.0 - 839.0 | 0.071 | 18.54 | 0.117 | 20.69 |
| | | 16QAM | 834.0 - 839.0 | 0.055 | 17.41 | 0.090 | 19.56 |
| | 15 MHz | $\pi/2$ BPSK | 831.5 - 841.5 | 0.073 | 18.65 | 0.120 | 20.80 |
| | | QPSK | 831.5 - 841.5 | 0.070 | 18.44 | 0.115 | 20.59 |
| | | 16QAM | 831.5 - 841.5 | 0.055 | 17.40 | 0.090 | 19.55 |
| | 10 MHz | $\pi/2$ BPSK | 829.0 - 844.0 | 0.070 | 18.47 | 0.115 | 20.62 |
| | | QPSK | 829.0 - 844.0 | 0.065 | 18.16 | 0.107 | 20.31 |
| | | 16QAM | 829.0 - 844.0 | 0.051 | 17.06 | 0.083 | 19.21 |
| | 5 MHz | $\pi/2$ BPSK | 826.5 - 846.5 | 0.070 | 18.46 | 0.115 | 20.61 |
| | | QPSK | 826.5 - 846.5 | 0.072 | 18.56 | 0.118 | 20.71 |
| | | 16QAM | 826.5 - 846.5 | 0.053 | 17.26 | 0.087 | 19.41 |

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.



1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISSED Standards (RSS).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISSED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF926B**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 22.

Test Device Serial No.: 0429M, 0405M

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (n5, n66), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer, UWB

LTE Band 26 (814.7 – 849 MHz) overlaps the entire frequency range of LTE Band 5 (824 – 849 MHz). Therefore, test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.

This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.

2.3 Test Configuration

The EUT was tested per the guidance of ANSI/TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 3 of this test report for a description of the radiated and antenna port conducted emissions tests.



This device supports two configurations: one is with screen open and one is with screen closed. Both configurations are tested, and the worst case radiated emissions data is shown in this report.

This device supports two additional antenna configurations for LTE/NR Low bands [AFS operation]: one is with two antennas transmitting from one feed, and one is with a singular antenna transmitting. Both configurations are tested, and the worst case radiated emissions data is shown in this report.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad(WCP) Model: EP-N5100 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the “Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards” (ANSI/TIA-603-E-2016) and “Measurement Guidance for Certification of Licensed Digital Transmitters” (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Power and Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated power measurements, substitution method is used per the guidance of ANSI/TIA-603-E-2016. A half-wave dipole is substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]};$$

where P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:



$$E_{\text{[dB}\mu\text{V/m]}} = \text{Measured amplitude level}_{\text{[dBm]}} + 107 + \text{Cable Loss}_{\text{[dB]}} + \text{Antenna Factor}_{\text{[dB/m]}}$$

And

$$\text{EIRP}_{\text{[dBm]}} = E_{\text{[dB}\mu\text{V/m]}} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 474788 D01.



Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI/TIA-603-E-2016.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Contribution | Expanded Uncertainty (\pm dB) |
|----------------------------------|----------------------------------|
| Conducted Bench Top Measurements | 1.13 |
| Radiated Disturbance (<1GHz) | 4.98 |
| Radiated Disturbance (>1GHz) | 5.07 |
| Radiated Disturbance (>18GHz) | 5.09 |

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5.0 TEST EQUIPMENT CALIBRATION DATA



Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|-----------------------|---------|--------------------------------|------------|--------------|------------|---------------|
| - | AP2 | EMC Cable and Switch System | 3/4/2021 | Annual | 3/4/2022 | AP2 |
| - | ETS | EMC Cable and Switch System | 3/4/2021 | Annual | 3/4/2022 | ETS |
| - | LTx1 | Licensed Transmitter Cable Set | 3/12/2021 | Annual | 3/12/2022 | LTx1 |
| - | LTx2 | Licensed Transmitter Cable Set | 3/12/2021 | Annual | 3/12/2022 | LTx2 |
| Anritsu | MT8821C | Radio Communication Analyzer | N/A | | | 6201381794 |
| Emco | 3115 | Horn Antenna (1-18GHz) | 6/18/2020 | Biennial | 6/18/2022 | 9704-5182 |
| Espec | ESX-2CA | Environmental Chamber | 8/27/2020 | Annual | 8/27/2022 | 17620 |
| ETS Lindgren | 3117 | 1-18 GHz DRG Horn (Medium) | 4/20/2021 | Biennial | 4/20/2023 | 00125518 |
| Keysight Technologies | N9020A | MXA Signal Analyzer | 9/22/2020 | Annual | 9/22/2021 | MY54500644 |
| Keysight Technologies | N9030A | PXA Signal Analyzer (44GHz) | 8/17/2020 | Annual | 8/17/2021 | MY52350166 |
| Rohde & Schwarz | CMW500 | Radio Communication Tester | N/A | | | 100976 |
| Rohde & Schwarz | CMW500 | Radio Communication Tester | N/A | | | 112347 |
| Sunol | JB5 | Bi-Log Antenna (30M - 5GHz) | 7/27/2020 | Biennial | 7/27/2022 | A051107 |
| Sunol | JB6 | LB6 Antenna | 11/13/2020 | Biennial | 11/13/2022 | A082816 |

Table 5-1. Test Equipment

Notes:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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6.0 SAMPLE CALCULATIONS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 250KG7W

EDGE BW = 250 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation



Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info



D = Data transmission, telemetry, telecommand

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Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm $- (-24.80) = 50.3$ dBc.

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7.0 TEST RESULTS

7.1 Summary



Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMF926B
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): NR/GSM/GPRS/EDGE/WCDMA/LTE

| Test Condition | Test Description | FCC Part Section(s) | RSS Section(s) | Test Limit | Test Result | Reference |
|----------------|--|---------------------|----------------|--|-------------|-------------|
| RADIATED | Effective Radiated Power / Equivalent Isotropic Radiated Power | 22.913(a)(5) | RSS-132(5.4) | < 7 Watts max. ERP | PASS | Section 7.2 |
| | Radiated Spurious Emissions | 2.1053, 22.917(a) | RSS-132(5.5) | > 43 + 10 log ₁₀ (P[Watts]) for all out-of-band emissions | PASS | Section 7.3 |

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST EMC Software Tool Beta 8

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7.2 Radiated Power (ERP)

Test Overview

Effective Radiated Power (ERP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.



Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

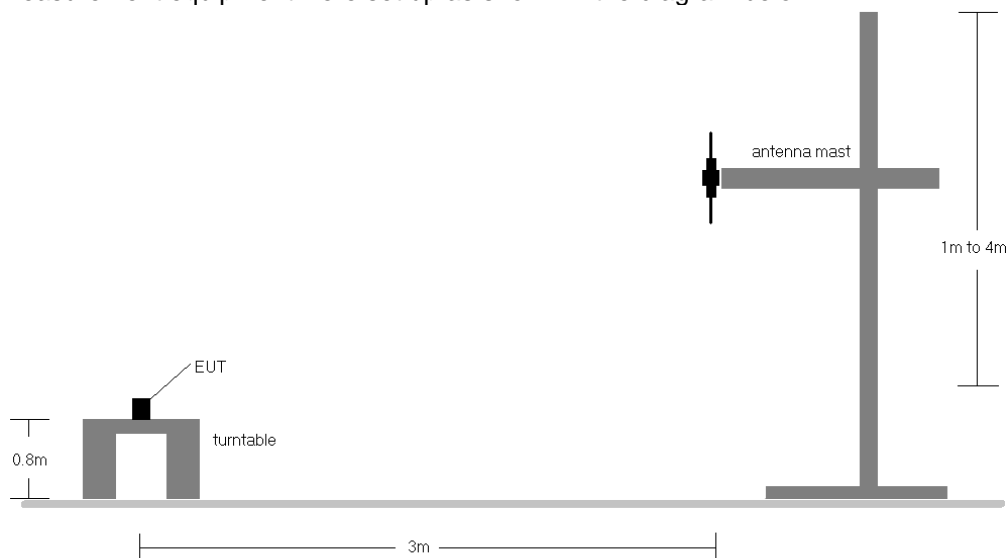


Figure 7-1. Radiated Test Setup <1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4) This unit was tested with its standard battery.
- 5) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 6) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------------|---------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|-----------------|-------------|
| 824.20 | GPRS850 | H | 221 | 339 | 20.42 | 6.65 | 24.92 | 0.310 | 38.45 | -13.53 |
| 836.60 | GPRS850 | H | 227 | 343 | 21.29 | 6.74 | 25.88 | 0.387 | 38.45 | -12.57 |
| 848.80 | GPRS850 | H | 395 | 326 | 20.15 | 6.73 | 24.73 | 0.297 | 38.45 | -13.73 |
| 836.60 | GPRS850 | V | 124 | 93 | 19.04 | 6.74 | 23.63 | 0.231 | 38.45 | -14.82 |
| 836.60 | EDGE850 | H | 227 | 343 | 17.78 | 6.74 | 22.37 | 0.173 | 38.45 | -16.08 |
| 836.60 | CLOSED | H | 231 | 321 | 20.58 | 6.74 | 25.17 | 0.329 | 38.45 | -13.28 |
| 836.60 | WCP | H | 246 | 255 | 15.58 | 6.74 | 20.17 | 0.104 | 38.45 | -18.28 |

Table 7-2. ERP Data (GPRS Cell) – AntA + AntB

| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------------|---------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|-----------------|-------------|
| 824.20 | GPRS850 | H | 214 | 304 | 21.30 | 6.65 | 25.80 | 0.380 | 38.45 | -12.65 |
| 836.60 | GPRS850 | H | 114 | 307 | 20.58 | 6.74 | 25.17 | 0.329 | 38.45 | -13.28 |
| 848.80 | GPRS850 | H | 204 | 304 | 20.48 | 6.73 | 25.06 | 0.320 | 38.45 | -13.40 |
| 824.20 | GPRS850 | V | 120 | 200 | 20.31 | 6.74 | 24.90 | 0.309 | 38.45 | -13.55 |
| 824.20 | EDGE850 | H | 214 | 304 | 10.99 | 6.74 | 15.58 | 0.036 | 38.45 | -22.87 |
| 824.20 | WCP | H | 358 | 280 | 18.07 | 6.65 | 22.57 | 0.181 | 38.45 | -15.88 |



Table 7-3. ERP Data (GPRS Cell) – AntA

| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|-----------------|-------------|
| 826.40 | WCDMA850 | H | 254 | 346 | 12.27 | 6.67 | 16.79 | 0.048 | 38.45 | -21.66 |
| 836.60 | WCDMA850 | H | 253 | 335 | 13.09 | 6.74 | 17.68 | 0.059 | 38.45 | -20.77 |
| 846.60 | WCDMA850 | H | 236 | 339 | 12.94 | 6.78 | 17.57 | 0.057 | 38.45 | -20.88 |
| 836.60 | WCDMA850 | V | 152 | 11 | 11.64 | 6.74 | 16.23 | 0.042 | 38.45 | -22.22 |
| 836.60 | CLOSED | H | 236 | 293 | 11.34 | 6.74 | 15.93 | 0.039 | 38.45 | -22.52 |
| 836.60 | WCP | V | 142 | 30 | 9.10 | 6.74 | 13.69 | 0.023 | 38.45 | -24.76 |

Table 7-4. ERP Data (WCDMA Cell) – AntA + AntB

| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|-----------------|-------------|
| 826.40 | WCDMA850 | H | 225 | 139 | 11.24 | 6.67 | 15.76 | 0.038 | 38.45 | -22.69 |
| 836.60 | WCDMA850 | H | 221 | 109 | 10.79 | 6.74 | 15.38 | 0.035 | 38.45 | -23.07 |
| 846.60 | WCDMA850 | H | 231 | 136 | 13.35 | 6.78 | 17.98 | 0.063 | 38.45 | -20.47 |
| 846.60 | WCDMA850 | V | 147 | 222 | 12.94 | 6.74 | 17.53 | 0.057 | 38.45 | -20.92 |
| 846.60 | WCP | H | 242 | 308 | 11.59 | 6.78 | 16.22 | 0.042 | 38.45 | -22.23 |

Table 7-5. ERP Data (WCDMA Cell) – AntA



| | | | |
|---|--|---|-----------------------------------|
| FCC ID: A3LSMF926B |  MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 14 of 36 |

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|----------------------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 15MHz (Band 26 only) | QPSK | 831.5 | H | 222 | 329 | 6.73 | 1 / 37 | 12.72 | 17.30 | 0.054 | 38.45 | -21.15 | 19.45 | 0.088 | 40.61 | -21.16 |
| | | 836.5 | H | 209 | 339 | 6.73 | 1 / 37 | 12.91 | 17.49 | 0.056 | 38.45 | -20.96 | 19.64 | 0.092 | 40.61 | -20.97 |
| | | 841.5 | H | 204 | 340 | 6.73 | 1 / 0 | 13.17 | 17.75 | 0.060 | 38.45 | -20.70 | 19.90 | 0.098 | 40.61 | -20.71 |
| | 16-QAM | 841.5 | H | 204 | 340 | 6.73 | 1 / 0 | 12.38 | 16.96 | 0.050 | 38.45 | -21.49 | 19.11 | 0.081 | 40.61 | -21.50 |
| 10 MHz | QPSK | 829.0 | H | 222 | 329 | 6.70 | 1 / 0 | 12.91 | 17.46 | 0.056 | 38.45 | -20.99 | 19.61 | 0.091 | 40.61 | -21.00 |
| | | 836.5 | H | 209 | 339 | 6.73 | 1 / 0 | 13.06 | 17.64 | 0.058 | 38.45 | -20.81 | 19.79 | 0.095 | 40.61 | -20.82 |
| | | 844.0 | H | 204 | 340 | 6.76 | 1 / 0 | 13.32 | 17.93 | 0.062 | 38.45 | -20.52 | 20.08 | 0.102 | 40.61 | -20.53 |
| | 16-QAM | 844.0 | H | 204 | 340 | 6.76 | 1 / 0 | 12.58 | 17.19 | 0.052 | 38.45 | -21.26 | 19.34 | 0.086 | 40.61 | -21.27 |
| 5 MHz | QPSK | 826.5 | H | 222 | 329 | 6.67 | 1 / 0 | 12.95 | 17.48 | 0.056 | 38.45 | -20.97 | 19.63 | 0.092 | 40.61 | -20.98 |
| | | 836.5 | H | 209 | 339 | 6.73 | 1 / 24 | 13.20 | 17.78 | 0.060 | 38.45 | -20.67 | 19.93 | 0.098 | 40.61 | -20.68 |
| | | 846.5 | H | 204 | 340 | 6.78 | 1 / 0 | 13.36 | 17.99 | 0.063 | 38.45 | -20.46 | 20.14 | 0.103 | 40.61 | -20.46 |
| | 16-QAM | 846.5 | H | 204 | 340 | 6.78 | 1 / 0 | 12.89 | 17.52 | 0.056 | 38.45 | -20.93 | 19.67 | 0.093 | 40.61 | -20.94 |
| 3 MHz | QPSK | 825.5 | H | 222 | 329 | 6.66 | 1 / 14 | 13.13 | 17.64 | 0.058 | 38.45 | -20.81 | 19.79 | 0.095 | 40.61 | -20.82 |
| | | 836.5 | H | 209 | 339 | 6.73 | 1 / 0 | 13.17 | 17.75 | 0.060 | 38.45 | -20.70 | 19.90 | 0.098 | 40.61 | -20.71 |
| | | 847.5 | H | 204 | 340 | 6.79 | 1 / 14 | 13.25 | 17.89 | 0.062 | 38.45 | -20.56 | 20.04 | 0.101 | 40.61 | -20.57 |
| | 16-QAM | 847.5 | H | 204 | 340 | 6.79 | 1 / 14 | 12.55 | 17.19 | 0.052 | 38.45 | -21.26 | 19.34 | 0.086 | 40.61 | -21.27 |
| 1.4 MHz | QPSK | 824.7 | H | 222 | 329 | 6.66 | 1 / 3 | 13.00 | 17.51 | 0.056 | 38.45 | -20.94 | 19.66 | 0.092 | 40.61 | -20.95 |
| | | 836.5 | H | 209 | 339 | 6.73 | 1 / 3 | 13.11 | 17.69 | 0.059 | 38.45 | -20.76 | 19.84 | 0.096 | 40.61 | -20.76 |
| | | 848.3 | H | 204 | 340 | 6.77 | 1 / 0 | 13.20 | 17.82 | 0.060 | 38.45 | -20.63 | 19.97 | 0.099 | 40.61 | -20.64 |
| | 16-QAM | 848.3 | H | 204 | 340 | 6.77 | 1 / 0 | 12.51 | 17.13 | 0.052 | 38.45 | -21.32 | 19.28 | 0.085 | 40.61 | -21.33 |
| 5 MHz | QPSK (Opposite Pol.) | 841.5 | V | 149 | 321 | 6.73 | 1 / 0 | 11.68 | 16.26 | 0.042 | 38.45 | -22.19 | 18.41 | 0.069 | 40.61 | -22.20 |
| | CLOSED | 841.5 | H | 214 | 311 | 6.73 | 1 / 0 | 13.01 | 17.59 | 0.057 | 38.45 | -20.86 | 19.74 | 0.094 | 40.61 | -20.87 |
| | QPSK(WCP) | 841.5 | H | 134 | 275 | 6.73 | 1 / 0 | 10.67 | 15.25 | 0.033 | 38.45 | -23.20 | 17.40 | 0.055 | 40.61 | -23.21 |

Table 7-6. ERP Data (LTE Band 26/5 AntA + AntB)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|----------------------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 15MHz (Band 26 only) | QPSK | 831.5 | H | 224 | 303 | 6.73 | 1 / 37 | 7.80 | 12.38 | 0.017 | 38.45 | -26.07 | 14.53 | 0.028 | 40.61 | -26.08 |
| | | 836.5 | H | 226 | 299 | 6.73 | 1 / 37 | 7.73 | 12.31 | 0.017 | 38.45 | -26.14 | 14.46 | 0.028 | 40.61 | -26.15 |
| | | 841.5 | H | 111 | 305 | 6.73 | 1 / 37 | 7.77 | 12.35 | 0.017 | 38.45 | -26.10 | 14.50 | 0.028 | 40.61 | -26.11 |
| | 16-QAM | 831.5 | H | 224 | 303 | 6.73 | 1 / 37 | 7.19 | 11.77 | 0.015 | 38.45 | -26.68 | 13.92 | 0.025 | 40.61 | -26.69 |
| 10 MHz | QPSK | 829.0 | H | 224 | 303 | 6.70 | 1 / 0 | 7.99 | 12.54 | 0.018 | 38.45 | -25.91 | 14.69 | 0.029 | 40.61 | -25.92 |
| | | 836.5 | H | 226 | 299 | 6.73 | 1 / 0 | 7.88 | 12.46 | 0.018 | 38.45 | -25.99 | 14.61 | 0.029 | 40.61 | -26.00 |
| | | 844.0 | H | 111 | 305 | 6.76 | 1 / 0 | 7.92 | 12.53 | 0.018 | 38.45 | -25.92 | 14.68 | 0.029 | 40.61 | -25.93 |
| | 16-QAM | 829.0 | H | 224 | 303 | 6.70 | 1 / 0 | 7.65 | 12.20 | 0.017 | 38.45 | -26.25 | 14.35 | 0.027 | 40.61 | -26.25 |
| 5 MHz | QPSK | 826.5 | H | 224 | 303 | 6.67 | 1 / 0 | 8.03 | 12.56 | 0.018 | 38.45 | -25.89 | 14.71 | 0.030 | 40.61 | -25.90 |
| | | 836.5 | H | 226 | 299 | 6.73 | 1 / 24 | 8.02 | 12.60 | 0.018 | 38.45 | -25.85 | 14.75 | 0.030 | 40.61 | -25.86 |
| | | 846.5 | H | 111 | 305 | 6.78 | 1 / 0 | 7.96 | 12.59 | 0.018 | 38.45 | -25.86 | 14.74 | 0.030 | 40.61 | -25.86 |
| | 16-QAM | 836.5 | H | 226 | 299 | 6.73 | 1 / 24 | 7.47 | 12.05 | 0.016 | 38.45 | -26.40 | 14.20 | 0.026 | 40.61 | -26.40 |
| 3 MHz | QPSK | 825.5 | H | 224 | 303 | 6.66 | 1 / 14 | 8.21 | 12.72 | 0.019 | 38.45 | -25.73 | 14.87 | 0.031 | 40.61 | -25.74 |
| | | 836.5 | H | 226 | 299 | 6.73 | 1 / 0 | 7.99 | 12.57 | 0.018 | 38.45 | -25.88 | 14.72 | 0.030 | 40.61 | -25.89 |
| | | 847.5 | H | 111 | 305 | 6.79 | 1 / 14 | 7.85 | 12.49 | 0.018 | 38.45 | -25.96 | 14.64 | 0.029 | 40.61 | -25.97 |
| | 16-QAM | 825.5 | H | 224 | 303 | 6.66 | 1 / 14 | 7.54 | 12.06 | 0.016 | 38.45 | -26.40 | 14.21 | 0.026 | 40.61 | -26.40 |
| 1.4 MHz | QPSK | 824.7 | H | 224 | 303 | 6.66 | 1 / 3 | 8.08 | 12.59 | 0.018 | 38.45 | -25.86 | 14.74 | 0.030 | 40.61 | -25.87 |
| | | 836.5 | H | 226 | 299 | 6.73 | 1 / 3 | 7.93 | 12.51 | 0.018 | 38.45 | -25.94 | 14.66 | 0.029 | 40.61 | -25.94 |
| | | 848.3 | H | 111 | 305 | 6.77 | 1 / 0 | 7.80 | 12.42 | 0.017 | 38.45 | -26.03 | 14.57 | 0.029 | 40.61 | -26.04 |
| | 16-QAM | 836.5 | H | 226 | 299 | 6.73 | 1 / 3 | 7.33 | 11.91 | 0.016 | 38.45 | -26.54 | 14.06 | 0.025 | 40.61 | -26.55 |
| 10 MHz | QPSK (Opposite Pol.) | 831.5 | V | 143 | 225 | 6.73 | 0.00 | 7.43 | 12.01 | 0.016 | 38.45 | -26.44 | 14.16 | 0.026 | 40.61 | -26.45 |
| | QPSK (WCP) | 831.5 | H | 254 | 272 | 6.73 | 0.00 | 4.94 | 9.52 | 0.009 | 38.45 | -28.93 | 11.67 | 0.015 | 40.61 | -28.94 |

Table 7-7. ERP Data (LTE Band 26/5 – AntA)



| | | | | |
|---|---|--|---|-----------------------------------|
| FCC ID: A3LSMF926B |  | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 15 of 36 |

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 20 MHz | π/2 BPSK | 834.0 | H | 249 | 337 | 6.65 | 1 / 53 | 13.82 | 18.32 | 0.068 | 38.45 | -20.13 | 20.47 | 0.111 | 40.61 | -20.13 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 53 | 14.02 | 18.60 | 0.072 | 38.45 | -19.85 | 20.75 | 0.119 | 40.61 | -19.86 |
| | | 839.0 | H | 246 | 340 | 6.80 | 1 / 53 | 13.47 | 18.12 | 0.065 | 38.45 | -20.33 | 20.27 | 0.107 | 40.61 | -20.33 |
| | QPSK | 834.0 | H | 249 | 337 | 6.65 | 1 / 53 | 13.83 | 18.33 | 0.068 | 38.45 | -20.12 | 20.48 | 0.112 | 40.61 | -20.12 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 53 | 13.96 | 18.54 | 0.071 | 38.45 | -19.91 | 20.69 | 0.117 | 40.61 | -19.92 |
| | | 839.0 | H | 246 | 340 | 6.80 | 1 / 53 | 13.39 | 18.04 | 0.064 | 38.45 | -20.41 | 20.19 | 0.105 | 40.61 | -20.41 |
| 15 MHz | π/2 BPSK | 836.5 | H | 257 | 343 | 6.73 | 1 / 53 | 12.83 | 17.41 | 0.055 | 38.45 | -21.04 | 19.56 | 0.090 | 40.61 | -21.05 |
| | | 831.5 | H | 249 | 337 | 6.73 | 1 / 39 | 13.76 | 18.34 | 0.068 | 38.45 | -20.11 | 20.49 | 0.112 | 40.61 | -20.12 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 20 | 14.07 | 18.65 | 0.073 | 38.45 | -19.80 | 20.80 | 0.120 | 40.61 | -19.80 |
| | QPSK | 841.5 | H | 246 | 340 | 6.73 | 1 / 20 | 13.52 | 18.10 | 0.065 | 38.45 | -20.35 | 20.25 | 0.106 | 40.61 | -20.36 |
| | | 831.5 | H | 249 | 337 | 6.73 | 1 / 39 | 13.63 | 18.21 | 0.066 | 38.45 | -20.24 | 20.36 | 0.109 | 40.61 | -20.25 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 20 | 13.86 | 18.44 | 0.070 | 38.45 | -20.01 | 20.59 | 0.115 | 40.61 | -20.02 |
| 10 MHz | π/2 BPSK | 841.5 | H | 246 | 340 | 6.73 | 1 / 20 | 13.45 | 18.03 | 0.063 | 38.45 | -20.42 | 20.18 | 0.104 | 40.61 | -20.43 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 20 | 12.83 | 17.40 | 0.055 | 38.45 | -21.05 | 19.55 | 0.090 | 40.61 | -21.05 |
| | | 829.0 | H | 249 | 337 | 6.70 | 1 / 13 | 13.62 | 18.18 | 0.066 | 38.45 | -20.28 | 20.33 | 0.108 | 40.61 | -20.28 |
| | QPSK | 836.5 | H | 257 | 343 | 6.73 | 1 / 13 | 13.90 | 18.47 | 0.070 | 38.45 | -19.98 | 20.62 | 0.115 | 40.61 | -19.98 |
| | | 844.0 | H | 246 | 340 | 6.76 | 1 / 26 | 13.34 | 17.95 | 0.062 | 38.45 | -20.50 | 20.10 | 0.102 | 40.61 | -20.51 |
| | | 829.0 | H | 249 | 337 | 6.70 | 1 / 13 | 13.52 | 18.07 | 0.064 | 38.45 | -20.38 | 20.22 | 0.105 | 40.61 | -20.39 |
| 5 MHz | QPSK | 836.5 | H | 257 | 343 | 6.73 | 1 / 13 | 13.58 | 18.16 | 0.065 | 38.45 | -20.29 | 20.31 | 0.107 | 40.61 | -20.30 |
| | | 844.0 | H | 246 | 340 | 6.76 | 1 / 26 | 13.36 | 17.96 | 0.063 | 38.45 | -20.49 | 20.11 | 0.103 | 40.61 | -20.49 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 13 | 12.48 | 17.06 | 0.051 | 38.45 | -21.39 | 19.21 | 0.083 | 40.61 | -21.40 |
| | π/2 BPSK | 829.0 | H | 249 | 337 | 6.67 | 1 / 6 | 13.68 | 18.20 | 0.066 | 38.45 | -20.25 | 20.35 | 0.108 | 40.61 | -20.25 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 6 | 13.88 | 18.46 | 0.070 | 38.45 | -19.99 | 20.61 | 0.115 | 40.61 | -20.00 |
| | | 844.0 | H | 246 | 340 | 6.78 | 1 / 12 | 13.05 | 17.68 | 0.059 | 38.45 | -20.77 | 19.83 | 0.096 | 40.61 | -20.78 |
| 15 MHz | QPSK | 829.0 | H | 249 | 337 | 6.67 | 1 / 6 | 13.66 | 18.19 | 0.066 | 38.45 | -20.26 | 20.34 | 0.108 | 40.61 | -20.27 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 6 | 13.98 | 18.56 | 0.072 | 38.45 | -19.89 | 20.71 | 0.118 | 40.61 | -19.90 |
| | | 844.0 | H | 246 | 340 | 6.78 | 1 / 12 | 13.12 | 17.75 | 0.060 | 38.45 | -20.70 | 19.90 | 0.098 | 40.61 | -20.71 |
| | π/2 BPSK | 836.5 | H | 257 | 343 | 6.73 | 1 / 6 | 12.68 | 17.26 | 0.053 | 38.45 | -21.19 | 19.41 | 0.087 | 40.61 | -21.20 |
| | | 836.5 | H | 257 | 343 | 6.73 | 1 / 20 | 14.23 | 18.81 | 0.076 | 38.45 | -19.64 | 20.96 | 0.125 | 40.61 | -19.65 |
| | | 836.5 | V | 182 | 122 | 6.73 | 1 / 20 | 12.91 | 17.49 | 0.056 | 38.45 | -20.96 | 19.64 | 0.092 | 40.61 | -20.97 |
| 15 MHz | QPSK (WCP) | 836.5 | H | 182 | 122 | 6.73 | 1 / 20 | 8.57 | 13.15 | 0.021 | 38.45 | -25.30 | 15.30 | 0.034 | 40.61 | -25.31 |
| | | 836.5 | H | 171 | 235 | 6.73 | 1 / 20 | 11.57 | 16.15 | 0.041 | 38.45 | -22.30 | 18.30 | 0.068 | 40.61 | -22.31 |

Table 7-8. ERP Data (NR Band n5 – AntA + AntB)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 20 MHz | π/2 BPSK | 834.0 | H | 214 | 344 | 6.65 | 1 / 53 | 12.59 | 17.09 | 0.051 | 38.45 | -21.36 | 19.24 | 0.084 | 40.61 | -21.36 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 53 | 13.49 | 18.07 | 0.064 | 38.45 | -20.38 | 20.22 | 0.105 | 40.61 | -20.39 |
| | | 839.0 | H | 230 | 340 | 6.80 | 1 / 53 | 12.89 | 17.54 | 0.057 | 38.45 | -20.91 | 19.69 | 0.093 | 40.61 | -20.91 |
| | QPSK | 834.0 | H | 214 | 344 | 6.65 | 1 / 53 | 12.54 | 17.04 | 0.051 | 38.45 | -21.41 | 19.19 | 0.083 | 40.61 | -21.41 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 53 | 13.39 | 17.97 | 0.063 | 38.45 | -20.48 | 20.12 | 0.103 | 40.61 | -20.49 |
| | | 839.0 | H | 230 | 340 | 6.80 | 1 / 53 | 12.74 | 17.39 | 0.055 | 38.45 | -21.06 | 19.54 | 0.090 | 40.61 | -21.06 |
| 16-QAM | 836.5 | H | 222 | 343 | 6.73 | 1 / 53 | 12.59 | 17.17 | 0.052 | 38.45 | -21.28 | 19.32 | 0.085 | 40.61 | -21.29 | |
| 15 MHz | π/2 BPSK | 831.5 | H | 214 | 344 | 6.73 | 1 / 39 | 12.53 | 17.11 | 0.051 | 38.45 | -21.34 | 19.26 | 0.084 | 40.61 | -21.35 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 20 | 13.54 | 18.12 | 0.065 | 38.45 | -20.33 | 20.27 | 0.106 | 40.61 | -20.33 |
| | | 841.5 | H | 230 | 340 | 6.73 | 1 / 20 | 12.94 | 17.52 | 0.056 | 38.45 | -20.93 | 19.67 | 0.093 | 40.61 | -20.94 |
| | QPSK | 831.5 | H | 214 | 344 | 6.73 | 1 / 39 | 12.34 | 16.92 | 0.049 | 38.45 | -21.53 | 19.07 | 0.081 | 40.61 | -21.54 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 20 | 13.29 | 17.87 | 0.061 | 38.45 | -20.58 | 20.02 | 0.100 | 40.61 | -20.59 |
| | | 841.5 | H | 230 | 340 | 6.73 | 1 / 20 | 12.80 | 17.38 | 0.055 | 38.45 | -21.07 | 19.53 | 0.090 | 40.61 | -21.08 |
| 16-QAM | 836.5 | H | 222 | 343 | 6.73 | 1 / 20 | 12.59 | 17.16 | 0.052 | 38.45 | -21.29 | 19.31 | 0.085 | 40.61 | -21.29 | |
| 10 MHz | π/2 BPSK | 829.0 | H | 214 | 344 | 6.70 | 1 / 13 | 12.39 | 16.95 | 0.049 | 38.45 | -21.51 | 19.10 | 0.081 | 40.61 | -21.51 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 13 | 13.37 | 17.94 | 0.062 | 38.45 | -20.51 | 20.09 | 0.102 | 40.61 | -20.51 |
| | | 844.0 | H | 230 | 340 | 6.76 | 1 / 26 | 12.76 | 17.37 | 0.055 | 38.45 | -21.08 | 19.52 | 0.089 | 40.61 | -21.09 |
| | QPSK | 829.0 | H | 214 | 344 | 6.70 | 1 / 13 | 12.23 | 16.78 | 0.048 | 38.45 | -21.67 | 18.93 | 0.078 | 40.61 | -21.68 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 13 | 13.01 | 17.59 | 0.057 | 38.45 | -20.86 | 19.74 | 0.094 | 40.61 | -20.87 |
| | | 844.0 | H | 230 | 340 | 6.76 | 1 / 26 | 12.71 | 17.31 | 0.054 | 38.45 | -21.14 | 19.46 | 0.088 | 40.61 | -21.14 |
| 16-QAM | 836.5 | H | 222 | 343 | 6.73 | 1 / 13 | 12.24 | 16.82 | 0.048 | 38.45 | -21.63 | 18.97 | 0.079 | 40.61 | -21.64 | |
| 5 MHz | π/2 BPSK | 829.0 | H | 214 | 344 | 6.67 | 1 / 6 | 12.45 | 16.97 | 0.050 | 38.45 | -21.48 | 19.12 | 0.082 | 40.61 | -21.48 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 6 | 13.35 | 17.93 | 0.062 | 38.45 | -20.52 | 20.08 | 0.102 | 40.61 | -20.53 |
| | | 844.0 | H | 230 | 340 | 6.78 | 1 / 12 | 12.47 | 17.10 | 0.051 | 38.45 | -21.35 | 19.25 | 0.084 | 40.61 | -21.36 |
| | QPSK | 829.0 | H | 214 | 344 | 6.67 | 1 / 6 | 12.37 | 16.90 | 0.049 | 38.45 | -21.55 | 19.05 | 0.080 | 40.61 | -21.56 |
| | | 836.5 | H | 222 | 343 | 6.73 | 1 / 6 | 13.41 | 17.99 | 0.063 | 38.45 | -20.46 | 20.14 | 0.103 | 40.61 | -20.47 |
| | | 844.0 | H | 230 | 340 | 6.78 | 1 / 12 | 12.47 | 17.10 | 0.051 | 38.45 | -21.35 | 19.25 | 0.084 | 40.61 | -21.36 |
| 16-QAM | 836.5 | H | 222 | 343 | 6.73 | 1 / 6 | 12.44 | 17.02 | 0.050 | 38.45 | -21.43 | 19.17 | 0.083 | 40.61 | -21.44 | |
| 15 MHz | QPSK (CP-OFDM) | 836.5 | H | 214 | 344 | 6.73 | 0.00 | 12.04 | 16.62 | 0.046 | 38.45 | -21.83 | 18.77 | 0.075 | 40.61 | -21.84 |
| | QPSK (Opposite Pol.) | 836.5 | V | 246 | 357 | 6.73 | 0.00 | 11.68 | 16.26 | 0.042 | 38.45 | -22.19 | 18.41 | 0.069 | 40.61 | -22.20 |
| | QPSK (WCP) | 836.5 | H | 259 | 270 | 6.73 | 0.00 | 10.27 | 14.85 | 0.031 | 38.45 | -23.60 | 17.00 | 0.050 | 40.61 | -23.61 |
| | | | | | | | | | | | | | | | | |

Table 7-9. ERP Data (NR Band n5 – AntA)

| | | | | |
|---|---|--|---|-----------------------------------|
| FCC ID: A3LSMF926B |  | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 16 of 36 |

7.3 Radiated Spurious Emissions Measurements

Test Overview



Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

| | | | | |
|---|---|--|---|-----------------------------------|
| FCC ID: A3LSMF926B |  PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 17 of 36 |

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

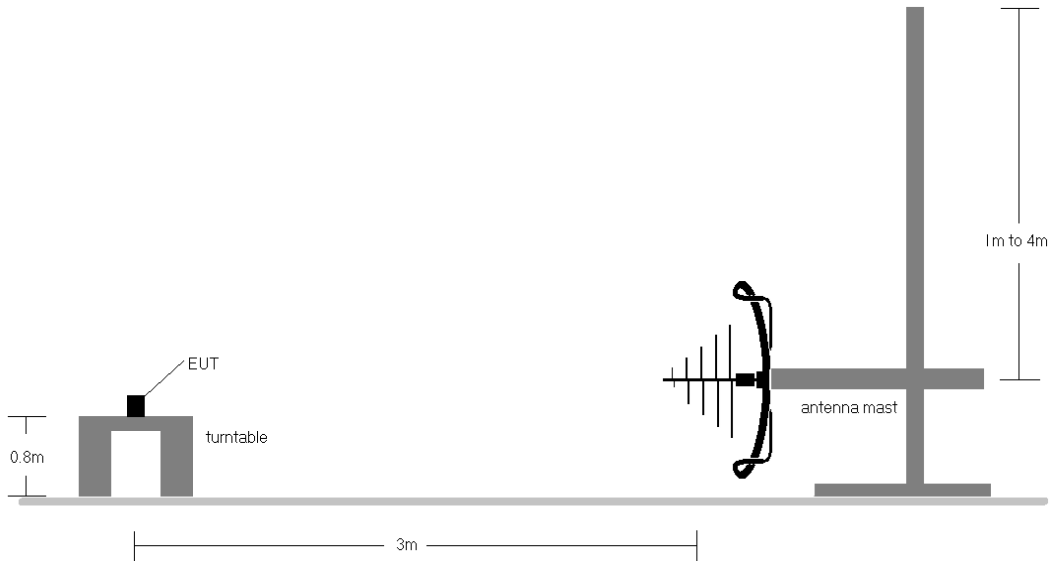


Figure 7-2. Test Instrument & Measurement Setup < 1GHz

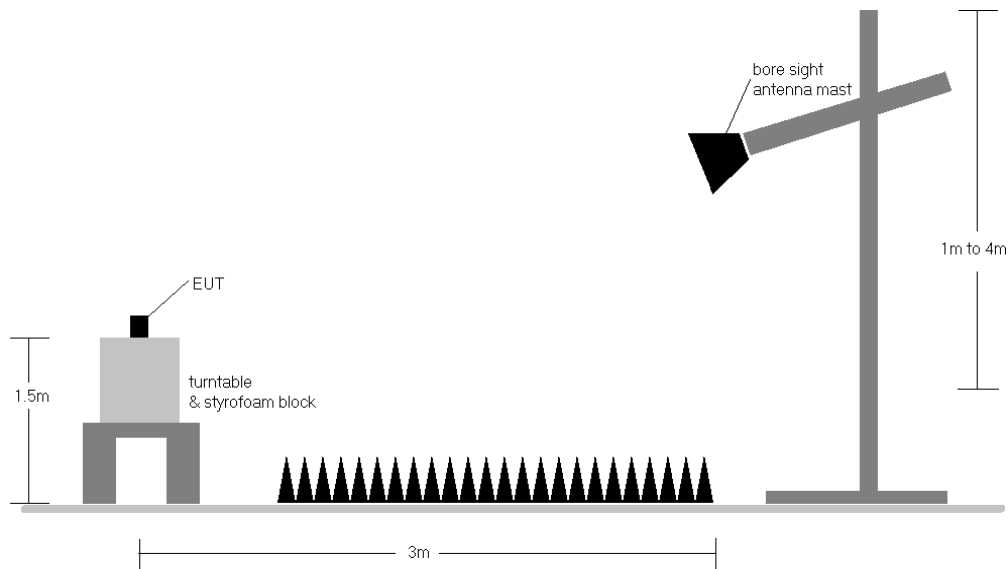




Figure 7-3. Test Instrument & Measurement Setup >1 GHz

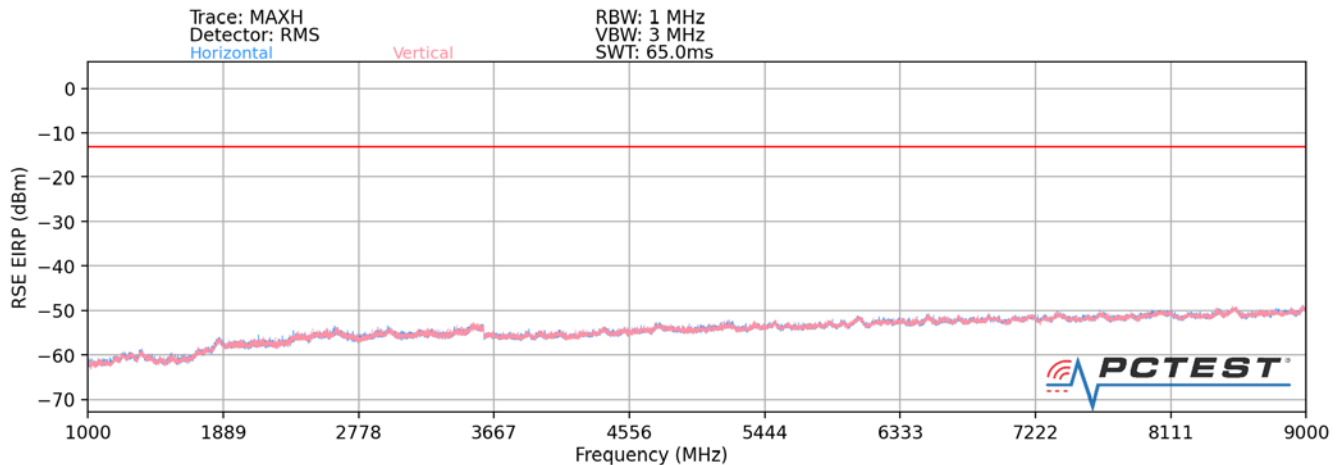
| | | | |
|--|--|--|--|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 18 of 36 |

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - b) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 5) This unit was tested with its standard battery..
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 10) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 11) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF926B |  MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)  | | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 19 of 36 |

GSM/GPRS Cell AntA + AntB



Plot 7-1. Radiated Spurious Plot (GPRS Cell) – OPEN

| | |
|------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 128 |
| Frequency (MHz): | 824.2 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1648.4 | H | - | - | -65.74 | -2.58 | 38.68 | -56.57 | -13.00 | -43.57 |
| 2472.6 | H | - | - | -66.95 | 1.99 | 42.04 | -53.22 | -13.00 | -40.22 |
| 3296.8 | H | - | - | -67.34 | 2.47 | 42.13 | -53.12 | -13.00 | -40.12 |
| 4121.0 | H | - | - | -70.65 | 3.44 | 39.79 | -55.47 | -13.00 | -42.47 |

Table 7-10. Radiated Spurious Data (GPRS Cell – Low Channel) – OPEN

| | |
|------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 190 |
| Frequency (MHz): | 836.6 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.2 | H | 145 | 197 | -67.81 | -2.27 | 36.92 | -58.33 | -13.00 | -45.33 |
| 2509.8 | H | 140 | 215 | -60.75 | 2.22 | 48.47 | -46.78 | -13.00 | -33.78 |
| 3346.4 | H | - | - | -68.14 | 2.42 | 41.28 | -53.98 | -13.00 | -40.98 |
| 4183.0 | H | - | - | -70.93 | 3.46 | 39.53 | -55.73 | -13.00 | -42.73 |



Table 7-11. Radiated Spurious Data (GPRS Cell – Mid Channel) - OPEN

| | | | |
|---|--|---|--|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 20 of 36 |

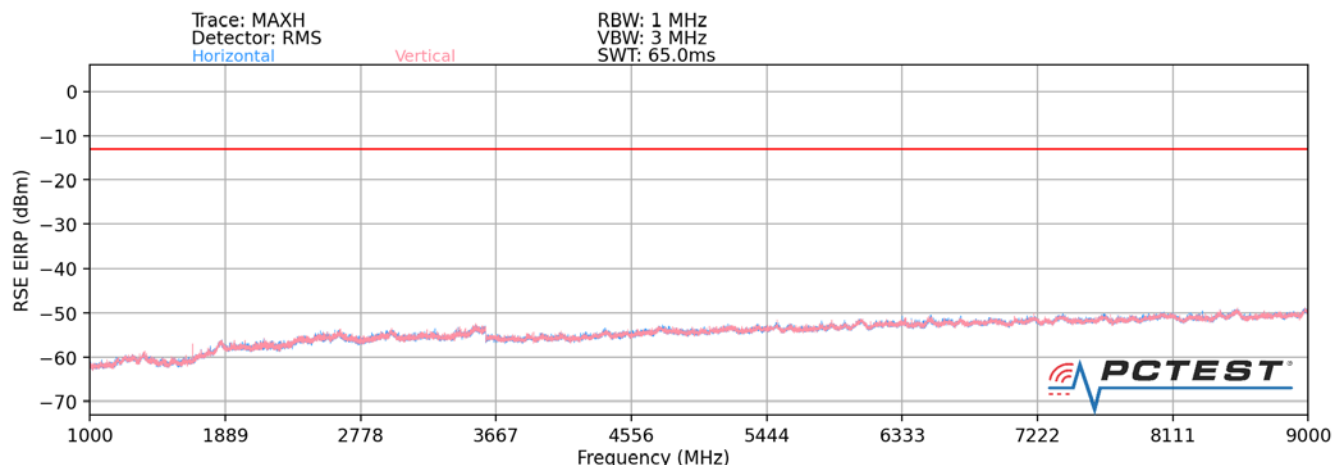
| | |
|-------------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 251 |
| Frequency (MHz): | 848.8 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1697.6 | H | - | - | -67.02 | -1.68 | 38.30 | -56.96 | -13.00 | -43.96 |
| 2546.4 | H | 116 | 10 | -64.80 | 2.45 | 44.65 | -50.61 | -13.00 | -37.61 |
| 3395.2 | H | - | - | -66.85 | 2.39 | 42.54 | -52.72 | -13.00 | -39.72 |
| 4244.0 | H | - | - | -71.09 | 3.67 | 39.58 | -55.67 | -13.00 | -42.67 |

Table 7-12. Radiated Spurious Data (GPRS Cell – High Channel) – OPEN

| | | | |
|--|--|--------------------------------------|--|
| FCC ID: A3LSMF926B |  MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)  | | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 21 of 36 |

GSM/GPRS Cell AntA



Plot 7-2. Radiated Spurious Plot (GPRS Cell) - CLOSED

| | |
|------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 128 |
| Frequency (MHz): | 824.2 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1648.4 | H | - | - | -65.46 | -2.58 | 38.96 | -56.29 | -13.00 | -43.29 |
| 2472.6 | H | 155 | 189 | -66.61 | 1.99 | 42.38 | -52.88 | -13.00 | -39.88 |
| 3296.8 | H | - | - | -67.75 | 2.47 | 41.72 | -53.53 | -13.00 | -40.53 |
| 4121.0 | H | - | - | -71.06 | 3.44 | 39.38 | -55.88 | -13.00 | -42.88 |

Table 7-13. Radiated Spurious Data (GPRS Cell – Low Channel) - CLOSED

| | |
|------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 190 |
| Frequency (MHz): | 836.6 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.2 | H | 141 | 195 | -68.77 | -2.27 | 35.96 | -59.29 | -13.00 | -46.29 |
| 2509.8 | H | 157 | 148 | -63.88 | 2.22 | 45.34 | -49.91 | -13.00 | -36.91 |
| 3346.4 | H | - | - | -66.94 | 2.42 | 42.48 | -52.78 | -13.00 | -39.78 |
| 4183.0 | H | - | - | -70.83 | 3.46 | 39.63 | -55.63 | -13.00 | -42.63 |



Table 7-14. Radiated Spurious Data (GPRS Cell – Mid Channel) - CLOSED

| | | | |
|---|--|---|--|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 22 of 36 |

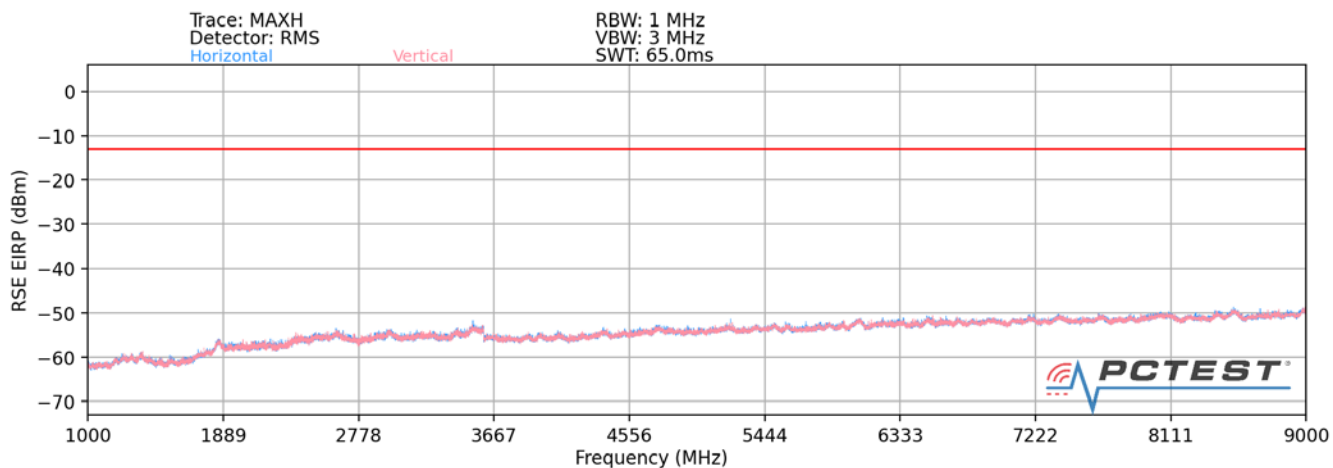
| | |
|-------------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 251 |
| Frequency (MHz): | 848.8 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1697.6 | H | - | - | -68.31 | -1.68 | 37.01 | -58.25 | -13.00 | -45.25 |
| 2546.4 | H | 153 | 324 | -66.58 | 2.45 | 42.87 | -52.39 | -13.00 | -39.39 |
| 3395.2 | H | - | - | -67.74 | 2.39 | 41.65 | -53.61 | -13.00 | -40.61 |
| 4244.0 | H | - | - | -70.77 | 3.67 | 39.90 | -55.35 | -13.00 | -42.35 |

Table 7-15. Radiated Spurious Data (GPRS Cell – High Channel) - CLOSED

| | | | |
|--|--|--------------------------------------|--|
| FCC ID: A3LSMF926B |  MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)  | | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 23 of 36 |

WCDMA Cell AntA + AntB



Plot 7-3. Radiated Spurious Plot (WCDMA Cell) - OPEN

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 4132 |
| Frequency (MHz): | 826.4 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1652.8 | H | - | - | -67.99 | -2.52 | 36.49 | -58.77 | -13.00 | -45.77 |
| 2479.2 | H | - | - | -66.90 | 2.03 | 42.13 | -53.13 | -13.00 | -40.13 |
| 3305.6 | H | - | - | -66.29 | 2.42 | 43.13 | -52.13 | -13.00 | -39.13 |

Table 7-16. Radiated Spurious Data (WCDMA Cell – Low Channel) - OPEN

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 4183 |
| Frequency (MHz): | 836.6 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.2 | H | - | - | -68.06 | -2.27 | 36.67 | -58.58 | -13.00 | -45.58 |
| 2509.8 | H | - | - | -67.88 | 2.22 | 41.34 | -53.91 | -13.00 | -40.91 |
| 3346.4 | H | - | - | -68.66 | 2.42 | 40.76 | -54.50 | -13.00 | -41.50 |



Table 7-17. Radiated Spurious Data (WCDMA Cell – Mid Channel) - OPEN

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 4233 |
| Frequency (MHz): | 846.6 |

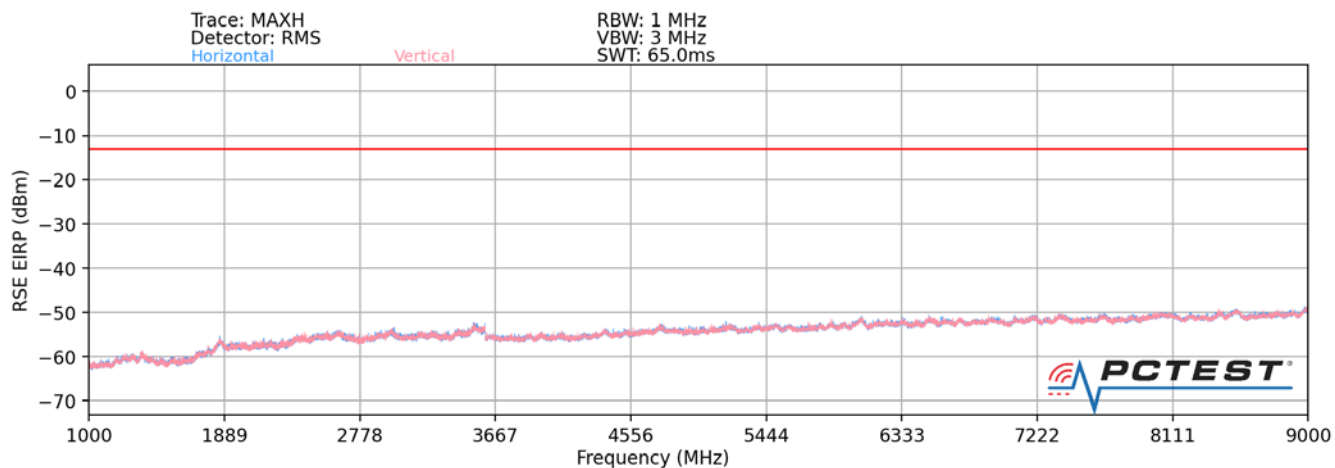
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1693.2 | H | - | - | -68.29 | -1.82 | 36.89 | -58.36 | -13.00 | -45.36 |
| 2539.8 | H | - | - | -67.70 | 2.33 | 41.63 | -53.63 | -13.00 | -40.63 |
| 3386.4 | H | - | - | -66.50 | 2.32 | 42.82 | -52.43 | -13.00 | -39.43 |

| | | | | |
|---|--|---|--|-----------------------------------|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 24 of 36 |

Table 7-18. Radiated Spurious Data (WCDMA Cell – High Channel) – OPEN

| | | | |
|--|--|--------------------------------------|--|
| FCC ID: A3LSMF926B |  MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)  | | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 25 of 36 |

WCDMA Cell AntA



Plot 7-4. Radiated Spurious Plot (WCDMA Cell) - CLOSED

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 4132 |
| Frequency (MHz): | 826.4 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1652.8 | H | - | - | -71.55 | -2.52 | 32.93 | -62.33 | -13.00 | -49.33 |
| 2479.2 | H | 120 | 183 | -67.54 | 2.03 | 41.49 | -53.77 | -13.00 | -40.77 |
| 3305.6 | H | - | - | -72.45 | 2.42 | 36.97 | -58.29 | -13.00 | -45.29 |
| 4132.0 | H | - | - | -75.54 | 3.25 | 34.71 | -60.55 | -13.00 | -47.55 |

Table 7-19. Radiated Spurious Data (WCDMA Cell – Low Channel) - CLOSED

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 4183 |
| Frequency (MHz): | 836.6 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.2 | H | - | - | -71.72 | -2.27 | 33.01 | -62.24 | -13.00 | -49.24 |
| 2509.8 | H | - | - | -71.87 | 2.22 | 37.35 | -57.90 | -13.00 | -44.90 |
| 3346.4 | H | - | - | -71.81 | 2.42 | 37.61 | -57.65 | -13.00 | -44.65 |



Table 7-20. Radiated Spurious Data (WCDMA Cell – Mid Channel) – CLOSED

| | | | | |
|---|--|--|----------------|-----------------------------------|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 26 of 36 |

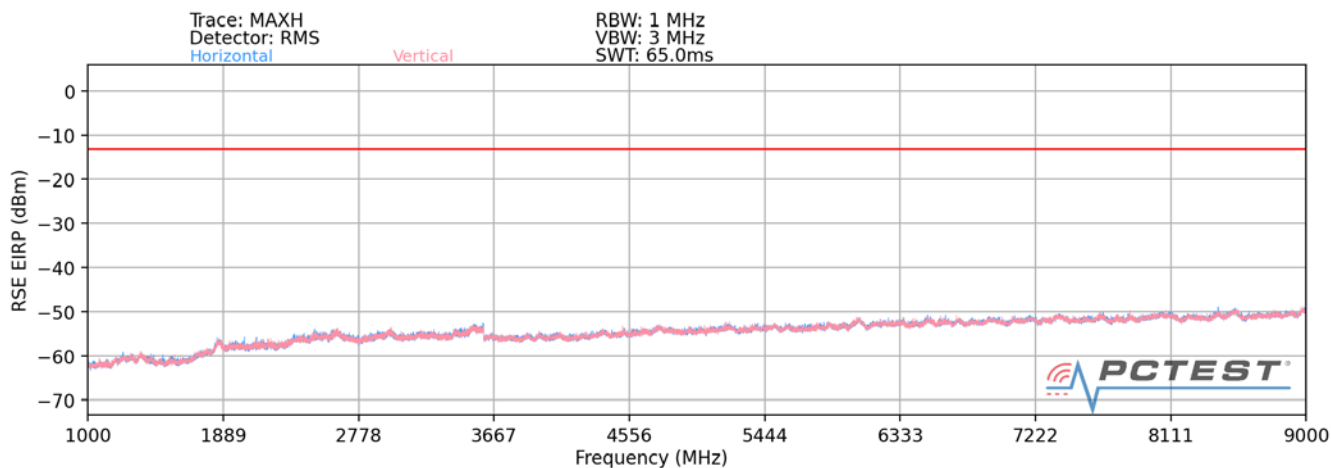
| | |
|-------------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 4233 |
| Frequency (MHz): | 846.6 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1693.2 | H | - | - | -71.10 | -1.82 | 34.08 | -61.17 | -13.00 | -48.17 |
| 2539.8 | H | - | - | -71.44 | 2.33 | 37.89 | -57.37 | -13.00 | -44.37 |
| 3386.4 | H | - | - | -72.14 | 2.32 | 37.18 | -58.07 | -13.00 | -45.07 |
| 4233.0 | H | - | - | -75.22 | 3.38 | 35.16 | -60.10 | -13.00 | -47.10 |

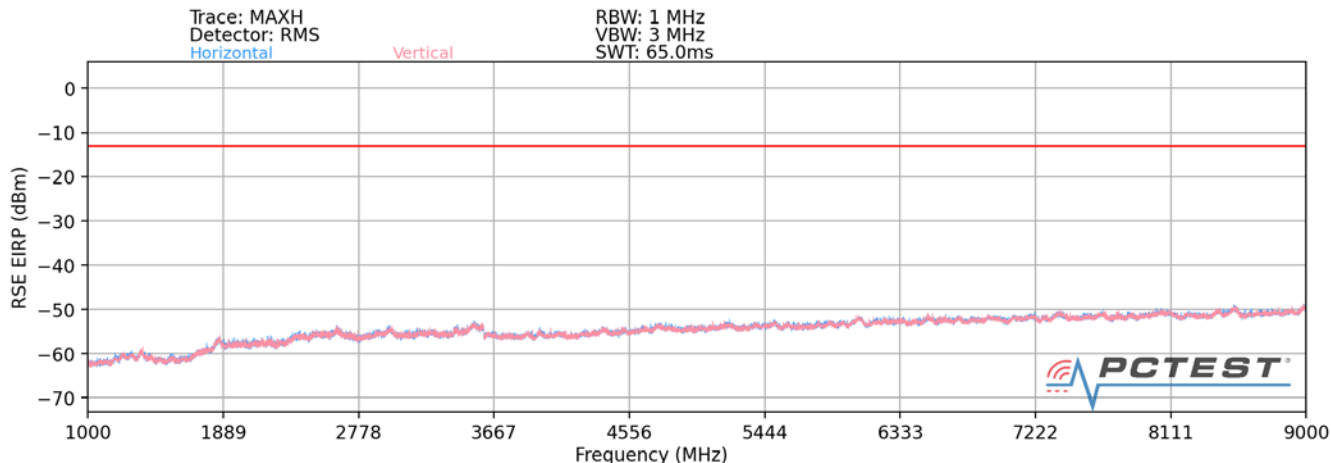
Table 7-21. Radiated Spurious Data (WCDMA Cell – High Channel) – CLOSED

| | | | | |
|--|---|--|---|--|
| FCC ID: A3LSMF926B |  <small>Proud to be part of element</small> | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 27 of 36 |

LTE Band 26/5 – AntA + AntB



Plot 7-5. Radiated Spurious Plot (LTE Band 26/5) – OPEN



Plot 7-6. Radiated Spurious Plot (LTE Band 26/5) - CLOSED

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 831.5 |
| RB / Offset: | 1 / 37 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1663.0 | H | - | - | -69.01 | -2.28 | 35.71 | -59.54 | -13.00 | -46.54 |
| 2494.5 | H | 114 | 209 | -64.77 | 2.52 | 44.75 | -50.50 | -13.00 | -37.50 |
| 3326.0 | H | - | - | -68.29 | 2.90 | 41.61 | -53.65 | -13.00 | -40.65 |
| 4157.5 | H | - | - | -76.44 | 4.54 | 35.10 | -60.15 | -13.00 | -47.15 |

Table 7-22. Radiated Spurious Data (LTE Band 26/5 – Low Channel) - OPEN

| | | | |
|---|--|---|--|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 28 of 36 |

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 836.5 |
| RB / Offset: | 1 / 37 |



| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0 | H | - | - | -69.83 | -2.25 | 34.92 | -60.34 | -13.00 | -47.34 |
| 2509.5 | H | 375 | 199 | -66.75 | 2.83 | 43.08 | -52.18 | -13.00 | -39.18 |
| 3346.0 | H | - | - | -68.96 | 3.25 | 41.29 | -53.97 | -13.00 | -40.97 |
| 4182.5 | H | - | - | -74.35 | 4.69 | 37.34 | -57.92 | -13.00 | -44.92 |

Table 7-23. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) - OPEN

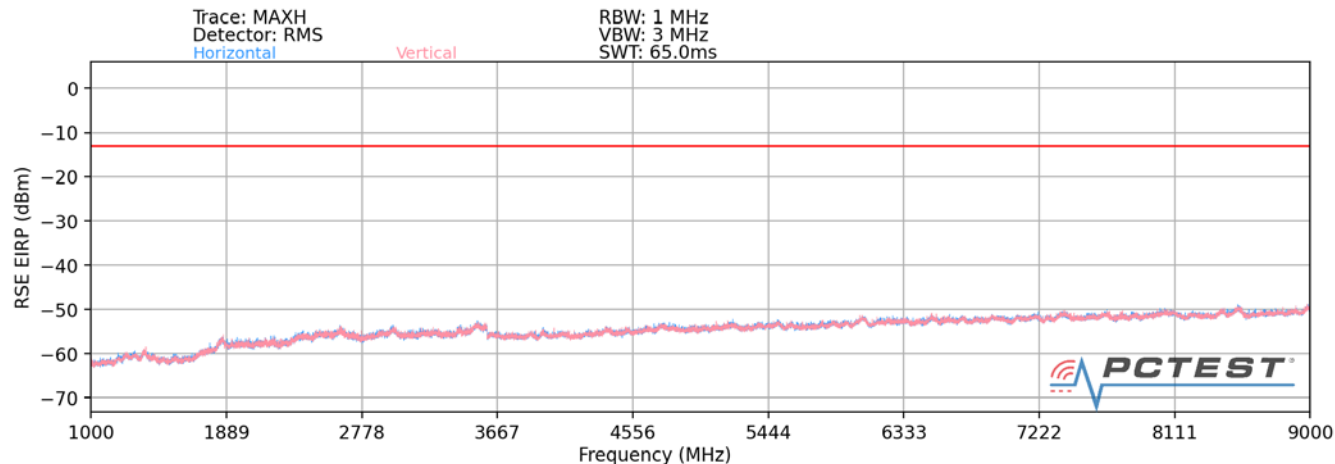
| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 841.5 |
| RB / Offset: | 1 / 37 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1683.00 | H | 354 | 297 | -69.42 | -2.16 | 35.42 | -59.84 | -13.00 | -46.84 |
| 2524.50 | H | 143 | 220 | -65.39 | 2.60 | 44.21 | -51.05 | -13.00 | -38.05 |
| 3366.00 | H | - | - | -68.17 | 3.57 | 42.40 | -52.85 | -13.00 | -39.85 |
| 4207.50 | H | - | - | -74.70 | 4.37 | 36.67 | -58.59 | -13.00 | -45.59 |

Table 7-24. Radiated Spurious Data (LTE Band 26/5 – High Channel) - OPEN

| | | | |
|---|---|---|-----------------------------------|
| FCC ID: A3LSMF926B |  MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 29 of 36 |

LTE Band 26/5 – AntA



Plot 7-7. Radiated Spurious Plot (LTE Band 26/5) - CLOSED

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 831.5 |
| RB / Offset: | 1 / 37 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1663.0 | H | 193 | 56 | -69.54 | -2.41 | 35.05 | -60.21 | -13.00 | -47.21 |
| 2494.5 | H | 124 | 143 | -68.11 | 2.13 | 41.02 | -54.24 | -13.00 | -41.24 |
| 3326.0 | H | - | - | -68.70 | 2.41 | 40.71 | -54.55 | -13.00 | -41.55 |
| 4157.5 | H | - | - | -74.52 | 3.28 | 35.76 | -59.50 | -13.00 | -46.50 |

Table 7-25. Radiated Spurious Data (LTE Band 26/5 – Low Channel) – CLOSED

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 836.5 |
| RB / Offset: | 1 / 37 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0 | H | - | - | -71.50 | -2.27 | 33.23 | -62.03 | -13.00 | -49.03 |
| 2509.5 | H | 181 | 204 | -70.58 | 2.22 | 38.64 | -56.62 | -13.00 | -43.62 |
| 3346.0 | H | - | - | -72.16 | 2.42 | 37.26 | -58.00 | -13.00 | -45.00 |
| 4182.5 | H | - | - | -76.65 | 3.46 | 33.81 | -61.44 | -13.00 | -48.44 |



Table 7-26. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) – CLOSED

| | | | | |
|---|--|--|----------------|-----------------------------------|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | SAMSUNG | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 30 of 36 |

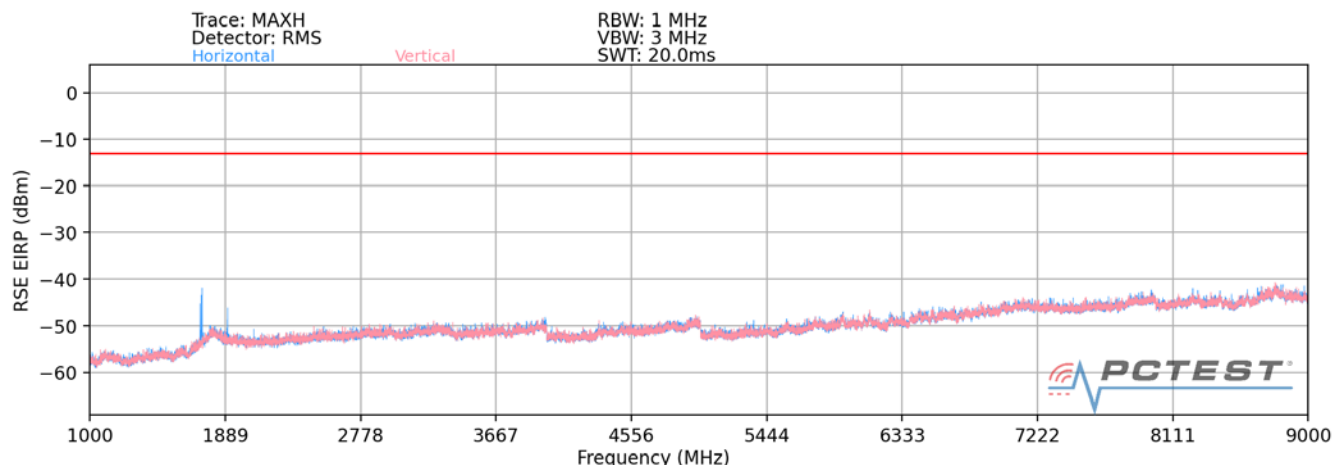
| | |
|-------------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 841.5 |
| RB / Offset: | 1 / 37 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1683.00 | H | - | - | -70.34 | -2.06 | 34.60 | -60.65 | -13.00 | -47.65 |
| 2524.50 | H | 114 | 296 | -66.45 | 2.22 | 42.77 | -52.49 | -13.00 | -39.49 |
| 3366.00 | H | - | - | -68.23 | 2.32 | 41.09 | -54.17 | -13.00 | -41.17 |
| 4207.50 | H | - | - | -74.15 | 3.23 | 36.08 | -59.17 | -13.00 | -46.17 |

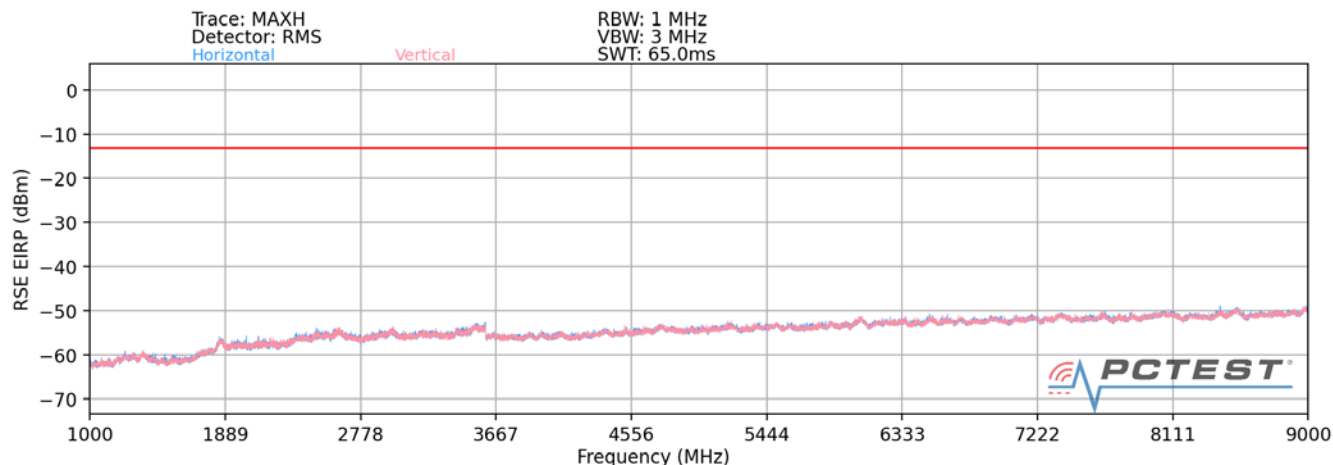
Table 7-27. Radiated Spurious Data (LTE Band 26/5 – High Channel) - CLOSED

| | | | | |
|--|---|--|---|--|
| FCC ID: A3LSMF926B |  <small>Proud to be part of element</small> | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 31 of 36 |

NR Band n5 – AntA + AntB



Plot 7-8. Radiated Spurious Plot (NR Band n5) – OPEN



Plot 7-9. Radiated Spurious Plot (NR Band n5) - CLOSED

| | |
|------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 834.0 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1668.0 | H | 222 | 154 | -72.00 | 0.41 | 35.41 | -59.85 | -13.00 | -46.85 |
| 2502.0 | H | 100 | 260 | -67.89 | 4.28 | 43.39 | -51.87 | -13.00 | -38.87 |
| 3336.0 | H | - | - | -68.69 | 5.76 | 44.07 | -51.19 | -13.00 | -38.19 |
| 4170.0 | H | - | - | -72.00 | 6.62 | 41.62 | -53.64 | -13.00 | -40.64 |

Table 7-28. Radiated Spurious Data (NR Band n5 – Low Channel) – OPEN

| | | | |
|---|--|---|--|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 32 of 36 |

| | |
|------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 836.5 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |



| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0 | H | - | - | -67.24 | 0.62 | 40.38 | -54.88 | -13.00 | -41.88 |
| 2509.5 | H | - | - | -69.23 | 4.25 | 42.02 | -53.24 | -13.00 | -40.24 |
| 3346.0 | H | - | - | -70.11 | 5.76 | 42.65 | -52.61 | -13.00 | -39.61 |

Table 7-29. Radiated Spurious Data (NR Band n5 – Mid Channel) – OPEN

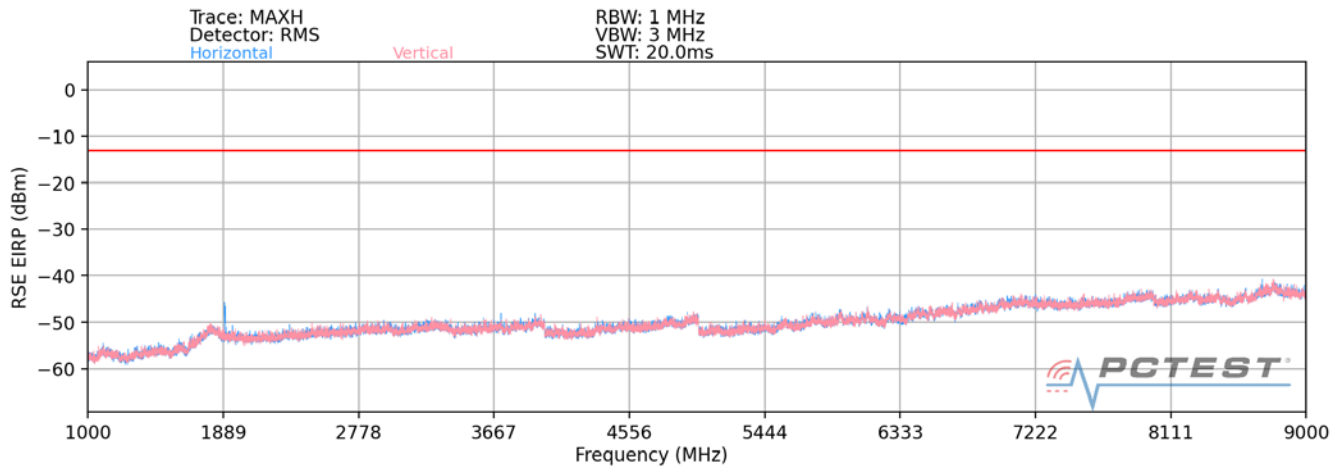
| | |
|------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 839.0 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1678.0 | H | - | - | -68.01 | 0.84 | 39.83 | -55.43 | -13.00 | -42.43 |
| 2517.0 | H | - | - | -69.22 | 4.44 | 42.22 | -53.04 | -13.00 | -40.04 |
| 3356.0 | H | - | - | -71.24 | 5.67 | 41.43 | -53.83 | -13.00 | -40.83 |

Table 7-30. Radiated Spurious Data (NR Band n5 – High Channel) – OPEN

| | | | |
|---|---|---|-----------------------------------|
| FCC ID: A3LSMF926B |  MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 33 of 36 |

NR Band n5 – AntA



Plot 7-10. Radiated Spurious Plot (NR Band n5) - CLOSED

| | |
|------------------|------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 834.0 |
| RB / Offset: | 1 / 50 |
| Mode: | Standalone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1668.0 | H | - | - | -67.81 | 0.41 | 39.60 | -55.66 | -13.00 | -42.66 |
| 2502.0 | H | - | - | -69.22 | 4.28 | 42.06 | -53.20 | -13.00 | -40.20 |
| 3336.0 | H | - | - | -70.14 | 5.76 | 42.62 | -52.64 | -13.00 | -39.64 |

Table 7-31. Radiated Spurious Data (NR Band n5 – Low Channel)

| | |
|------------------|------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 836.5 |
| RB / Offset: | 1 / 50 |
| Mode: | Standalone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0 | H | - | - | -68.43 | 0.62 | 39.19 | -56.07 | -13.00 | -43.07 |
| 2509.5 | H | - | - | -69.99 | 4.25 | 41.26 | -54.00 | -13.00 | -41.00 |
| 3346.0 | H | - | - | -70.17 | 5.76 | 42.59 | -52.67 | -13.00 | -39.67 |



Table 7-32. Radiated Spurious Data (NR Band n5 – Mid Channel)

| | | | |
|---|--|---|--|
| FCC ID: A3LSMF926B | PCTEST Proud to be part of element | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | Page 34 of 36 |

| | |
|-------------------------|------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 839.0 |
| RB / Offset: | 1 / 50 |
| Mode: | Standalone |



| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1678.0 | H | - | - | -67.01 | 0.84 | 40.83 | -54.43 | -13.00 | -41.43 |
| 2517.0 | H | - | - | -68.49 | 4.44 | 42.95 | -52.31 | -13.00 | -39.31 |
| 3356.0 | H | - | - | -72.01 | 5.67 | 40.66 | -54.60 | -13.00 | -41.60 |

Table 7-33. Radiated Spurious Data (NR Band n5 – High Channel)

| | | | | |
|--|---|--|---|--|
| FCC ID: A3LSMF926B |  <small>Proud to be part of element</small> | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 35 of 36 |

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Samsung **Portable Handset** **FCC ID: A3LSMF926B** complies with all the requirements of Part 22 of the FCC rules.

| | | | | |
|--|---|--|---|--|
| FCC ID: A3LSMF926B |  <small>Proud to be part of element</small> | MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) |  | Approved by: Technical Manager |
| Test Report S/N: 1M2106280075-02.A3L | Test Dates: 7/12 – 07/20/2021 | EUT Type: Portable Handset | | Page 36 of 36 |