

PART 22 & 90 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

11/03/2025 – 11/28/2025

Test Report Issue Date:

1/15/2025

Test Site/Location:

Element Lab., Yongin-Si, Gyeonggi-do, South Korea

Test Report Serial No.:

1M2510280091-10-R1.A3L

FCC ID:

A3LSMA576B

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-A576B/DS

Additional Model(s):

SM-A576B

EUT Type:

Portable Handset

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

§22(H), §90(S), §90(R)

Test Procedure(s):

ANSI C63.26-2015

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.

This revised Test Report (S/N: 1M2510280091-10-R1.A3L) supersedes and replaces the previously issued test report (S/N: 1M2510280091-10.A3L) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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.


Prepared by
Reviewed by

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Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 1 of 62

TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	1/14/2025	WKR0002421
1	Addressed comments made by TCB reviewer	1/15/2026	WKR0000005883

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Antenna-1							
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	Max. Power [W]	Max. Power [dBm]	Emission Designator
LTE Band 26	15 MHz	QPSK	821.5	ERP	0.101	20.03	13M5G7D
		16QAM	821.5	ERP	0.077	18.89	13M6W7D
	15 MHz	QPSK	821.5	Conducted	0.289	24.61	13M5G7D
		16QAM	821.5	Conducted	0.237	23.74	13M6W7D
	10 MHz	QPSK	819.0	Conducted	0.290	24.63	9M06G7D
		16QAM	819.0	Conducted	0.238	23.77	9M07W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.284	24.54	4M56G7D
		16QAM	816.5 - 821.5	Conducted	0.236	23.73	4M55W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.294	24.68	2M74G7D
		16QAM	815.5 - 822.5	Conducted	0.230	23.62	2M73W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.287	24.57	1M11G7D
		16QAM	814.7 - 823.3	Conducted	0.241	23.81	1M10W7D

Antenna-2							
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	Max. Power [W]	Max. Power [dBm]	Emission Designator
LTE Band 26	15 MHz	QPSK	821.5	ERP	0.129	21.10	13M5G7D
		16QAM	821.5	ERP	0.106	20.24	13M6W7D
	15 MHz	QPSK	821.5	Conducted	0.241	23.82	13M5G7D
		16QAM	821.5	Conducted	0.204	23.10	13M6W7D
	10 MHz	QPSK	819.0	Conducted	0.243	23.86	9M11G7D
		16QAM	819.0	Conducted	0.203	23.07	9M07W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.240	23.80	4M61G7D
		16QAM	816.5 - 821.5	Conducted	0.202	23.06	4M55W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.244	23.88	2M74G7D
		16QAM	815.5 - 822.5	Conducted	0.193	22.87	2M74W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.238	23.77	1M12G7D
		16QAM	814.7 - 823.3	Conducted	0.200	23.02	1M10W7D

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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 Element Test Location

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4:2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology Suwon, Ltd. located in Yongin-si, Gyeonggi-do, 16954, South Korea.

- Element Materials Technology Suwon, Ltd. is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation(A2LA) with Certificate number 2041.04 for Specific Absorption Rate (SAR), and Electromagnetic Compatibility (EMC) & Telecommunications testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Materials Technology Suwon, Ltd. facility is accredited, designated, and recognized in accordance with the provision of Radio Wave Act and International Standard ISO/IEC 17025:2017 under the National Radio Research Agency.
 - Designation Number / CABID: KR0169
 - Test Firm Registration Number of FCC: 417945
 - Test Firm Registration Number of ISED: 26168

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMA576B**. 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 90 and 22H.

The authorization for this device utilize data referencing from FCC ID: A3LSMA576U as permitted per KDB 484596 D01 v03. Data referencing data test results are included in Appendix A of this report.

Test Device Serial No.: 0119M, 3123M, 3070M, 2298M, 0551M

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 (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, SCS

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26:2015. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

Band	Ant1	Ant2
LTE Band 26	Ant A	Ant E

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version A576U1UEU0AYK8 installed on the EUT.

2.5 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 “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26:2015) 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 C63.26:2015. For emissions below 1GHz, 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, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26:2015. 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 414788 D01 v01r01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26:2015.

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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	1.95
Radiated Disturbance (<1GHz)	4.10
Radiated Disturbance (>1GHz)	4.82
Radiated Disturbance (>18GHz)	4.96

Table 4-1. Measurement Uncertainty Budget

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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
Agilent	N9030A	PXA Signal Analyzer	2025-05-23	Annual	2026-05-22	MY49432391
Anritsu	S820E	Cable and Antenna Analyzer	2025-06-13	Annual	2026-06-12	1839097
Rohde & Schwarz	NRP-Z81	POWER SENSOR	2025-05-23	Annual	2026-05-22	101499
Anritsu	MT8000A	Radio Communicatino Test Station	2025-10-17	Annual	2026-10-16	6272337405
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	2024-10-10	Biennial	2026-10-09	10160045
Espec	SH-242	Environmental Chamber	2025-09-17	Annual	2026-09-16	93011064
Fairview Microwave	FM2CP1122-10	2.92mm Directional Coupler	2025-07-17	Annual	2026-07-16	1946
Keysight Technologies	N9030B	PXA Signal Analyzer	2025-07-07	Annual	2026-07-06	MY57143278
Mini-Circuits	BW-N10W5+	Attenuator	2025-07-03	Annual	2026-07-02	TEMPNO.01-151
Mini-Circuits	BW-N10W5+	Attenuator	2025-07-17	Annual	2026-07-16	TEMPNO.01-150
NARDA	180-442A-KF	Horn Antenna (small)	2025-01-13	Annual	2026-01-12	180-442A-KF
Rohde & Schwarz	SMF100A	Signal Generator	2025-07-03	Annual	2026-07-02	104154
Rohde & Schwarz	CMW500	Wideband Radio Communicatino Tester	2025-01-06	Annual	2026-01-05	171075
Rohde & Schwarz	FSW	Signal and Spectrum Analyzer	2025-09-15	Annual	2026-09-14	101955
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	2025-01-06	Annual	2026-01-05	103295
Schwarzbeck	VULB9162	Broadband TRILOG Antenna	2025-06-05	Biennial	2027-06-04	9162-217
Sunol	DRH-118	Horn Antenna	2025-06-04	Annual	2026-06-03	A102416-1

Table 5-1. Test Equipment Calibration Table

Notes:

1. 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.
2. 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 EMISSION DESIGNATORS

Emission Designator

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

Spurious Radiated Emission – LTE Band

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average 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 1564 MHz. So 6.1 dB is added to the signal generator reading of –30.9 dBm yielding –24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 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: A3LSMA576B
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference	Data Reference
CONDUCTED	Transmitter Conducted Output Power*	2.1046(a), 90.635(b)	< 100 Watts	PASS	Section 7.2	Yes
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3	Yes
	Conducted Band Edge / Spurious Emissions (LTE Band 26)	2.1051, 90.691(a)	> 43 + 10 log ₁₀ (P[Watts]) for all out-of-band emissions except emissions beyond 37.5kHz from the block edge > 50 + 10 log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Sections 7.4, 7.5	Yes
	Frequency Stability	2.1055, 90.213	< 2.5 ppm **Fundamental emissions stay within authorized frequency block	PASS	Section 7.8	Yes
RADIATED	Effective Radiated Power (LTE Band 26)	22.913(a)(2)	< 7 Watts max. ERP	PASS	Section 7.6	Yes
	Radiated Spurious Emissions (LTE Band 26)	2.1053, 90.691(a)	> 43 + 10 log ₁₀ (P[Watts]) for all out-of-band emissions except emissions beyond 37.5kHz from the block edge > 50 + 10 log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Section 7.7	No

* The only transmitter output conducted powers included in this report are those where the Pmax value, per the tune-up document, is higher than any of the DSI power levels. For the remaining conducted power measurements, see the **RF Exposure Report**.

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 shown in Section 7.0 were 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) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.0.
- 5) Data was referenced from model SM-A576U1 for the certification of SM-A576B/DS. See Section 9.0 for spotcheck results

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7.2 Conducted Output Power Data

Test Overview

All emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates 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.

Test Procedure Used

ANSI C63.26:2015 – Section 5.2

Test Settings

1. Span = 2 x OBW to 3 x OBW
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

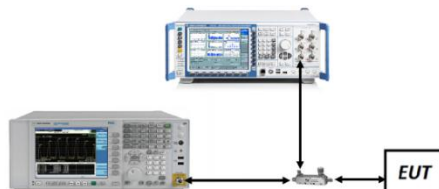


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
2. Conducted power measurements were evaluated 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.
3. All other conducted power measurements are contained in the RF exposure report for this filing.
4. Conducted power was found to reduce for the higher order QAM modulations when compared to 16QAM. Due to this trend, only the worst-case QAM (16QAM) powers are included in this section.

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
15 MHz	QPSK	26765	821.5	1 / 74	24.61	0.289	50.00	-25.39
	16-QAM	26765	821.5	1 / 74	23.74	0.237	50.00	-26.26
10 MHz	QPSK	26740	819.0	1 / 49	24.63	0.290	50.00	-25.37
	16-QAM	26740	819.0	1 / 49	23.77	0.238	50.00	-26.23
5 MHz	QPSK	26715	816.5	1 / 24	24.53	0.284	50.00	-25.47
		26765	821.5	1 / 24	24.54	0.284	50.00	-25.46
	16-QAM	26715	816.5	1 / 24	23.73	0.236	50.00	-26.27
		26765	821.5	1 / 24	23.62	0.230	50.00	-26.38
3 MHz	QPSK	26705	815.5	1 / 7	24.49	0.281	50.00	-25.51
		26775	822.5	1 / 7	24.68	0.294	50.00	-25.32
	16-QAM	26705	815.5	1 / 7	23.62	0.230	50.00	-26.38
		26775	822.5	1 / 7	23.57	0.227	50.00	-26.43
1.4 MHz	QPSK	26697	814.7	1 / 3	24.57	0.287	50.00	-25.43
		26783	823.3	1 / 5	24.49	0.281	50.00	-25.51
	16-QAM	26697	814.7	1 / 3	23.81	0.241	50.00	-26.19
		26783	823.3	1 / 5	23.69	0.234	50.00	-26.31

Table 7-2. LTE Band 26 Conducted Powers – Ant 1

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
15 MHz	QPSK	26765	821.5	1 / 74	23.82	0.241	50.00	-26.18
	16-QAM	26765	821.5	1 / 74	23.10	0.204	50.00	-26.90
10 MHz	QPSK	26740	819.0	1 / 25	23.86	0.243	50.00	-26.14
	16-QAM	26740	819.0	1 / 25	23.07	0.203	50.00	-26.93
5 MHz	QPSK	26715	816.5	1 / 0	23.80	0.240	50.00	-26.20
		26765	821.5	1 / 24	23.76	0.238	50.00	-26.24
	16-QAM	26715	816.5	1 / 0	23.04	0.202	50.00	-26.96
		26765	821.5	1 / 24	23.06	0.202	50.00	-26.94
3 MHz	QPSK	26705	815.5	1 / 14	23.71	0.235	50.00	-26.29
		26775	822.5	1 / 7	23.88	0.244	50.00	-26.12
	16-QAM	26705	815.5	1 / 14	22.87	0.193	50.00	-27.13
		26775	822.5	1 / 7	22.63	0.183	50.00	-27.37
1.4 MHz	QPSK	26697	814.7	1 / 3	23.77	0.238	50.00	-26.23
		26783	823.3	1 / 3	23.73	0.236	50.00	-26.27
	16-QAM	26697	814.7	1 / 3	23.02	0.200	50.00	-26.98
		26783	823.3	1 / 3	22.82	0.192	50.00	-27.18

Table 7-3. LTE Band 26 Conducted Powers – Ant 2

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 14 of 62

7.3 Occupied Bandwidth

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26:2015 – Section 5.4.4

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

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

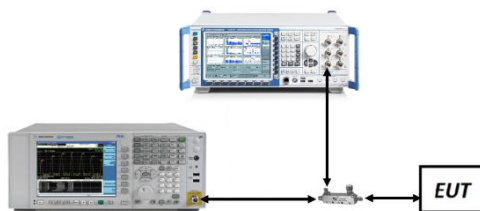


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

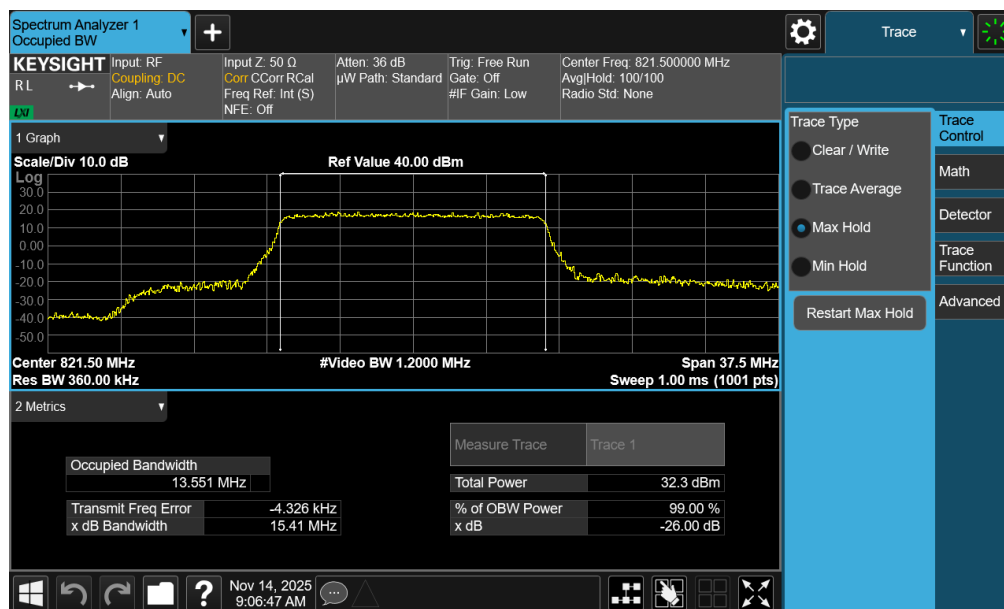
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 15 of 62

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B26	15 MHz	QPSK	13.52
		16QAM	13.55
	10 MHz	QPSK	9.06
		16QAM	9.07
	5 MHz	QPSK	4.56
		QPSK	4.56
		16QAM	4.54
		16QAM	4.55
	3 MHz	QPSK	2.74
		QPSK	2.73
		16QAM	2.73
		16QAM	2.73
	1.4 MHz	QPSK	1.11
		QPSK	1.11
		16QAM	1.10
		16QAM	1.10

Table 7-4. Occupied Bandwidth Results – Ant 1

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 16 of 62

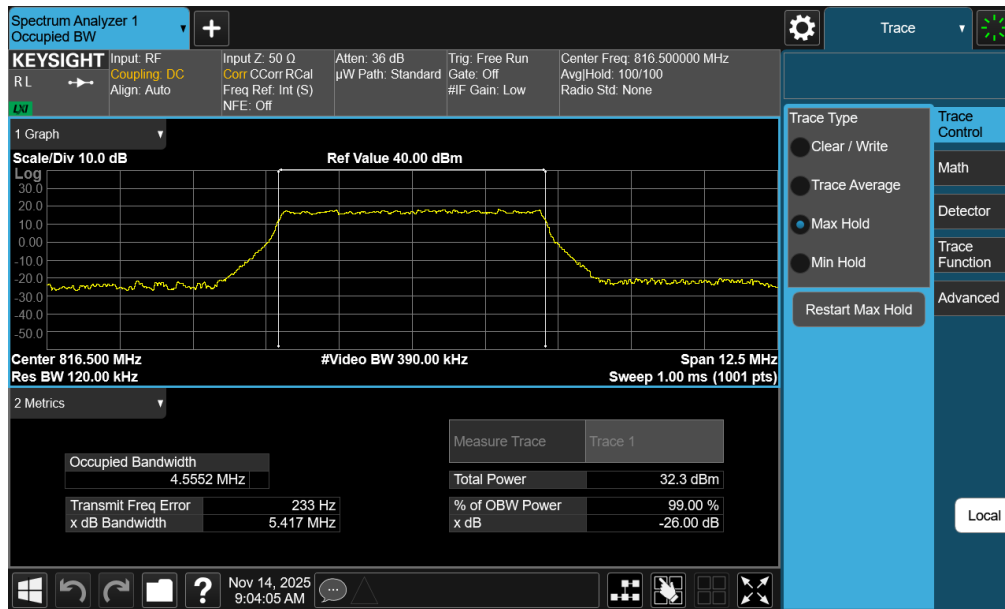
LTE Band 26 – Ant 1



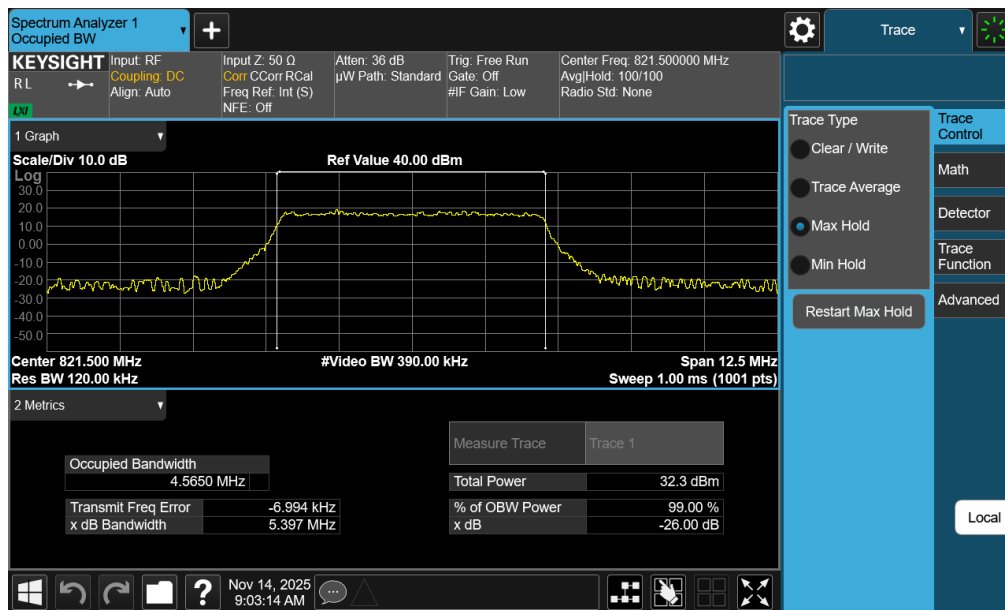
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 17 of 62



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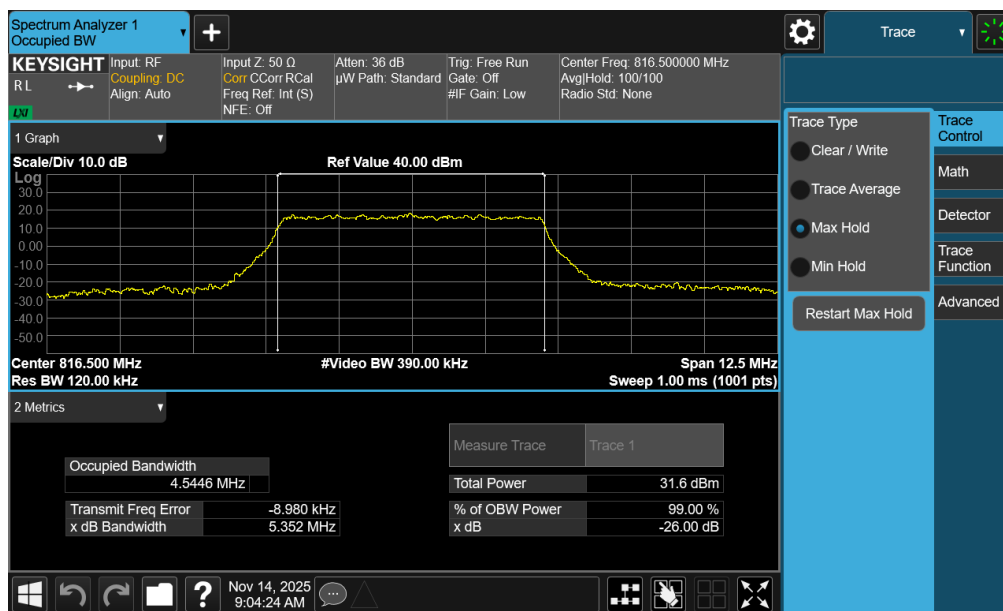


Plot 7-9. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel - Full RB)

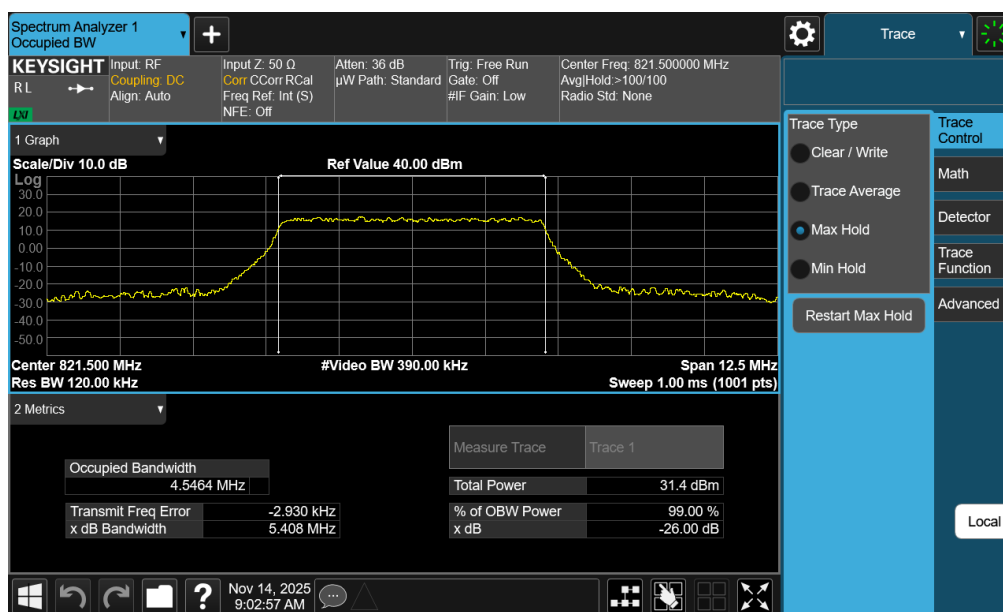


Plot 7-10. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK High Channel - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 19 of 62

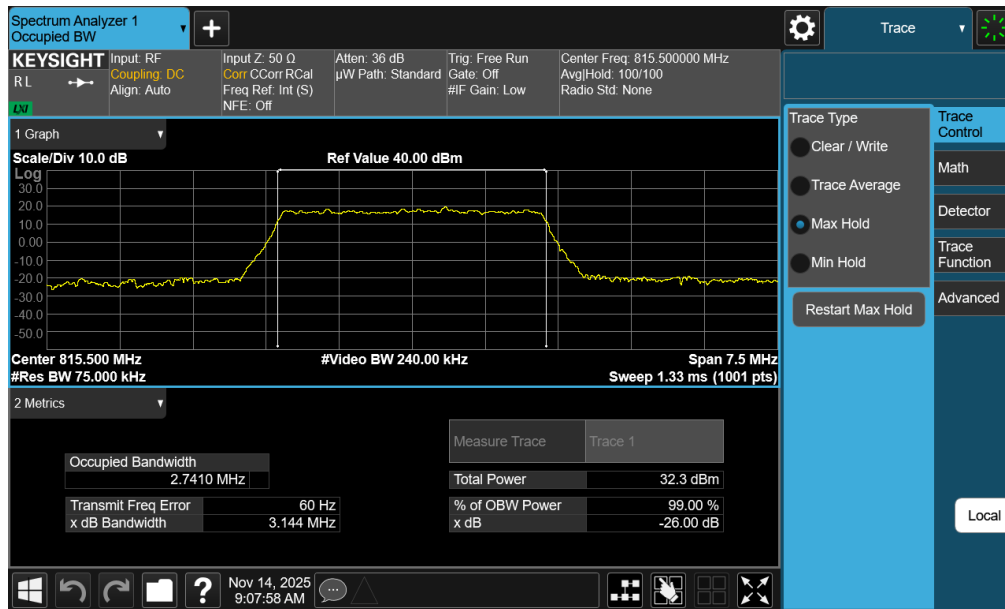


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM Low Channel - Full RB)

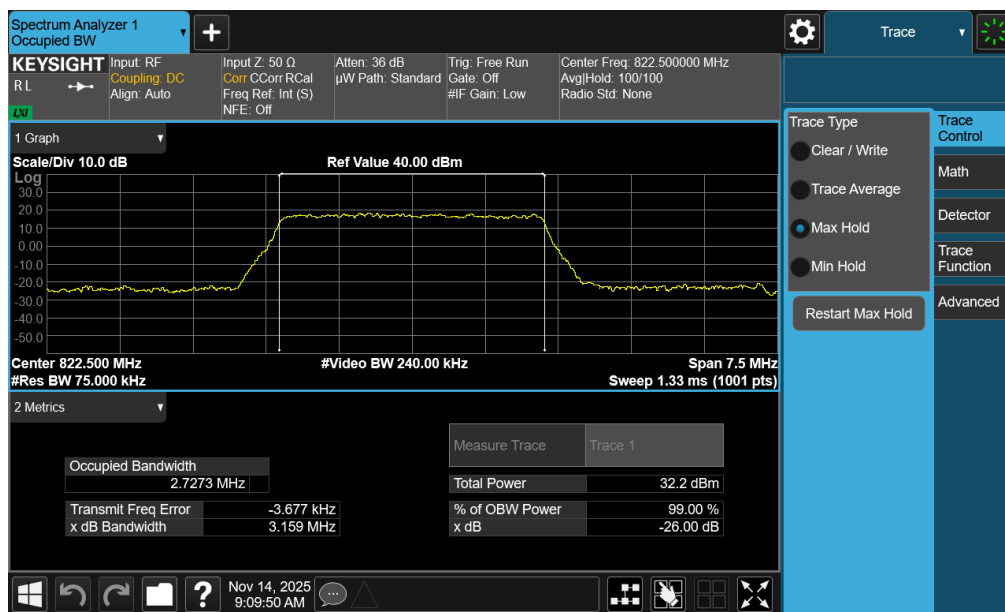


Plot 7-12. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 20 of 62

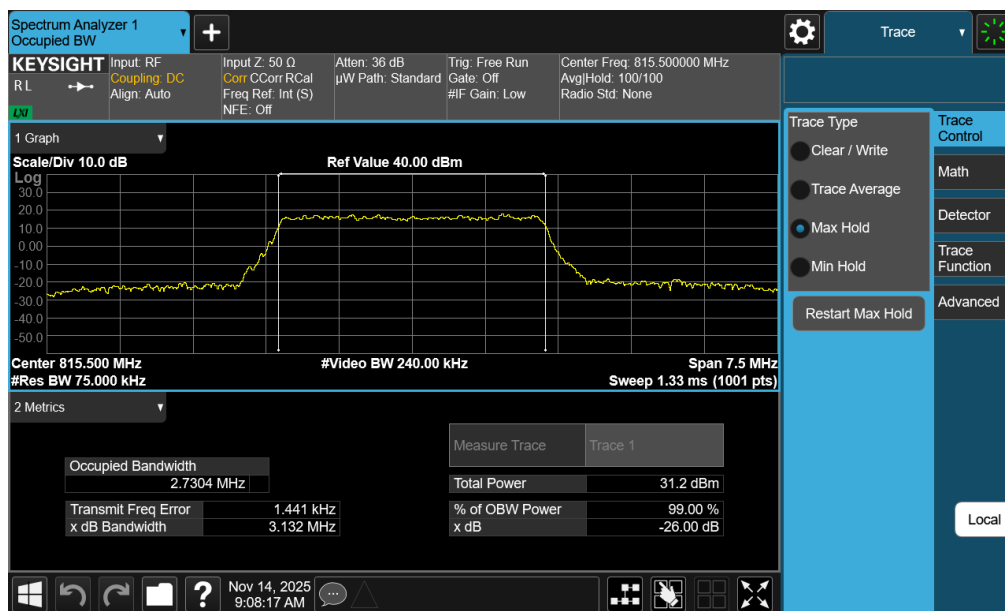


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel - Full RB)

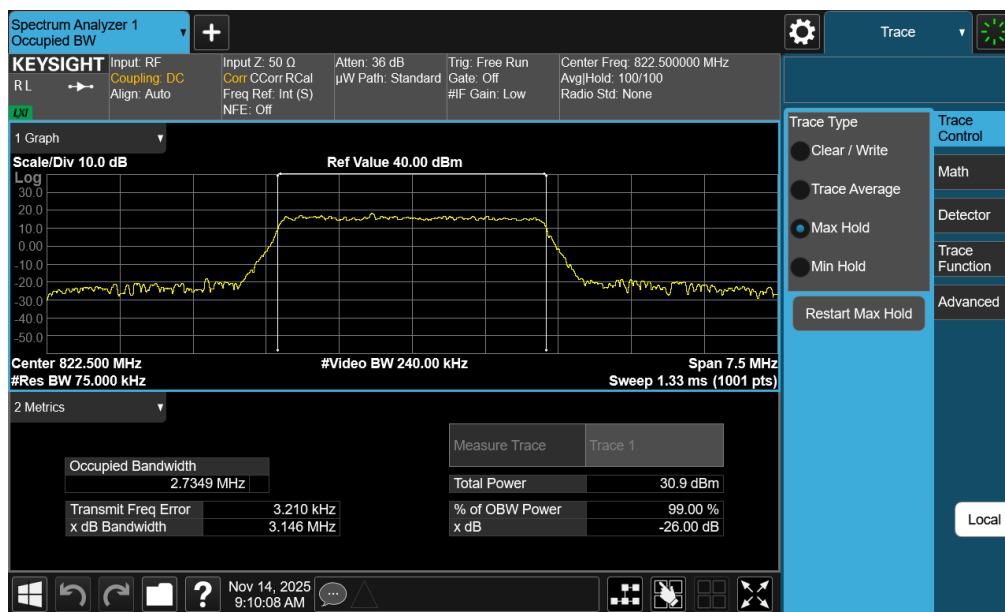


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 21 of 62

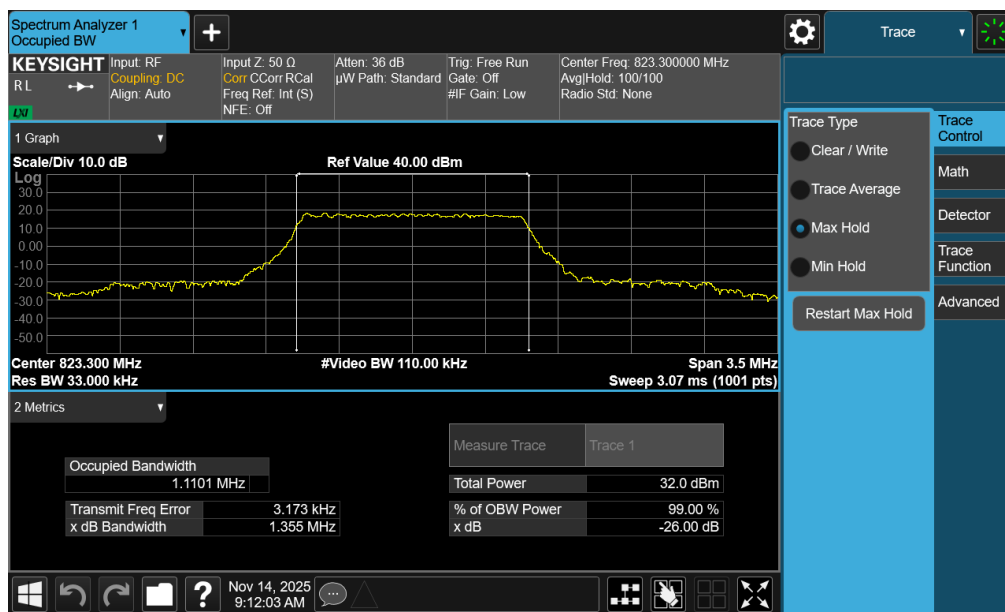
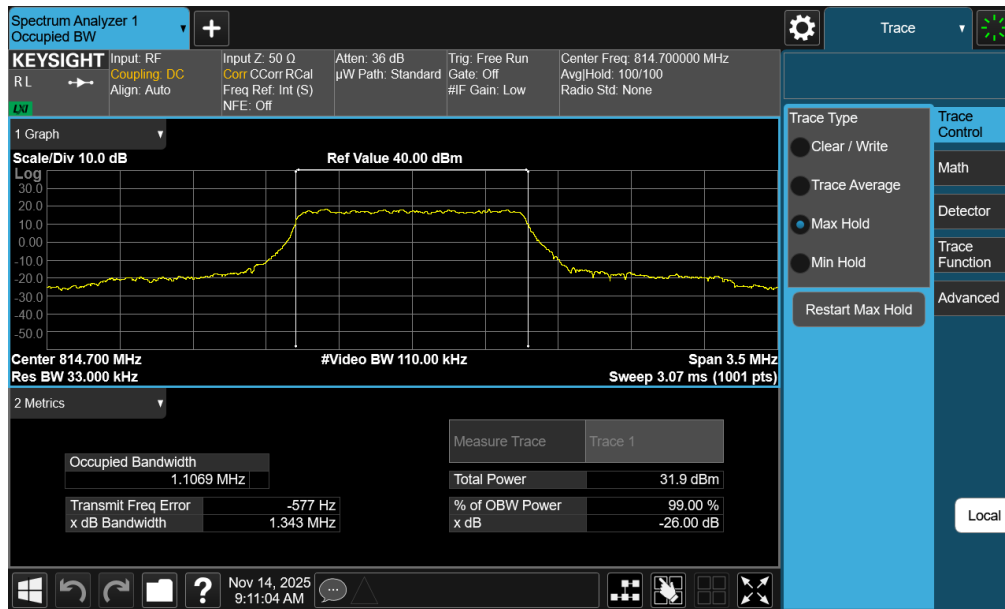


Plot 7-12. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)

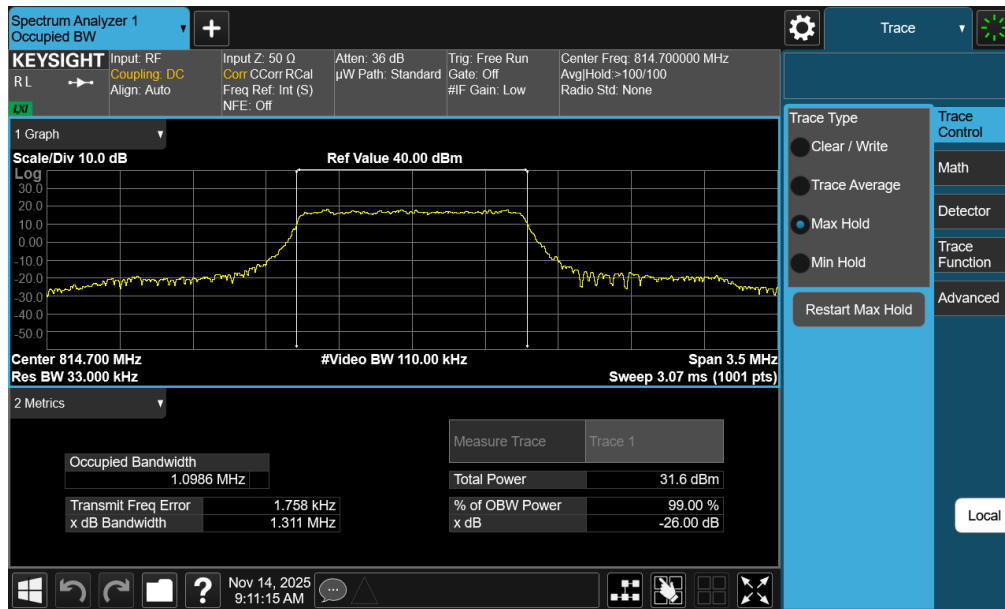


Plot 7-12. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM High Channel - Full RB)

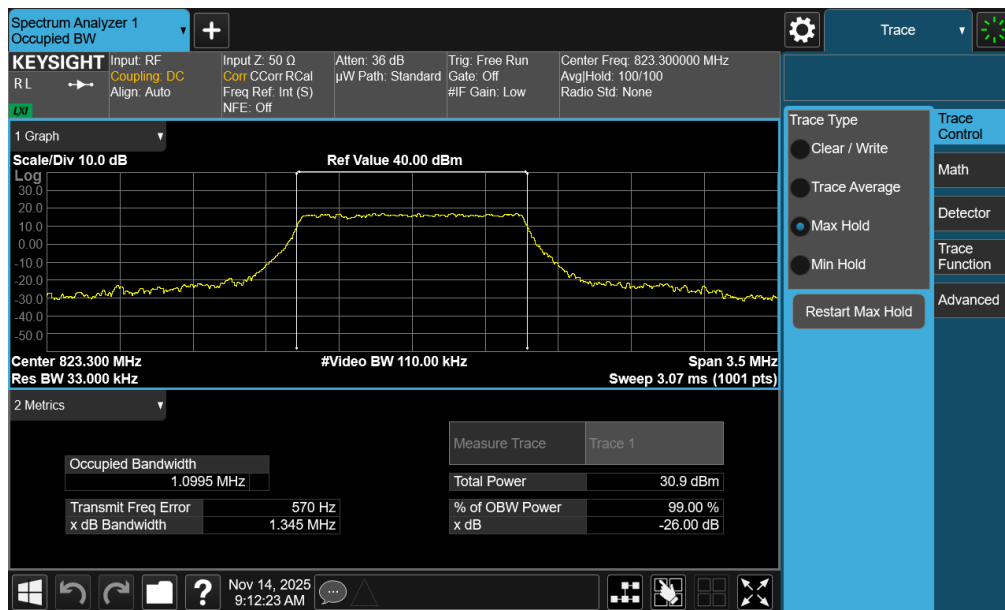
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 22 of 62



FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 23 of 62



Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

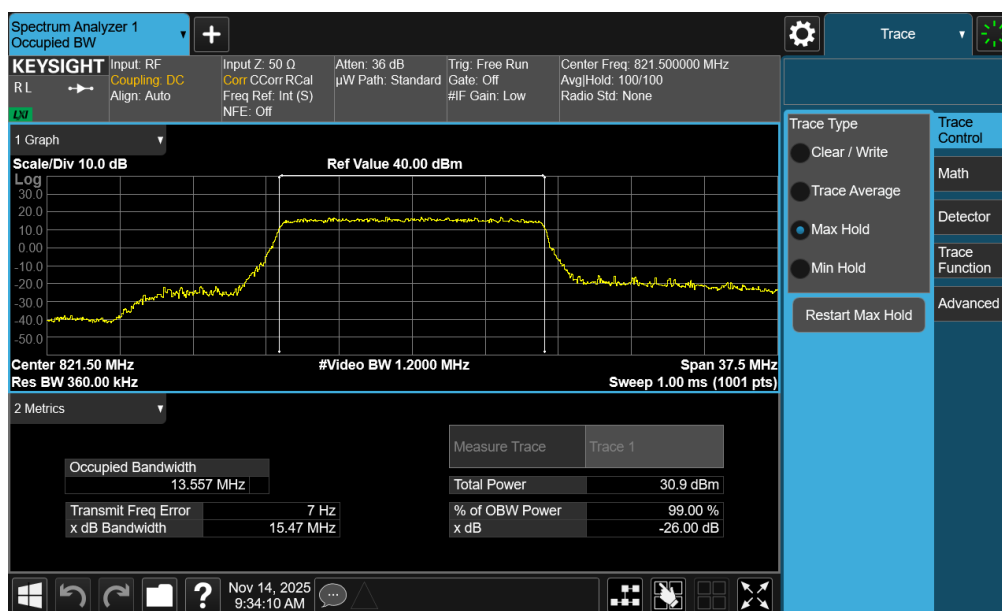
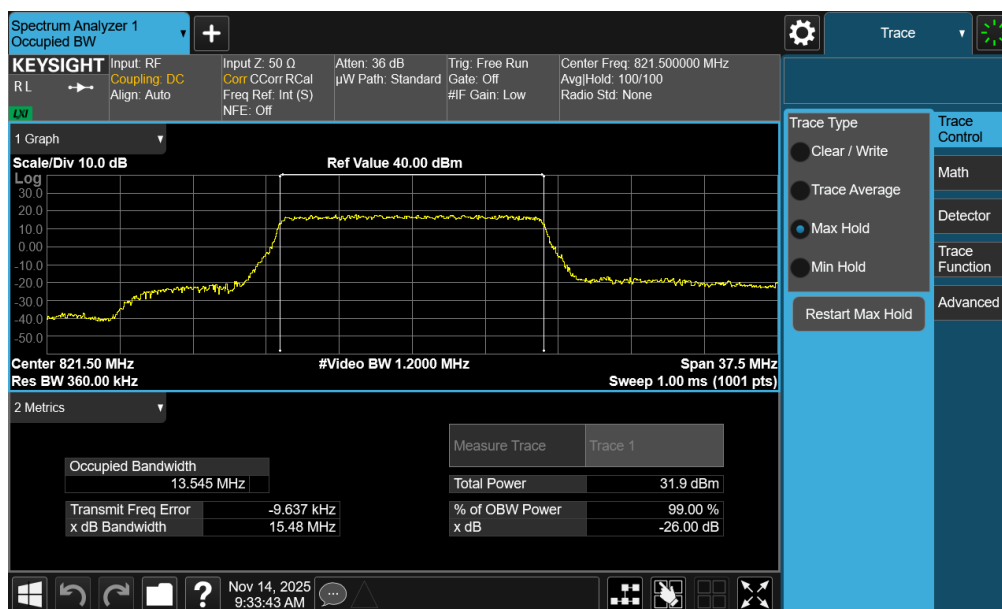
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 24 of 62

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B26	15 MHz	QPSK	13.54
		16QAM	13.56
	10 MHz	QPSK	9.11
		16QAM	9.07
	5 MHz	QPSK	4.61
		QPSK	4.55
		16QAM	4.55
		16QAM	4.55
	3 MHz	QPSK	2.73
		QPSK	2.74
		16QAM	2.74
		16QAM	2.73
	1.4 MHz	QPSK	1.12
		QPSK	1.10
		16QAM	1.10
		16QAM	1.10

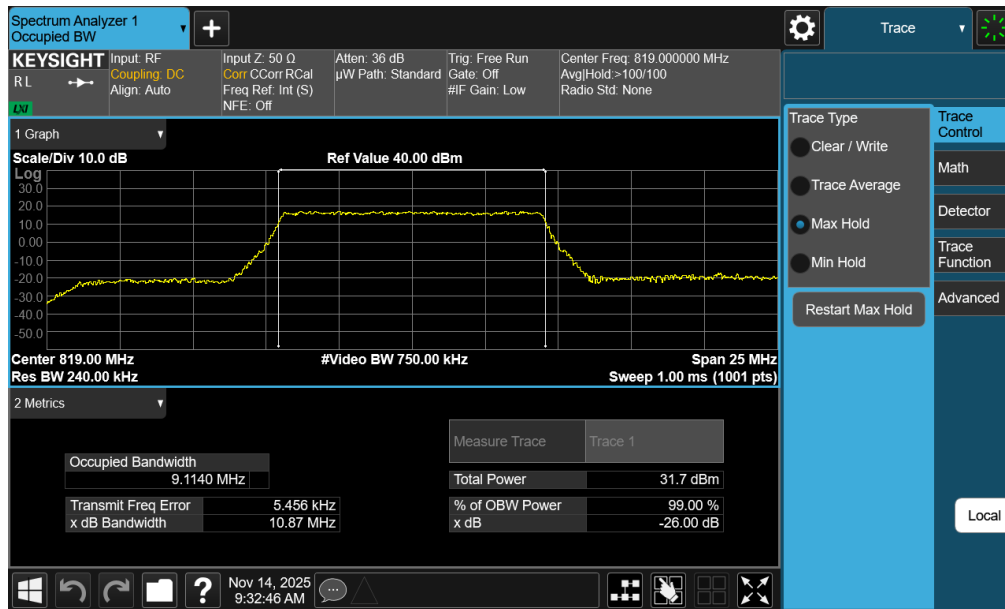
Table 7-5. Occupied Bandwidth Results – Ant 2

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 25 of 62

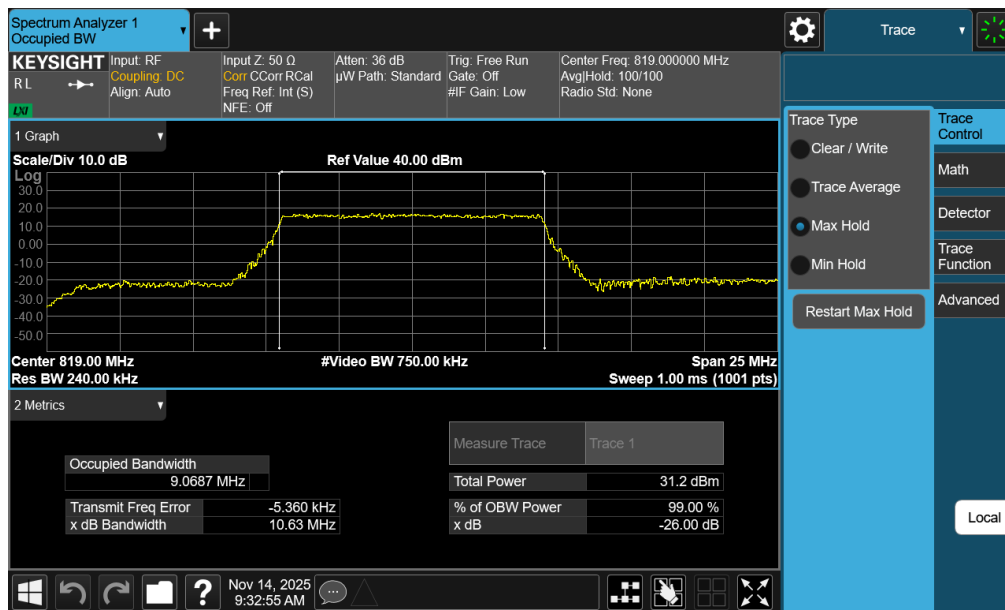
LTE Band 26 – Ant 2



FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 26 of 62

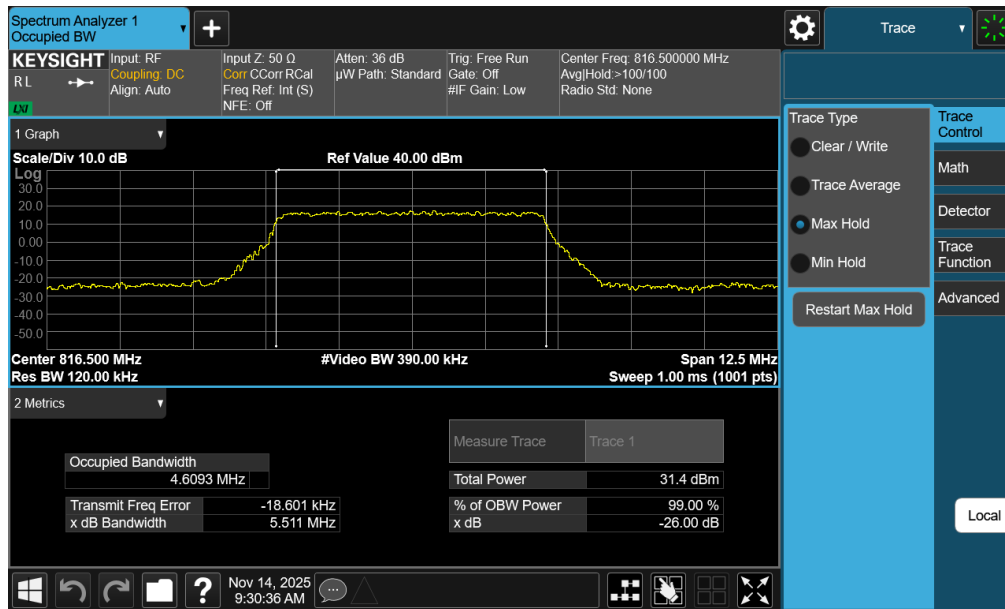


Plot 7-7. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)

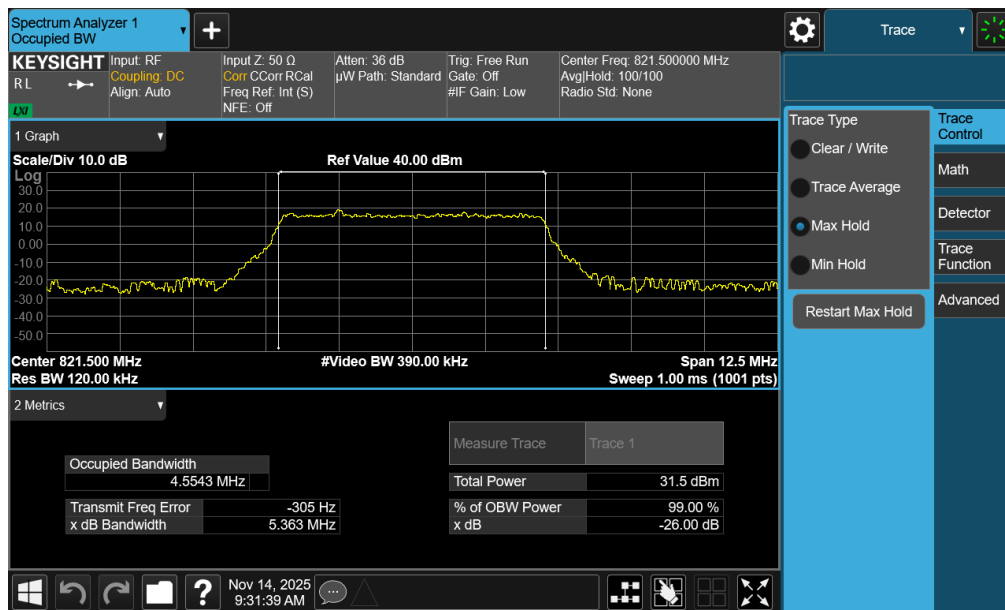


Plot 7-8. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 27 of 62

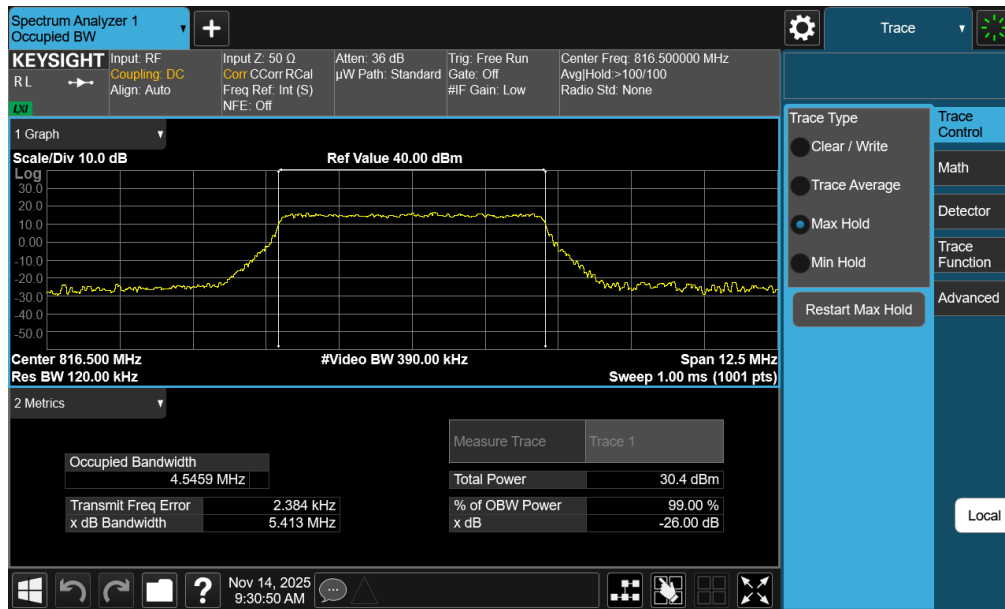


Plot 7-9. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel - Full RB)

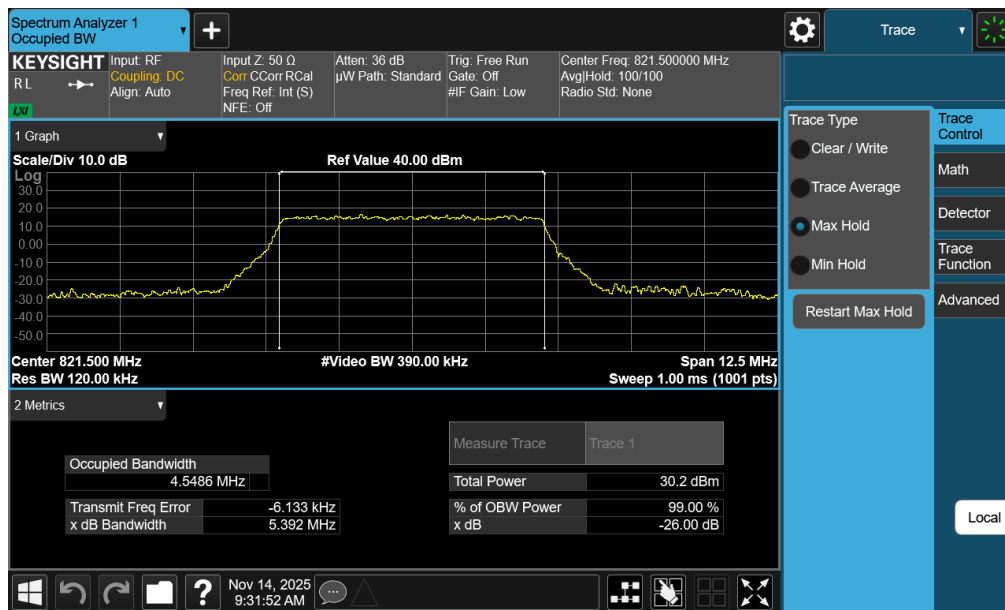


Plot 7-10. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK High Channel - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 28 of 62

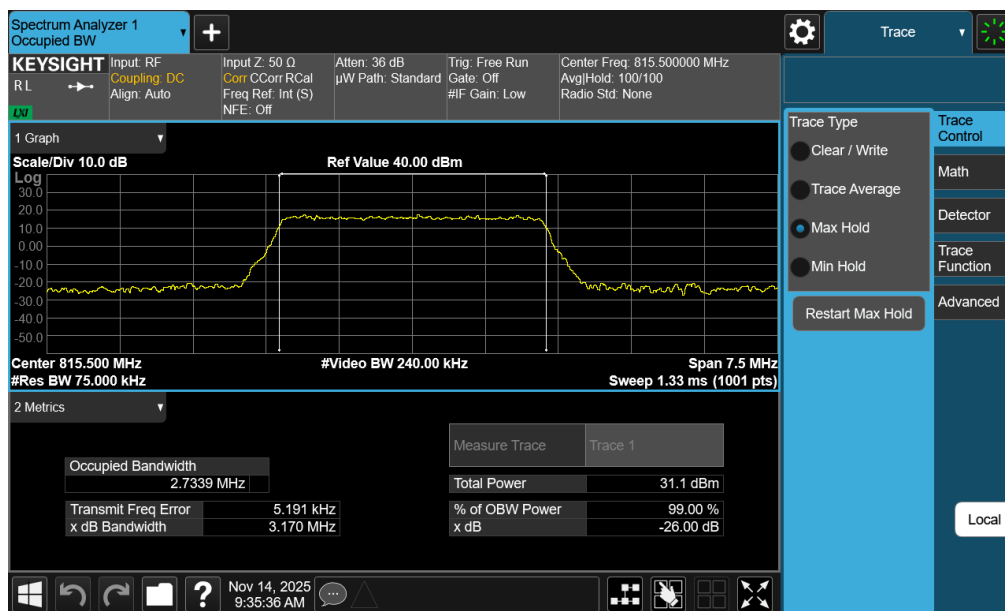


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM Low Channel - Full RB)

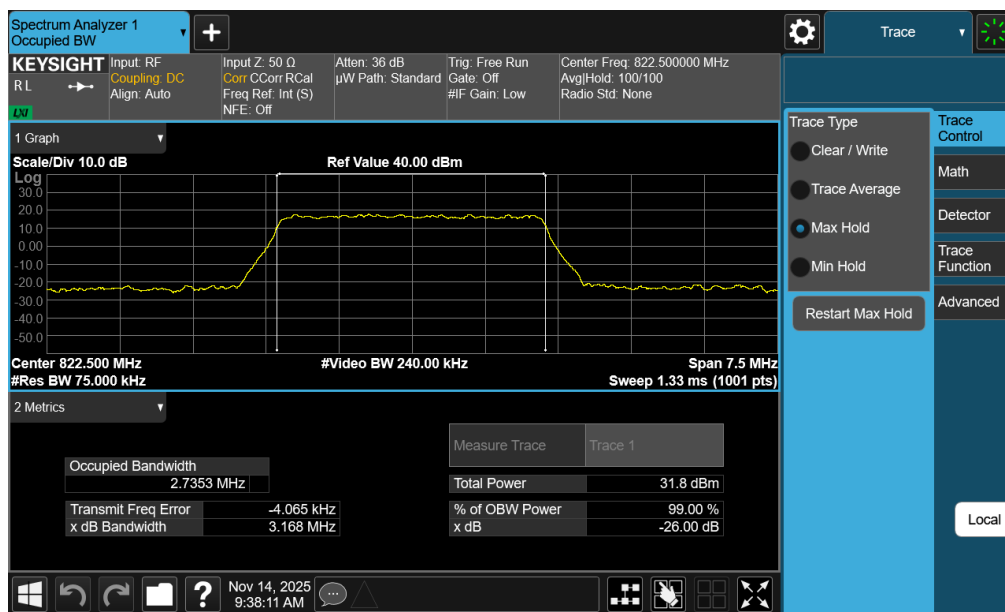


Plot 7-12. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 29 of 62

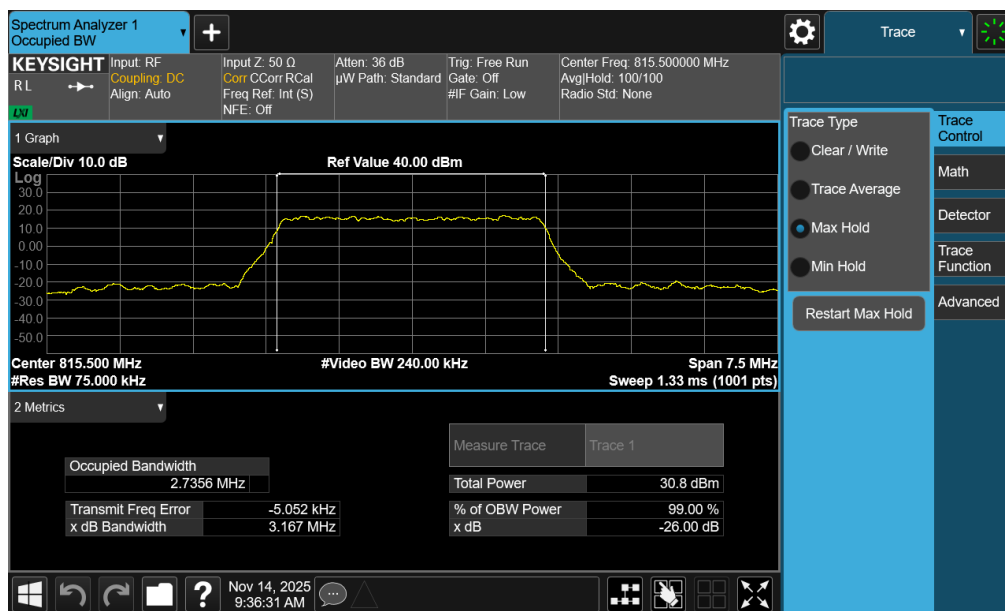


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel - Full RB)

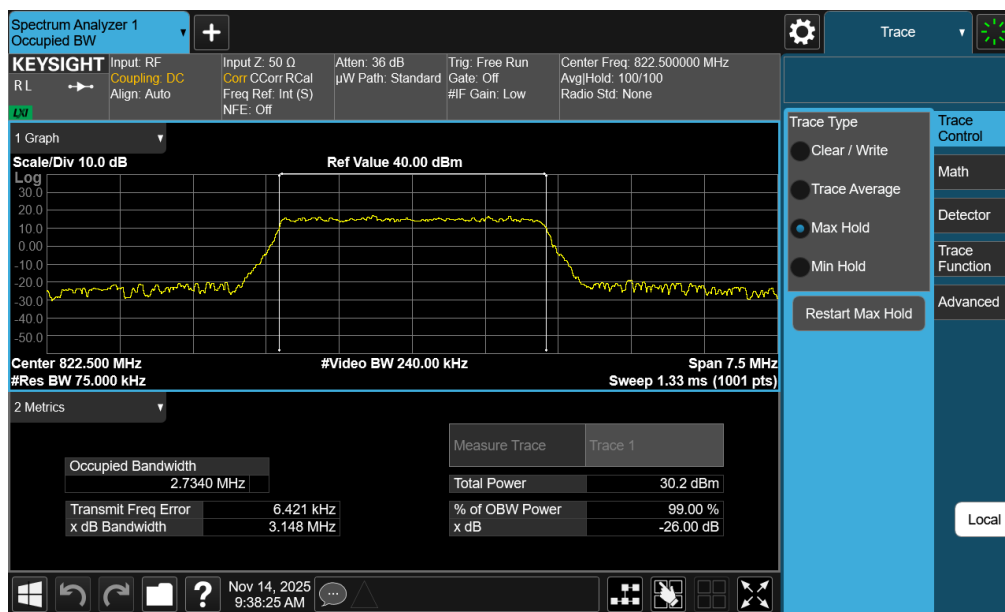


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 30 of 62

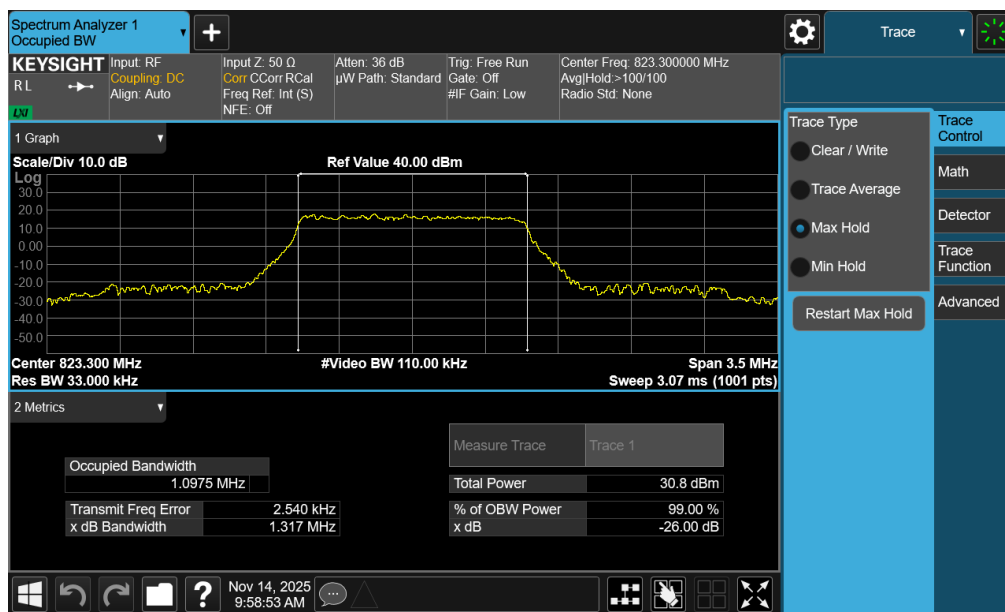
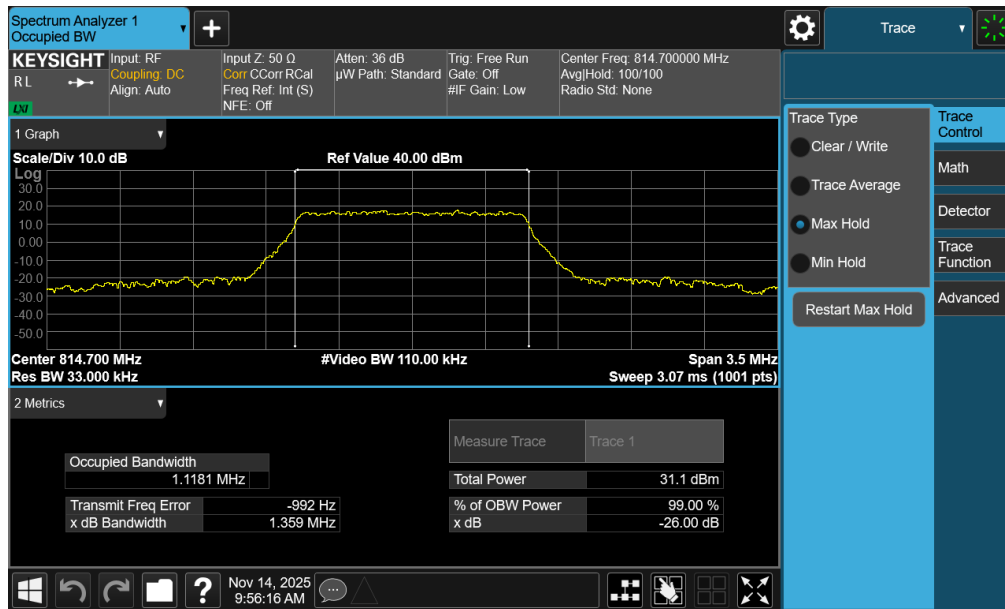


Plot 7-12. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)

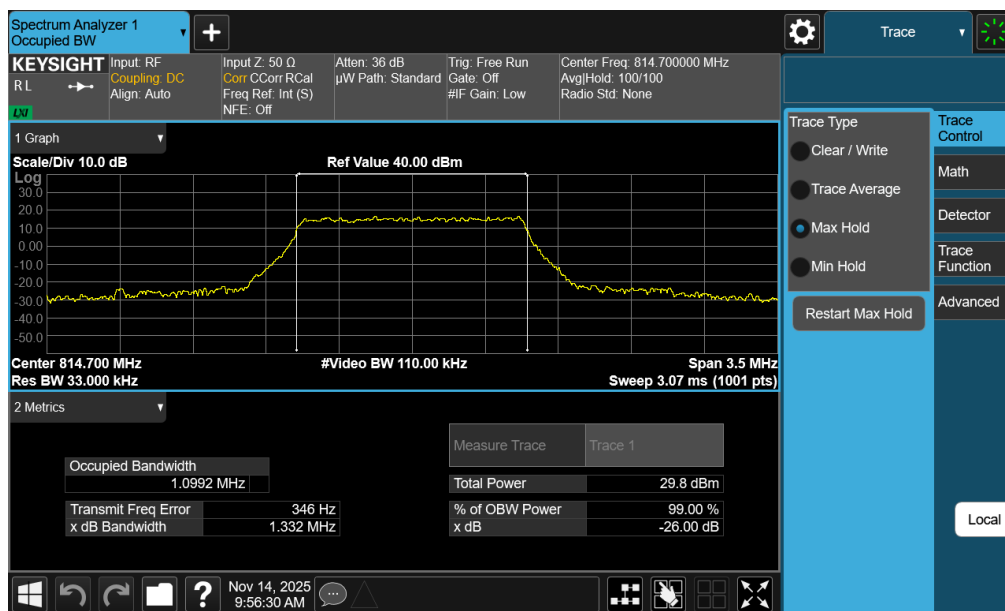


Plot 7-12. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM High Channel - Full RB)

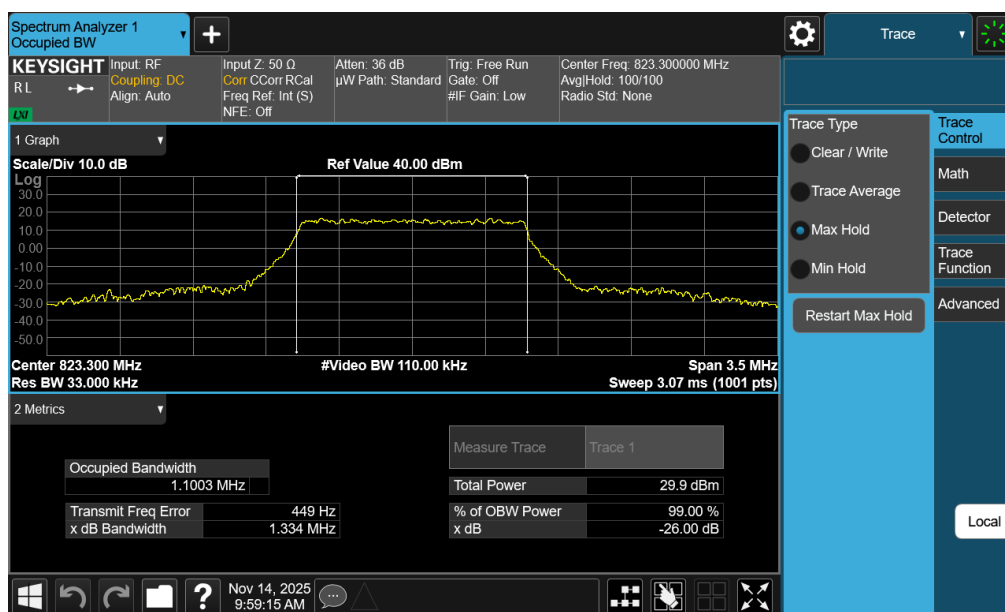
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 31 of 62



FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 32 of 62



Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 33 of 62

7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates 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.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
2. RBW $\geq$ 100kHz
3. VBW $\geq$ 3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

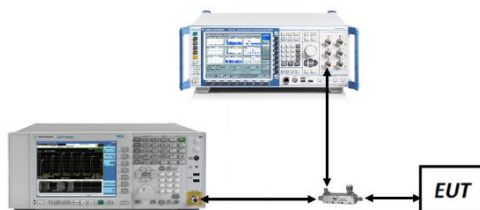


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

Per Part 22H and 90, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

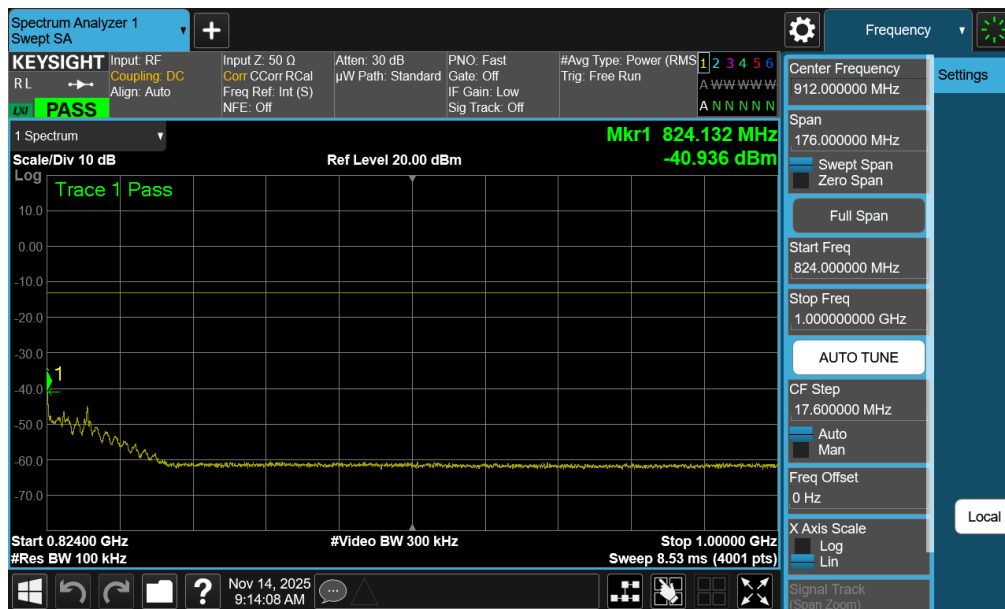
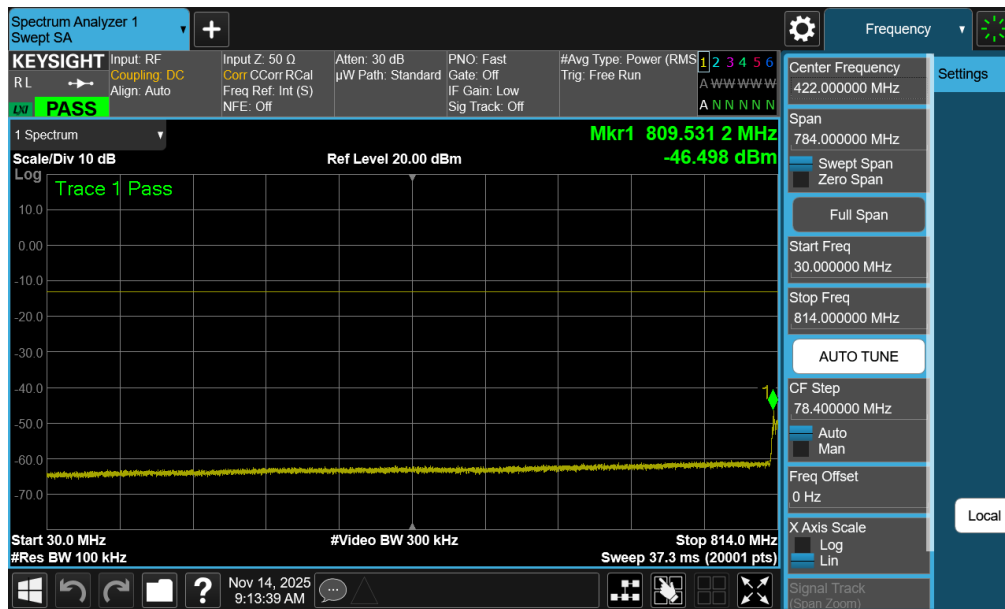
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 34 of 62

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B26	15 MHz	Mid	30.0 - 814.0	-46.50	-13	-33.50
		Mid	824.0 - 1000.0	-40.94	-13	-27.94
		Mid	1000.0 -10000.0	-39.61	-13	-26.61

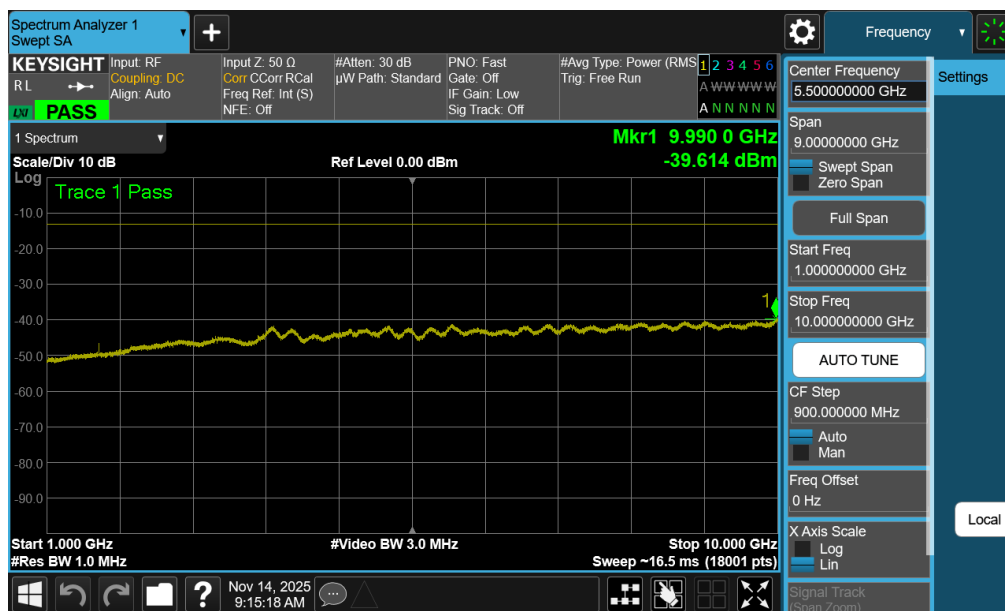
Table 7-6. Conducted Spurious Test Results – Ant 1

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 35 of 62

LTE Band 26 - Ant 1



FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 36 of 62



Plot 7-3. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

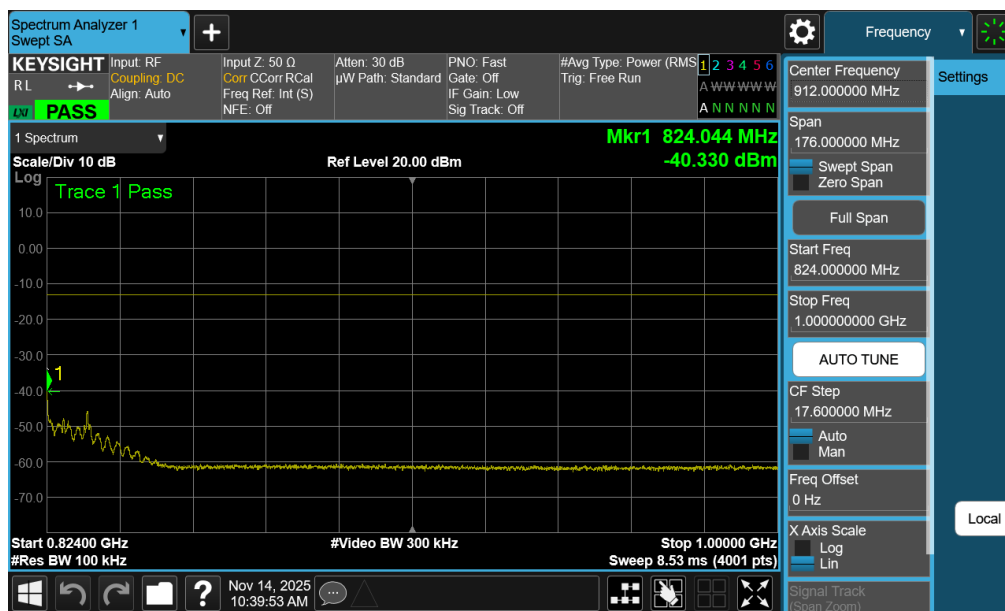
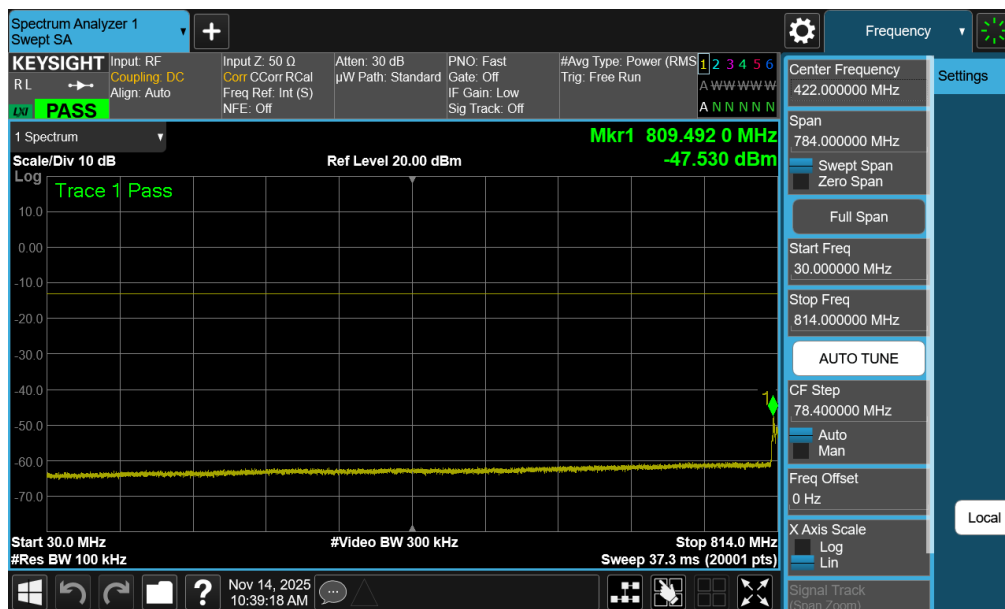
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 37 of 62

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B26	15 MHz	Mid	30.0 - 814.0	-47.53	-13	-34.53
		Mid	824.0 - 1000.0	-40.33	-13	-27.33
		Mid	1000.0 - 10000.0	-39.62	-13	-26.62

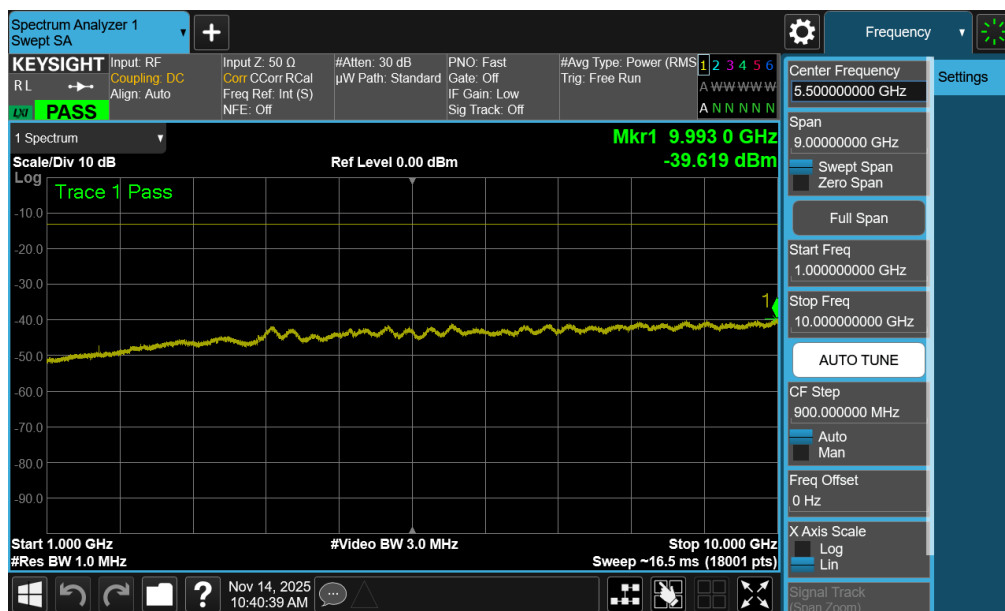
Table 7-7. Conducted Spurious Test Results – Ant 2

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 38 of 62

LTE Band 26 - Ant 2



FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 39 of 62



Plot 7-6. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 40 of 62

7.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates 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.

For LTE B26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.3

Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

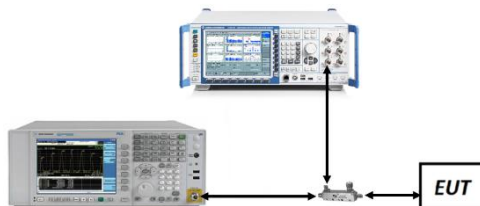


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 41 of 62

Test Notes

1. For channel edge emission, the signal analyzer's "ACP" measurement capability is used.
2. Per 22.917(b) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

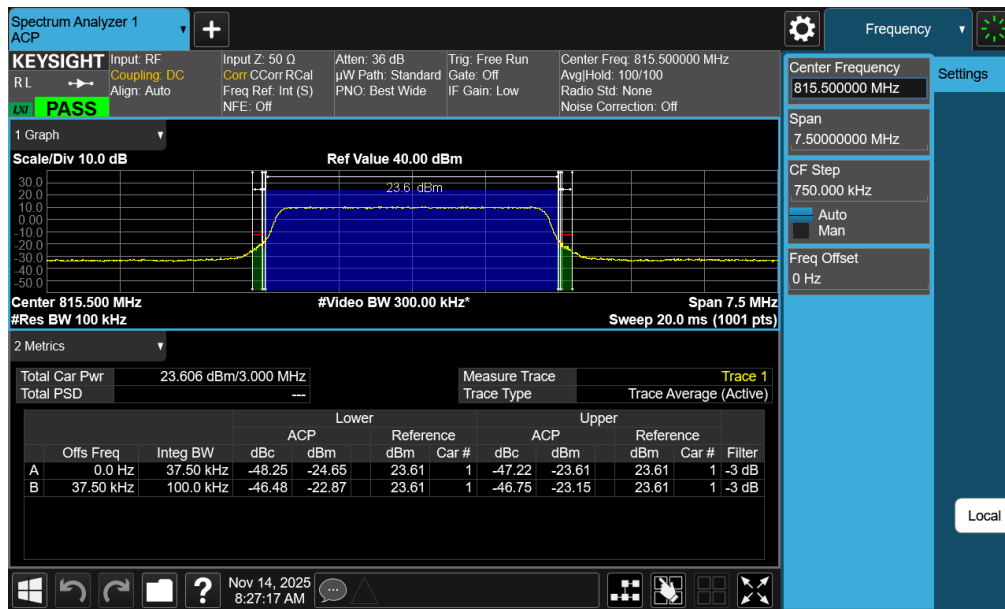
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 42 of 62

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B26	15 MHz	Mid	Band Edge	-36.74	-20	-16.74
	10 MHz	Mid	Band Edge	-31.93	-20	-11.93
	5 MHz	Low	Band Edge	-25.43	-20	-5.43
		High	Band Edge	-25.83	-20	-5.83
	3 MHz	Low	Band Edge	-23.61	-20	-3.61
		High	Band Edge	-23.43	-20	-3.43
	1.4 MHz	Low	Band Edge	-24.79	-20	-4.79
		High	Band Edge	-24.40	-20	-4.40

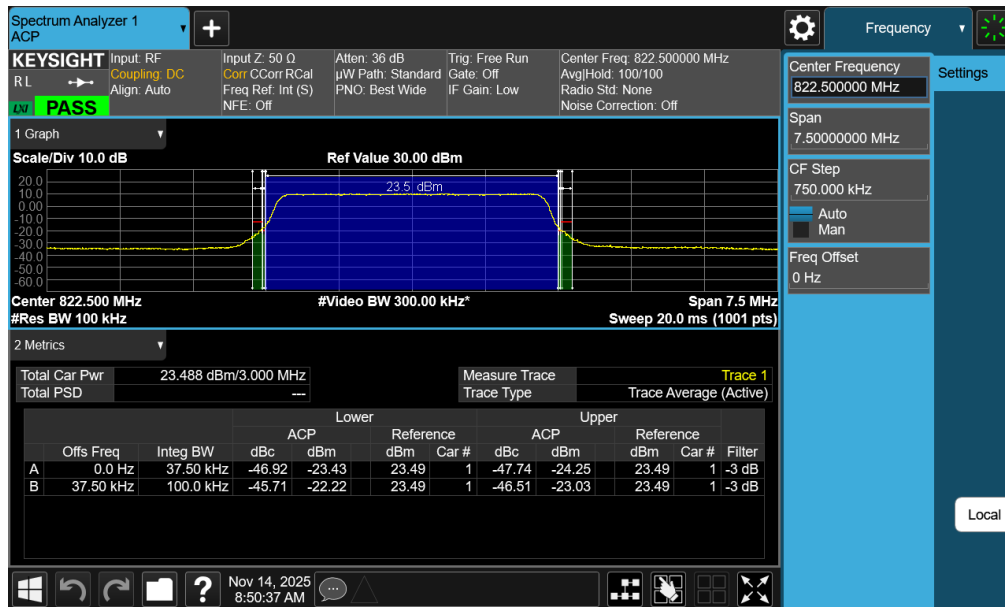
Table 7-8. Band Edge Test Results – Ant 1

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 43 of 62

LTE Band 26 – Ant 1



Plot 7-7. Channel - Edge Plot (LTE Band 26 - 3MHz QPSK - Low Channel)



Plot 7-8. Channel - Edge Plot (LTE Band 26 - 3MHz QPSK - High Channel)

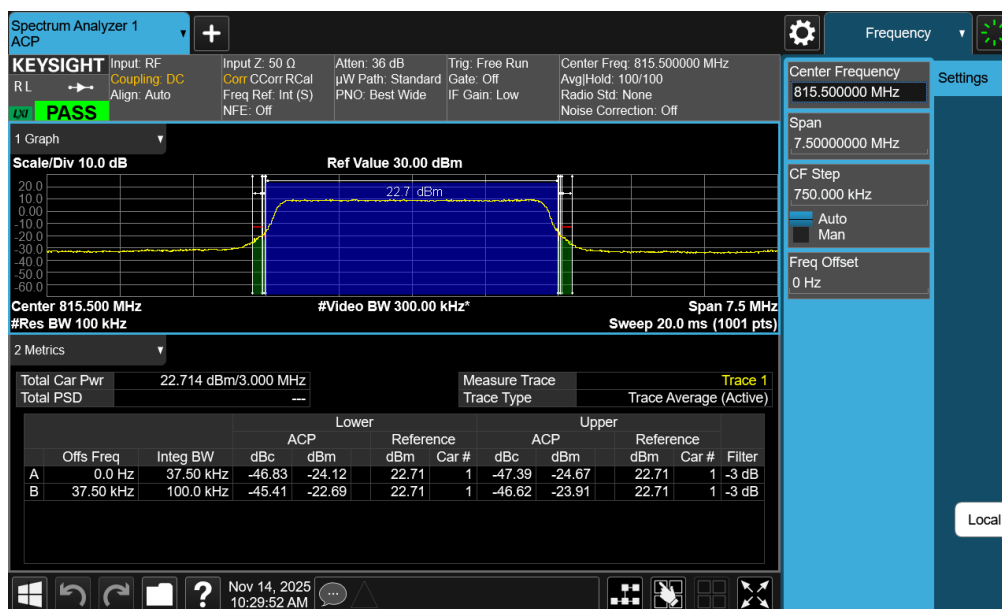
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 44 of 62

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B26	15 MHz	Mid	Band Edge	-36.57	-20	-16.57
	10 MHz	Mid	Band Edge	-32.43	-20	-12.43
	5 MHz	Low	Band Edge	-26.50	-20	-6.50
		High	Band Edge	-27.17	-20	-7.17
	3 MHz	Low	Band Edge	-24.12	-20	-4.12
		High	Band Edge	-23.91	-20	-3.91
	1.4 MHz	Low	Band Edge	-25.60	-20	-5.60
		High	Band Edge	-25.72	-20	-5.72

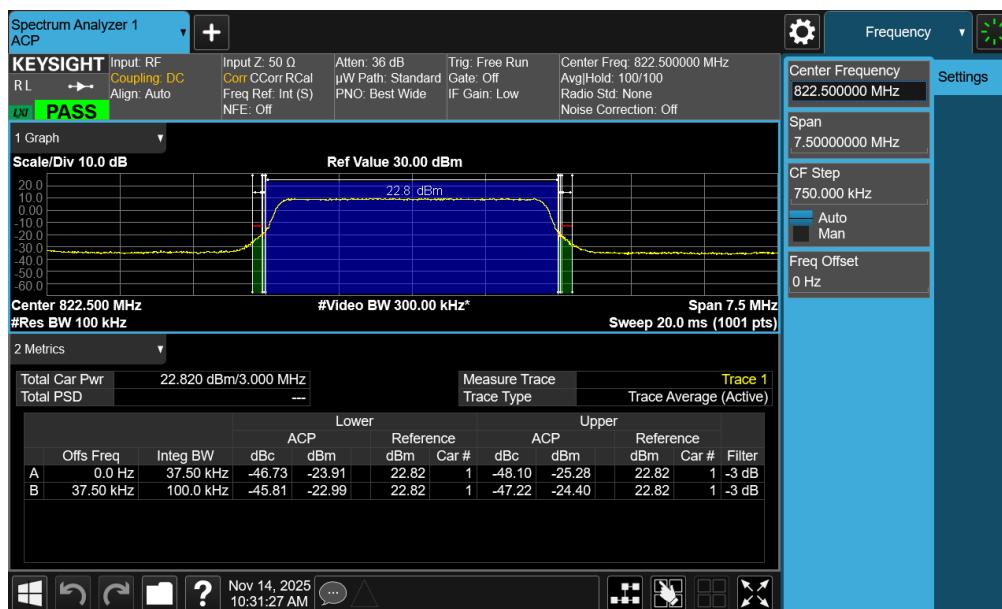
Table 7-9. Band Edge Test Results – Ant 2

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 45 of 62

LTE Band 26 – Ant 2



Plot 7-9. Channel - Edge Plot (LTE Band 26 - 3MHz QPSK - Low Channel)



Plot 7-10. Channel - Edge Plot (LTE Band 26 - 3MHz QPSK - High Channel)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 46 of 62

7.6 Radiated Power (ERP)

Test Overview

Effective Radiated Power (ERP) measurements are performed using the substitution method described in ANSI C63.26:2015 with the EUT transmitting into an integral antenna. Measurements 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

ANSI C63.26:2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq$ 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq$ 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 47 of 62

Test Setup

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

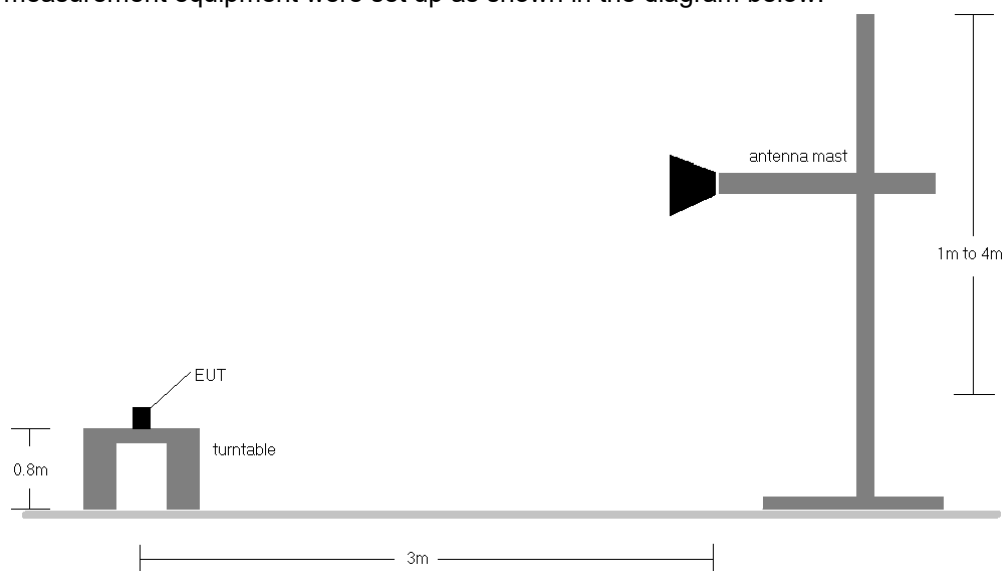


Figure 7-5. Radiated Test Setup <1GHz

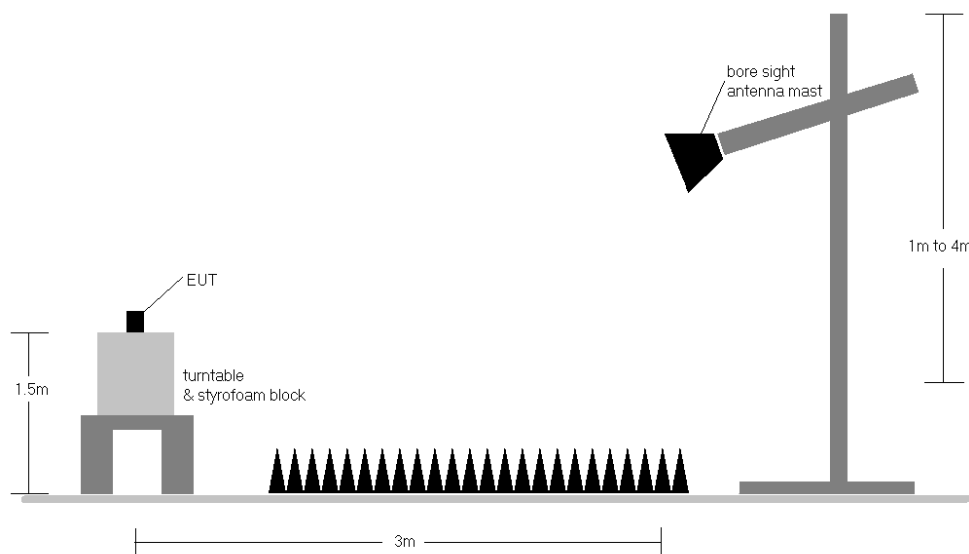


Figure 7-6. Radiated Test Setup > 1GHz

Test Notes

- 1) 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.
- 2) This unit was tested with its standard battery.

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 48 of 62

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]
15 MHz	QPSK	821.50	V	139	300	1.04	1 / 74	21.14	20.03	0.101	38.45	-18.42	22.18	0.165	40.61	-18.43
	16-QAM	821.50	V	139	300	1.04	1 / 74	20.00	18.89	0.077	38.45	-19.56	21.04	0.127	40.61	-19.57
10 MHz	QPSK	819.00	V	139	300	1.04	1 / 49	21.16	20.05	0.101	38.45	-18.40	22.20	0.166	40.61	-18.41
	16-QAM	819.00	V	139	300	1.04	1 / 49	20.03	18.92	0.078	38.45	-19.53	21.07	0.128	40.61	-19.54
5 MHz	QPSK	816.50	V	139	300	1.03	1 / 24	21.07	19.95	0.099	38.45	-18.50	22.10	0.162	40.61	-18.51
	QPSK	821.50	V	139	300	1.04	1 / 24	21.07	19.96	0.099	38.45	-18.49	22.11	0.163	40.61	-18.50
	16-QAM	816.50	V	139	300	1.03	1 / 24	20.00	18.88	0.077	38.45	-19.57	21.03	0.127	40.61	-19.58
	16-QAM	821.50	V	139	300	1.04	1 / 24	19.88	18.77	0.075	38.45	-19.68	20.92	0.124	40.61	-19.69
3 MHz	QPSK	815.50	V	139	300	1.03	1 / 7	21.03	19.91	0.098	38.45	-18.54	22.06	0.161	40.61	-18.55
	QPSK	822.50	V	139	300	1.04	1 / 7	21.21	20.11	0.102	38.45	-18.34	22.26	0.168	40.61	-18.35
	16-QAM	815.50	V	139	300	1.03	1 / 7	19.89	18.77	0.075	38.45	-19.68	20.92	0.124	40.61	-19.69
	16-QAM	822.50	V	139	300	1.04	1 / 7	19.83	18.72	0.074	38.45	-19.73	20.87	0.122	40.61	-19.74
1.4 MHz	QPSK	814.70	V	139	300	1.03	1 / 3	21.12	19.99	0.100	38.45	-18.46	22.14	0.164	40.61	-18.46
	QPSK	823.30	V	139	300	1.05	1 / 5	21.02	19.91	0.098	38.45	-18.54	22.06	0.161	40.61	-18.55
	16-QAM	814.70	V	139	300	1.03	1 / 3	20.09	18.96	0.079	38.45	-19.49	21.11	0.129	40.61	-19.49
	16-QAM	823.30	V	139	300	1.05	1 / 5	19.95	18.84	0.077	38.45	-19.61	20.99	0.126	40.61	-19.61
15 MHz	QPSK	816.50	H	113	287	1.04	1 / 74	18.53	17.42	0.055	38.45	-21.03	19.57	0.091	40.61	-21.04

Table 7-10. ERP Data (LTE Band 26 – Ant 1)

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]
15 MHz	QPSK	821.50	H	114	245	1.04	1 / 0	22.21	21.10	0.129	38.45	-17.35	23.25	0.211	40.61	-17.36
	16-QAM	821.50	H	114	245	1.04	1 / 0	21.35	20.24	0.106	38.45	-18.21	22.39	0.173	40.61	-18.22
10 MHz	QPSK	819.00	H	114	245	1.04	1 / 25	22.25	21.14	0.130	38.45	-17.31	23.29	0.213	40.61	-17.32
	16-QAM	819.00	H	114	245	1.04	1 / 25	21.32	20.21	0.105	38.45	-18.24	22.36	0.172	40.61	-18.25
5 MHz	QPSK	816.50	H	114	245	1.03	1 / 0	22.21	21.09	0.128	38.45	-17.36	23.24	0.211	40.61	-17.37
	QPSK	821.50	H	114	245	1.04	1 / 24	22.15	21.04	0.127	38.45	-17.41	23.19	0.209	40.61	-17.41
	16-QAM	816.50	H	114	245	1.03	1 / 0	21.30	20.18	0.104	38.45	-18.27	22.33	0.171	40.61	-18.28
	16-QAM	821.50	H	114	245	1.04	1 / 24	21.31	20.20	0.105	38.45	-18.25	22.35	0.172	40.61	-18.26
3 MHz	QPSK	815.50	H	114	245	1.03	1 / 14	22.12	21.00	0.126	38.45	-17.46	23.15	0.206	40.61	-17.46
	QPSK	822.50	H	114	245	1.04	1 / 7	22.27	21.16	0.131	38.45	-17.29	23.31	0.214	40.61	-17.30
	16-QAM	815.50	H	114	245	1.03	1 / 14	21.13	20.00	0.100	38.45	-18.45	22.15	0.164	40.61	-18.45
	16-QAM	822.50	H	114	245	1.04	1 / 7	20.87	19.77	0.095	38.45	-18.68	21.92	0.156	40.61	-18.69
1.4 MHz	QPSK	814.70	H	114	245	1.03	1 / 3	22.18	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.40
	QPSK	823.30	H	114	245	1.05	1 / 3	22.11	21.01	0.126	38.45	-17.44	23.16	0.207	40.61	-17.45
	16-QAM	814.70	H	114	245	1.03	1 / 3	21.28	20.16	0.104	38.45	-18.29	22.31	0.170	40.61	-18.30
	16-QAM	823.30	H	114	245	1.05	1 / 3	21.06	19.96	0.099	38.45	-18.49	22.11	0.163	40.61	-18.50
15 MHz	QPSK	816.50	V	131	293	1.04	1 / 0	21.67	20.56	0.114	38.45	-17.89	22.71	0.187	40.61	-17.90

Table 7-11. ERP Data (LTE Band 26 – Ant 2)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 49 of 62

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26:2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26:2015 – Section 5.5.4

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: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 50 of 62

Test Setup

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

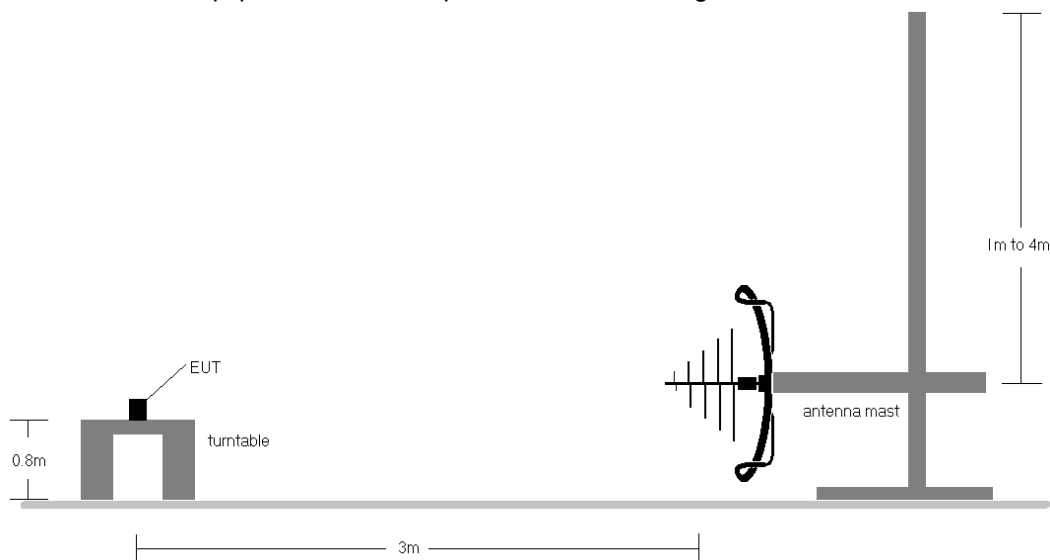


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

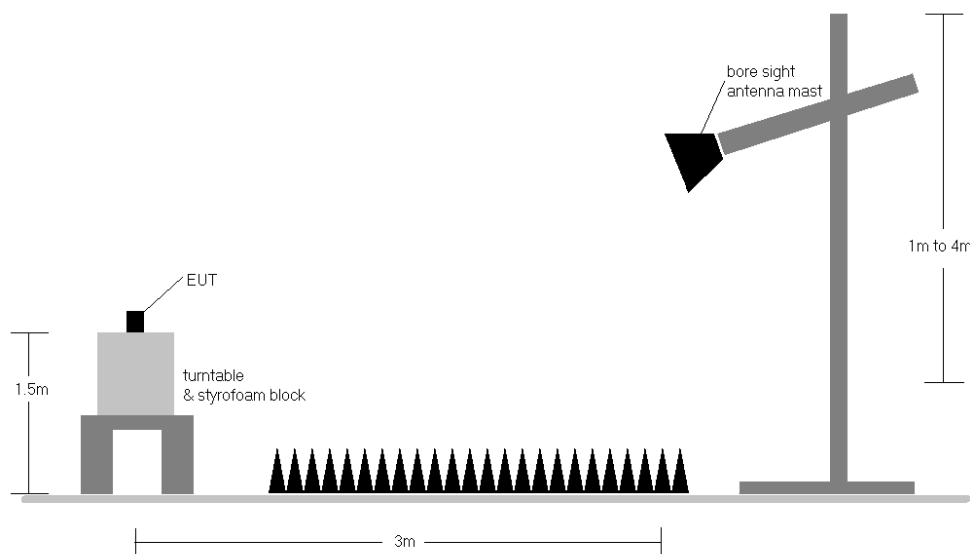


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

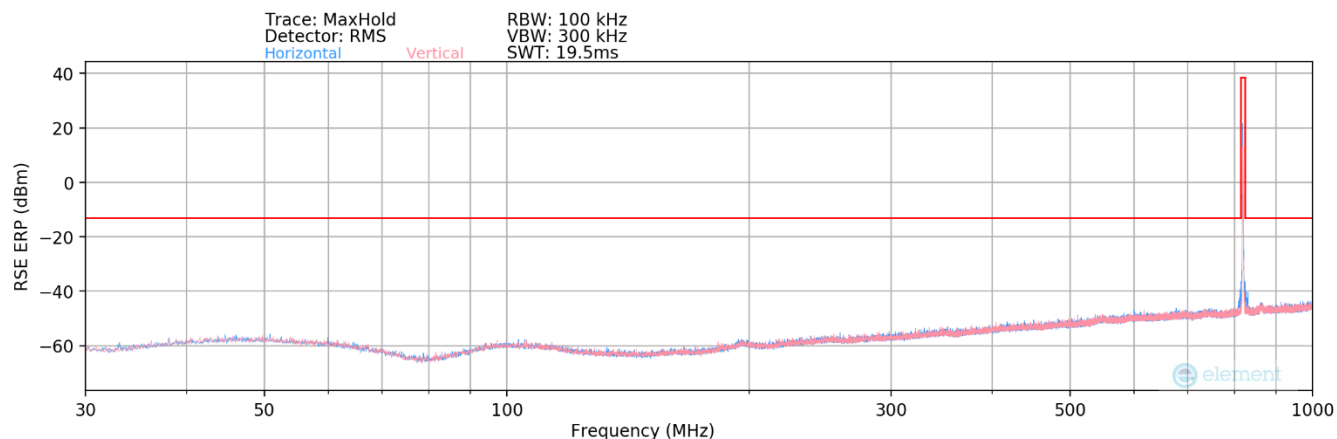
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 51 of 62

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) 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.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) 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.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 52 of 62

LTE Band 26 – Ant 1



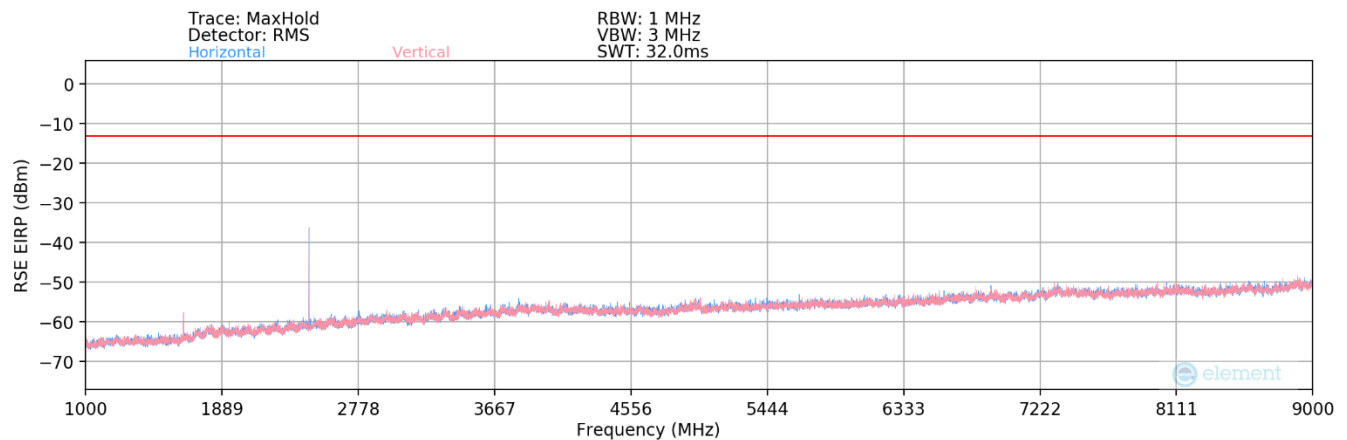
Plot 7-11. Radiated Spurious Plot Below 1GHz (LTE Band 26)

Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
611.90	V	-	-	-79.70	26.95	54.25	-43.16	-13.00	-30.16
912.30	V	-	-	-82.12	30.97	55.85	-41.56	-13.00	-28.56

Table 7-12. Radiated Spurious Data (LTE Band 26)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 53 of 62



Plot 7-12. Radiated Spurious Plot Above 1GHz (LTE Band 26)

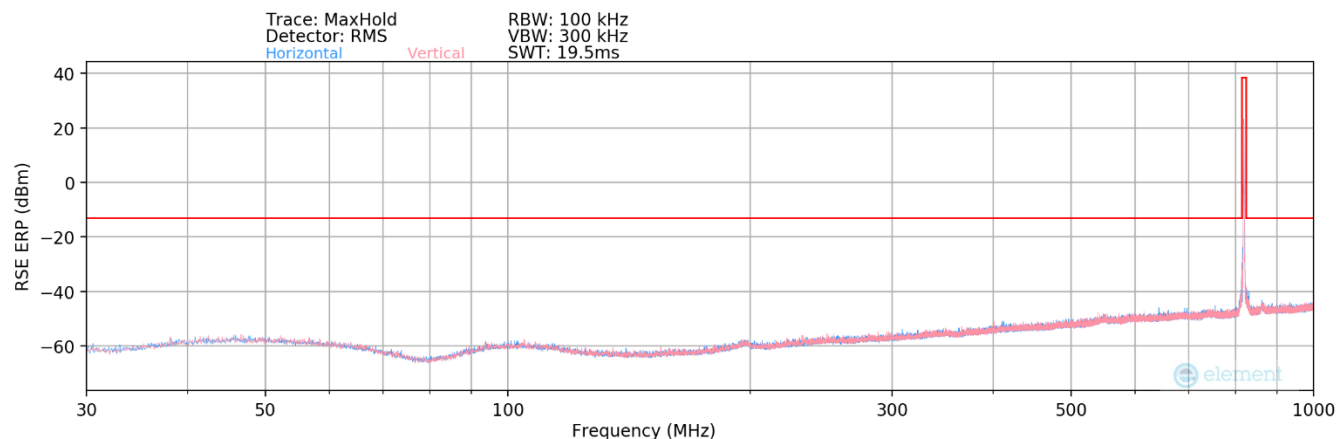
Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

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]
1638.00	V	152	40	-69.26	-7.75	29.99	-65.27	-13.00	-52.27
2457.00	V	123	291	-52.35	-4.07	50.58	-44.68	-13.00	-31.68
3276.00	V	-	-	-76.12	-0.99	29.89	-65.37	-13.00	-52.37
4095.00	V	-	-	-76.65	1.11	31.46	-63.79	-13.00	-50.79
4914.00	V	-	-	-77.21	2.38	32.17	-63.09	-13.00	-50.09
5733.00	V	-	-	-77.98	4.42	33.44	-61.82	-13.00	-48.82

Table 7-13. Radiated Spurious Data (LTE Band 26 – Mid Channel)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 54 of 62

LTE Band 26 – Ant 2



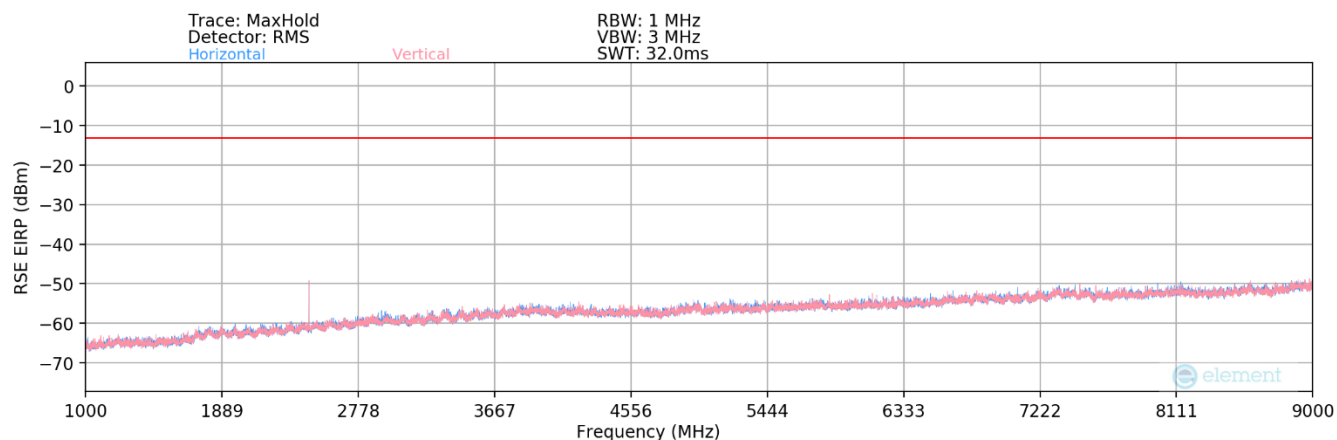
Plot 7-13. Radiated Spurious Plot Below 1GHz (LTE Band 26)

Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
528.57	V	-	-	-79.35	24.92	52.57	-44.84	-13.00	-31.84
916.10	V	-	-	-82.12	31.01	55.89	-41.52	-13.00	-28.52

Table 7-14. Radiated Spurious Data (LTE Band 26)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 55 of 62



Plot 7-14. Radiated Spurious Plot Above 1GHz (LTE Band 26)

Bandwidth (MHz):	10
Frequency (MHz):	819
RB Config (Size / Offset):	1 / 25

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]
1638.00	V	146	300	-71.98	-7.75	27.27	-67.99	-13.00	-54.99
2457.00	V	139	257	-65.45	-4.07	37.48	-57.78	-13.00	-44.78
3276.00	V	-	-	-76.35	-0.99	29.66	-65.60	-13.00	-52.60
4095.00	V	-	-	-76.98	1.11	31.13	-64.12	-13.00	-51.12
4914.00	V	-	-	-77.54	2.38	31.84	-63.42	-13.00	-50.42
5733.00	V	-	-	-77.98	4.42	33.44	-61.82	-13.00	-48.82

Table 7-15. Radiated Spurious Data (LTE Band 26 – Mid Channel)

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

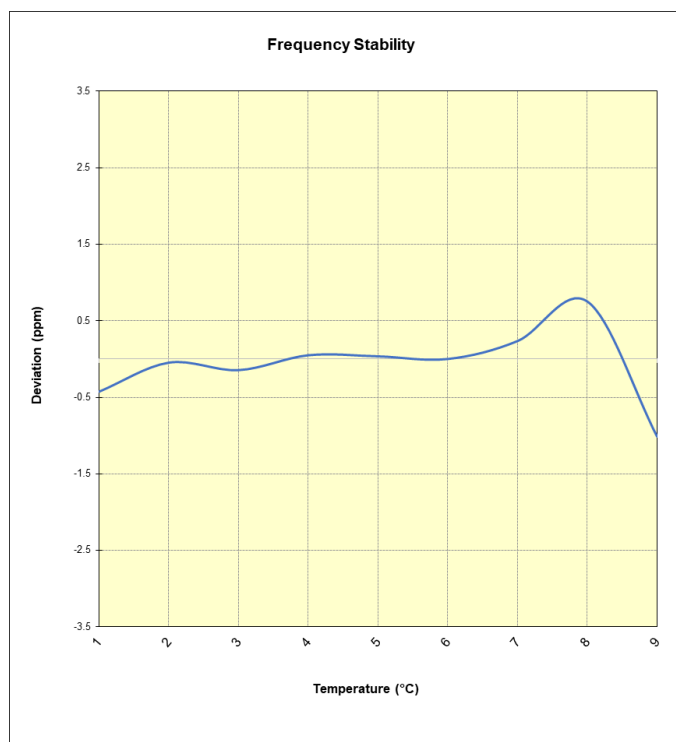
FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 57 of 62

LTE Band 26

Operating Frequency (Hz):	819,000,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	818,985,029	-349	-0.0000426
		- 20	818,985,339	-39	-0.0000048
		- 10	818,985,259	-119	-0.0000145
		0	818,985,418	40	0.0000049
		+ 10	818,985,406	28	0.0000034
		+ 20 (Ref)	818,985,378	0	0.0000000
		+ 30	818,985,570	192	0.0000234
		+ 40	818,985,991	613	0.0000748
		+ 50	818,984,549	-829	-0.0001012
Battery Endpoint	3.648	+ 20	818,985,283	-95	-0.0000116

Table 7-16. LTE Band 26 Frequency Stability Data



Plot 7-15. LTE Band 26 Frequency Stability Chart

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA576B** complies with all the requirements of Parts 22(H) and 90 of the FCC rules. **FCC ID: A3LSMA576U** (Model: SM-A576U1) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMA576B**

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 59 of 62

9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

Notes

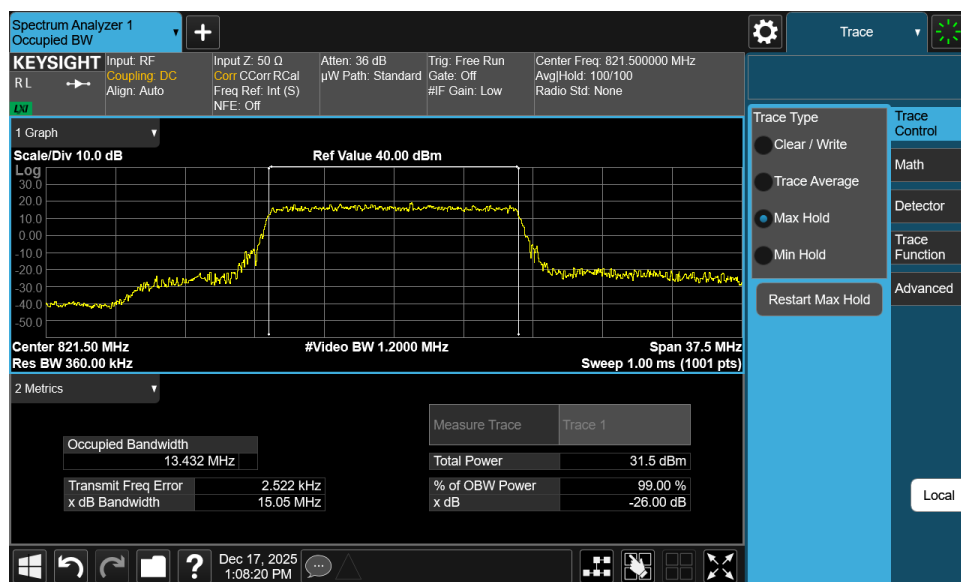
1. Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – SM-A576B/DS

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
15 MHz	QPSK	26765	821.5	1 / 74	24.24

Table 9-1. Conducted Output Power Measurements (Spot-check) – LTE B26

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 9-1. Occupied Bandwidth (Spot-check) – LTE B26

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Radiated Spot-Checks – SM-A576B/DS

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]
15 MHz	QPSK	821.50	V	Z	139	303	1.04	1 / 74	19.76	18.65	0.073	38.45

Table 9-2. ERP Measurements (Spot-check) – LTE B26

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-A576U	Variant Model: SM-A576B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
90	Conducted Output Power	Mid Ch. 26765, 15MHz, QPSK, ANT A	dBm	N/A	24.61	24.24	-0.37	1	PASS
	Occupied Bandwidth	Mid Ch. 26765, 15MHz, QPSK, ANT A	MHz	N/A	13.52	13.43	-0.09	N/A	PASS
	ERP	Mid Ch. 26765, 15MHz, QPSK, ANT A	dBm	38.45	20.03	18.65	-1.38	3	PASS

Table 9-3. Summary of Spot-checks – LTE B26

- END OF TEST REPORT -

FCC ID: A3LSMA576B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2510280091-10-R1.A3L	Test Dates: 11/03/2025 – 11/28/2025	EUT Type: Portable Handset	Page 62 of 62