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PART 90 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

9/9/2025 - 10/15/2025

Test Report Issue Date:

1/8/2026

Test Site/Location:

Element Lab., Columbia, MD, USA
Element Lab., Yongin-Si, Gyeonggi-do, South Korea

Test Report Serial No.:

1M2508270084-12.A3L

FCC ID:

A3LSMS942B

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-S942B/DS

Additional Model:

SM-S942B

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, KDB 648474 D03 v01r04

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.

RJ Ortanez
Executive Vice President



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TEST REPORT REVISION HISTORY

Rev. No.	Description	Issue Date	Revised By
-	Initial Release	1/8/2026	WKR0000023296

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FCC Part 22 & 90

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	0.051	17.07	13M6G7D
		16QAM	821.5	ERP	0.039	15.92	13M5W7D
	15 MHz	QPSK	821.5	Conducted	0.247	23.92	13M6G7D
		16QAM	821.5	Conducted	0.210	23.23	13M5W7D
	10 MHz	QPSK	819.0	Conducted	0.248	23.95	9M08G7D
		16QAM	819.0	Conducted	0.204	23.10	9M08W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.251	24.00	4M62G7D
		16QAM	816.5 - 821.5	Conducted	0.210	23.22	4M57W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.253	24.03	2M73G7D
		16QAM	815.5 - 822.5	Conducted	0.205	23.12	2M73W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.252	24.02	1M12G7D
		16QAM	814.7 - 823.3	Conducted	0.205	23.12	1M10W7D
NR Band n26	20 MHz	$\pi/2$ BPSK	824.0	ERP	0.066	18.18	18M0G7D
		QPSK	824.0	ERP	0.065	18.12	19M1G7D
		16QAM	824.0	ERP	0.050	16.99	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	ERP	0.065	18.13	13M6G7D
		QPSK	821.5	ERP	0.064	18.04	14M2G7D
		16QAM	821.5	ERP	0.049	16.91	14M2W7D
	20 MHz	$\pi/2$ BPSK	824.0	Conducted	0.261	24.17	18M0G7D
		QPSK	824.0	Conducted	0.245	23.90	19M1G7D
		16QAM	824.0	Conducted	0.197	22.95	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	Conducted	0.258	24.12	13M6G7D
		QPSK	821.5	Conducted	0.241	23.82	14M2G7D
		16QAM	821.5	Conducted	0.194	22.87	14M2W7D
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	0.246	23.90	9M10G7D
		QPSK	819.0	Conducted	0.235	23.72	9M36G7D
		16QAM	819.0	Conducted	0.189	22.75	9M39W7D
	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	0.256	24.08	4M57G7D
		QPSK	816.5 - 821.5	Conducted	0.255	24.06	4M61G7D
		16QAM	816.5 - 821.5	Conducted	0.207	23.16	4M57W7D

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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	0.182	22.60	13M6G7D
		16QAM	821.5	ERP	0.153	21.84	13M6W7D
	15 MHz	QPSK	821.5	Conducted	0.236	23.74	13M6G7D
		16QAM	821.5	Conducted	0.202	23.06	13M6W7D
	10 MHz	QPSK	819.0	Conducted	0.236	23.73	9M09G7D
		16QAM	819.0	Conducted	0.194	22.89	9M04W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.240	23.80	4M57G7D
		16QAM	816.5 - 821.5	Conducted	0.201	23.02	4M55W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.232	23.65	2M73G7D
		16QAM	815.5 - 822.5	Conducted	0.201	23.03	2M76W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.235	23.71	1M11G7D
		16QAM	814.7 - 823.3	Conducted	0.196	22.91	1M12W7D
	20 MHz	$\pi/2$ BPSK	824.0	ERP	0.094	19.71	18M1G7D
		QPSK	824.0	ERP	0.091	19.61	19M1G7D
		16QAM	824.0	ERP	0.074	18.70	19M0W7D
NR Band n26	15 MHz	$\pi/2$ BPSK	821.5	ERP	0.095	19.79	13M5G7D
		QPSK	821.5	ERP	0.087	19.38	14M2G7D
		16QAM	821.5	ERP	0.073	18.61	14M2W7D
	20 MHz	$\pi/2$ BPSK	824.0	Conducted	0.250	23.97	18M1G7D
		QPSK	824.0	Conducted	0.256	24.08	19M1G7D
		16QAM	824.0	Conducted	0.202	23.05	19M0W7D
	15 MHz	$\pi/2$ BPSK	821.5	Conducted	0.254	24.05	13M5G7D
		QPSK	821.5	Conducted	0.243	23.85	14M2G7D
		16QAM	821.5	Conducted	0.198	22.97	14M2W7D
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	0.253	24.04	9M09G7D
		QPSK	819.0	Conducted	0.254	24.05	9M38G7D
		16QAM	819.0	Conducted	0.199	22.98	9M37W7D
	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	0.258	24.11	4M57G7D
		QPSK	816.5 - 821.5	Conducted	0.243	23.86	4M61G7D
		16QAM	816.5 - 821.5	Conducted	0.197	22.94	4M57W7D

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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

These measurement tests were conducted at the Element laboratory 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 Element lab located in Columbia, MD 21046, U.S.A. ("MD")

- Element Washington DC LLC 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.
- Element Washington DC LLC 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).
- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISSED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISSED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreement.

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

- 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 ISSED: 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: A3LSMS942B**. 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.

Test Device Serial No.: 3006M, 2997M, 0099M, 0110M, 0263M

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/ac/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer

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.

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-2400 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

Band	Ant1	Ant2
LTE Band B26/5	Ant A	Ant E
NR Band n26/5	Ant A	Ant E

2.4 Duty Cycle Information

For all 5G NR and LTE operations in FDD mode, the EUT duty cycle was set to 100%.

For LTE TDD operation, a call box was used to force maximum transmission for each band. For LTE TDD bands, the maximum duty cycle is 63.3% for PC3 and 43.3% for PC2.

2.5 Software and Firmware

Testing was performed on device(s) using software/firmware version S942BXXU0AYI8 installed on the EUT.

2.6 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	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 4-1. Measurement Uncertainty Budget – MD

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 4-2. Measurement Uncertainty Budget – EK

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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
-	AP1-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP1-002
-	AP2-001	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-001
-	AP2-002	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2-002
-	ETS-001	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-001
-	ETS-002	EMC Cable and Switch System	12/11/2024	Annual	12/11/2025	ETS-002
-	LTx1	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx1
-	LTx2	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx2
-	LTx3	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx3
-	LTx4	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx4
-	LTx5	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx5
Anritsu	MT8000A	Radio Communication Test Station	6/4/2025	Annual	6/4/2026	6261914237
Anritsu	MT8000A	Radio Communication Test Station	3/11/2025	Annual	3/11/2026	6272337439
Anritsu	MT8821C	Radio Communication Analyze	3/14/2025	Annual	3/14/2026	6262044715
EMCO	3115	Horn Antenna (1-18GHz)	9/6/2024	Biennial	9/6/2026	9704-5182
Espec	ESX-2CA	Environmental Chamber	11/20/2024	Biennial	11/20/2026	17620
ETS-Lindgren	3164-05	Quad Ridge Horn (Small) 2 - 18GHz	6/4/2025	Biennial	6/4/2027	208255
ETS-Lindgren	3116C	DRG Horn Antenna	4/22/2025	Biennial	4/22/2027	218893
Keysight Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY49430494
Keysight Technologies	N9030B	PXA Signal Analyzer, Multi-touch	9/19/2024	Annual	11/22/2025	MY57141001
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	5/12/2025	Annual	5/12/2026	103200
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	11/25/2024	Annual	11/25/2025	100348
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/25/2025	Annual	3/25/2026	101716
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	6/18/2025	Annual	6/18/2026	140148
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Sunol Sciences	DRH-118	Horn (Small)	2/13/2024	Biennial	2/13/2026	A042511

Table 5-1. Test Equipment – MD

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Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9030A	PXA Signal Analyzer	5/23/2025	Annual	5/22/2026	MY49432391
Anritsu	S820E	Cable and Antenna Analyzer	6/13/2025	Annual	6/12/2026	1839097
Rohde & Schwarz	NRP-Z81	POWER SENSOR	5/23/2025	Annual	5/22/2026	101499
Anritsu	MT8000A	Radio Communicatino Test Station	11/12/2024	Annual	11/11/2025	6272337405
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	10/10/2024	Biennial	10/9/2026	10160045
Espec	SH-242	Environmental Chamber	9/17/2025	Annual	9/16/2026	93011064
Fairview Microwave	FM2CP1122-10	2.92mm Directional Coupler	7/17/2025	Annual	7/16/2026	1946
Keysight Technologies	N9030B	PXA Signal Analyzer	7/7/2025	Annual	7/6/2026	MY57143278
Mini-Circuits	BW-N10W5+	Attenuator	7/3/2025	Annual	7/2/2026	TEMPNO.01-151
Mini-Circuits	BW-N10W5+	Attenuator	7/17/2025	Annual	7/16/2026	TEMPNO.01-150
NARDA	180-442A-KF	Horn Antenna (small)	1/13/2025	Annual	1/12/2026	180-442A-KF
Rohde & Schwarz	SMF100A	Signal Generator	7/3/2025	Annual	7/2/2026	104154
Rohde & Schwarz	CMW500	Wideband Radio Communicatino Tester	1/6/2025	Annual	1/5/2026	171075
Rohde & Schwarz	FSW	Signal and Spectrum Analyzer	9/15/2025	Annual	9/14/2026	101955
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	1/6/2025	Annual	1/5/2026	103295
Schwarzbeck	VULB9162	Broadband TRILOG Antenna	6/5/2025	Biennial	6/4/2027	9162-217
Sunol	DRH-118	Horn Antenna	6/4/2025	Annual	6/3/2026	A102416-1

Table 5-2. Test Equipment – EK

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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Component	Serial Number
Sucoflex 106A Cable	501992
MegaPhase Cable N29-N1N1-324	20335606 001
Rohde & Schwarz SF Unit	102133
MiniCircuits Cable CBL-2FT-SMSM+	77745
MegaPhase Cable 10511-1	15034701 001
MiniCircuits Switch RC 2SPDT-A18	11703270 041
Sucoflex 104 Cable	320259/4
Sucoflex 104 Cable	321999/4
Sucoflex 104 Cable	321995/4

Table 5-3. AP1 EMC Cable and Switch System Components

Component	Serial Number
Flex Cable	P2A-0001
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Chamber Passthrough	CP4/X12
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Micro-Coax Utilflex Cable UFB142A-0-0629-5GU200 MFR 6463	232069-001
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181

Table 5-4. AP2-001 EMC Cable and Switch System Components

Component	Serial Number
MiniCircuits Cable CBL-0.5M-SMNM+	47261
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-001
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-002
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	19046401 001
Megaphase (CAGE 1GVT4) Flex Cable 10511-1	15044701-006
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-002
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-004
Micro-Coax Utilflex Cable UFB142A-0-0629-5GU200 MFR 64639	232069-001
Rohde & Schwarz SF Unit	102138
Rohde & Schwarz OSP130 Open Switch and Control Unit	101181
Micro-Coax Utilflex Cable UFB311A-Q-3346-50U50U MFR 64639	231978-003
Micro-Coax Utilflex Cable UFB311A-1-0629-50U50U MFR 64639	231986-003
Rohde & Schwarz TS-PR8 Pre-Amplifier	102335

Table 5-5. AP2-002 EMC Cable and Switch System Components

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Component	Serial Number
Pasternack Cable RG214/U	111815
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001

Table 5-6. ETS-001 EMC Cable and Switch System Components

Component	Serial Number
MegaPhase (CAGE 1GVT4) Cable GR18-N5N5-24	14042714 001
MegaPhase (CAGE 1GVT4) Cable NC29-N1N1-324	20502201 001
Rohde & Schwarz SF Unit	102134
Minicircuits Cable CBL=0.5M-NMNM+	15440

Table 5-7. ETS-002 EMC Cable and Switch System Components

Component	Serial Number
Keysight Directional Coupler, Model: 87300C	55300398
Mini Circuits 6dB Attenuator, BW S6 2W263+	2105
MegaPhase Cable, Model: TM26-S1S1-30	20233001 004

Table 5-8. LTx1 Licensed Transmitter Cable Set

Component	Serial Number
Keysight Directional Coupler, Model: 87300C	55300391
Mini Circuits 6dB Attenuator, Model: BW S6 2W263+	1845
MegaPhase Cable, Model: TM26-S1S1-30	20233001 006

Table 5-9. LTx2 Licensed Transmitter Cable Set

Component	Serial Number
Keysight Directional Coupler, Model: 87300C	55300390
Pasternack 10dB Attenuator, Model: PE7005-10	N/A
MegaPhase Cable, Model: TM26-S1S1-36	18160103 002

Table 5-10. LTx3 Licensed Transmitter Cable Set

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6.0 SAMPLE CALCULATIONS

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: A3LSMS942B
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): NR/LTE

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference	Test Lab Location
CONDUCTED	Transmitter Conducted Output Power*	2.1046(a), 90.635(b)	< 100 Watts	PASS	Section 7.2	MD, EK
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3	MD, EK
	Conducted Band Edge / Spurious Emissions (LTE Band 26; NR Band n26)	2.1051, 90.691(a)	> 43 + 10 log10(P[Watts]) for all out-of-band emissions except emissions beyond 37.5kHz from the block edge > 50 + 10 log10(P[Watts]) at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Sections 7.4, 7.5	MD, EK
	Peak-to-Average Ratio	N/A	≤ 13 dB	PASS	Section 7.6	MD, EK
	Frequency Stability	2.1055, 90.213	< 2.5 ppm **Fundamental emissions stay within authorized frequency block	PASS	Section 7.9	MD
RADIATED	Effective Radiated Power (LTE Band 26; NR Band n26)	22.913(a)(2)	< 7 Watts max. ERP	PASS	Section 7.7	MD, EK
	Radiated Spurious Emissions (LTE Band 26; NR Band n26)	2.1053, 90.691(a)	> 43 + 10 log10(P[Watts]) for all out-of-band emissions except emissions beyond 37.5kHz from the block edge > 50 + 10 log10(P[Watts]) at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Section 7.8	MD

* 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.

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- 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 v2.3.2.

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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.

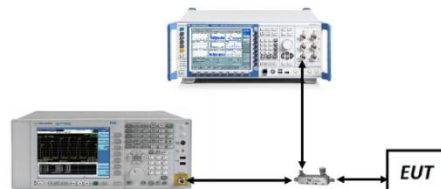


Figure 7-1. Test Instrument & Measurement Setup

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 / 37	23.92	0.247	50.00	-26.08
	16-QAM	26765	821.5	1 / 37	23.23	0.210	50.00	-26.77
10 MHz	QPSK	26740	819.0	1 / 0	23.95	0.248	50.00	-26.05
	16-QAM	26740	819.0	1 / 0	23.10	0.204	50.00	-26.90
5 MHz	QPSK	26715	816.5	1 / 0	24.00	0.251	50.00	-26.00
		26765	821.5	1 / 0	23.95	0.249	50.00	-26.05
	16-QAM	26715	816.5	1 / 0	23.09	0.204	50.00	-26.91
		26765	821.5	1 / 0	23.22	0.210	50.00	-26.78
3 MHz	QPSK	26705	815.5	1 / 7	24.03	0.253	50.00	-25.97
		26775	822.5	1 / 7	23.97	0.249	50.00	-26.03
	16-QAM	26705	815.5	1 / 7	23.12	0.205	50.00	-26.88
		26775	822.5	1 / 7	23.04	0.201	50.00	-26.96
1.4 MHz	QPSK	26697	814.7	1 / 5	24.02	0.252	50.00	-25.98
		26783	823.3	1 / 3	23.91	0.246	50.00	-26.09
	16-QAM	26697	814.7	1 / 5	23.09	0.204	50.00	-26.91
		26783	823.3	1 / 3	23.12	0.205	50.00	-26.88

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

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	164800	824.0	1 / 53	24.17	0.261	50.00	-25.83
	QPSK	164800	824.0	1 / 53	23.90	0.245	50.00	-26.10
	16-QAM	164800	824.0	1 / 53	22.95	0.197	50.00	-27.05
15 MHz	$\pi/2$ BPSK	164300	821.5	1 / 39	24.12	0.258	50.00	-25.88
	QPSK	164300	821.5	1 / 39	23.82	0.241	50.00	-26.18
	16-QAM	164300	821.5	1 / 39	22.87	0.194	50.00	-27.13
10 MHz	$\pi/2$ BPSK	163800	819.0	1 / 50	23.90	0.246	50.00	-26.10
	QPSK	163800	819.0	1 / 50	23.72	0.235	50.00	-26.28
	16-QAM	163800	819.0	1 / 50	22.75	0.189	50.00	-27.25
5 MHz	$\pi/2$ BPSK	163300	816.5	1 / 23	23.88	0.244	50.00	-26.12
		164300	821.5	1 / 23	24.08	0.256	50.00	-25.92
	QPSK	163300	816.5	1 / 23	24.06	0.255	50.00	-25.94
		164300	821.5	1 / 23	23.90	0.246	50.00	-26.10
	16-QAM	163300	816.5	1 / 23	23.16	0.207	50.00	-26.84
		164300	821.5	1 / 23	22.70	0.186	50.00	-27.30

Table 7-3. NR Band n26 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	23.74	0.236	50.00	-26.26
	16-QAM	26765	821.5	1 / 74	23.06	0.202	50.00	-26.94
10 MHz	QPSK	26740	819.0	1 / 0	23.73	0.236	50.00	-26.27
	16-QAM	26740	819.0	1 / 0	22.89	0.194	50.00	-27.11
5 MHz	QPSK	26715	816.5	1 / 24	23.80	0.240	50.00	-26.20
		26765	821.5	1 / 24	23.78	0.239	50.00	-26.22
	16-QAM	26715	816.5	1 / 24	22.94	0.197	50.00	-27.06
		26765	821.5	1 / 24	23.02	0.201	50.00	-26.98
3 MHz	QPSK	26705	815.5	1 / 0	23.51	0.224	50.00	-26.49
		26775	822.5	1 / 0	23.65	0.232	50.00	-26.35
	16-QAM	26705	815.5	1 / 0	22.98	0.199	50.00	-27.02
		26775	822.5	1 / 0	23.03	0.201	50.00	-26.97
1.4 MHz	QPSK	26697	814.7	1 / 3	23.71	0.235	50.00	-26.29
		26783	823.3	1 / 3	23.66	0.232	50.00	-26.34
	16-QAM	26697	814.7	1 / 3	22.79	0.190	50.00	-27.21
		26783	823.3	1 / 3	22.91	0.196	50.00	-27.09

Table 7-4. LTE Band 26 Conducted Powers – Ant 2

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [Watts]	Conducted Power Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	164800	824.0	1 / 104	23.97	0.250	50.00	-26.03
	QPSK	164800	824.0	1 / 104	24.08	0.256	50.00	-25.92
	16-QAM	164800	824.0	1 / 104	23.05	0.202	50.00	-26.95
15 MHz	$\pi/2$ BPSK	164300	821.5	1 / 1	24.05	0.254	50.00	-25.95
	QPSK	164300	821.5	1 / 1	23.85	0.243	50.00	-26.15
	16-QAM	164300	821.5	1 / 1	22.97	0.198	50.00	-27.03
10 MHz	$\pi/2$ BPSK	163800	819.0	1 / 50	24.04	0.253	50.00	-25.96
	QPSK	163800	819.0	1 / 50	24.05	0.254	50.00	-25.95
	16-QAM	163800	819.0	1 / 50	22.98	0.199	50.00	-27.02
5 MHz	$\pi/2$ BPSK	163300	816.5	1 / 12	24.11	0.258	50.00	-25.89
		164300	821.5	1 / 12	23.92	0.247	50.00	-26.08
	QPSK	163300	816.5	1 / 12	23.81	0.240	50.00	-26.19
		164300	821.5	1 / 12	23.86	0.243	50.00	-26.14
	16-QAM	163300	816.5	1 / 12	22.84	0.192	50.00	-27.16
		164300	821.5	1 / 12	22.94	0.197	50.00	-27.06

Table 7-5. NR Band n26 Conducted Powers – Ant 2

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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.

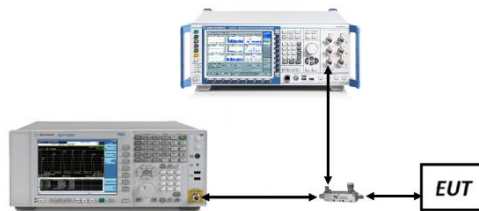


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

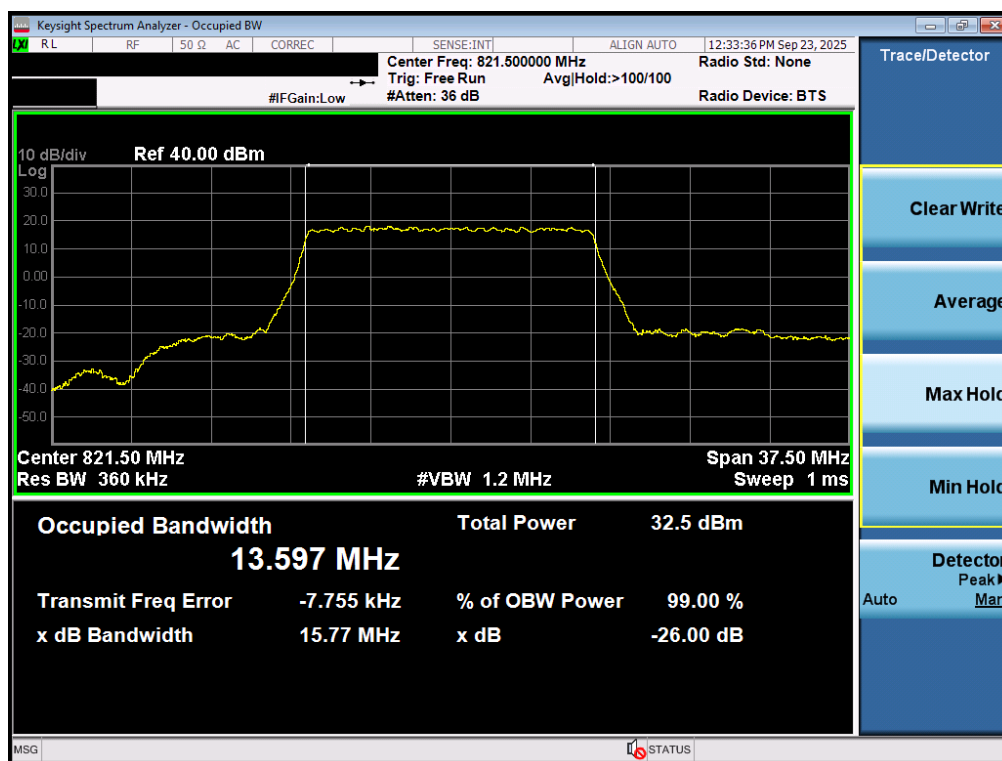
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B26	15 MHz	QPSK	13.60
		16QAM	13.53
	10 MHz	QPSK	9.08
		16QAM	9.08
	5 MHz	QPSK	4.62
		QPSK	4.58
		16QAM	4.57
		16QAM	4.57
	3 MHz	QPSK	2.73
		QPSK	2.73
		16QAM	2.72
		16QAM	2.73
	1.4 MHz	QPSK	1.12
		QPSK	1.10
		16QAM	1.10
		16QAM	1.10
	20 MHz	$\pi/2$ BPSK	18.02
		QPSK	19.08
		16QAM	19.05
	15 MHz	$\pi/2$ BPSK	13.55
		QPSK	14.18
		16QAM	14.22
NR-n26	10 MHz	$\pi/2$ BPSK	9.10
		QPSK	9.36
		16QAM	9.39
	5 MHz	$\pi/2$ BPSK	4.55
		$\pi/2$ BPSK	4.57
		QPSK	4.59
		QPSK	4.61
		16QAM	4.57
		16QAM	4.57

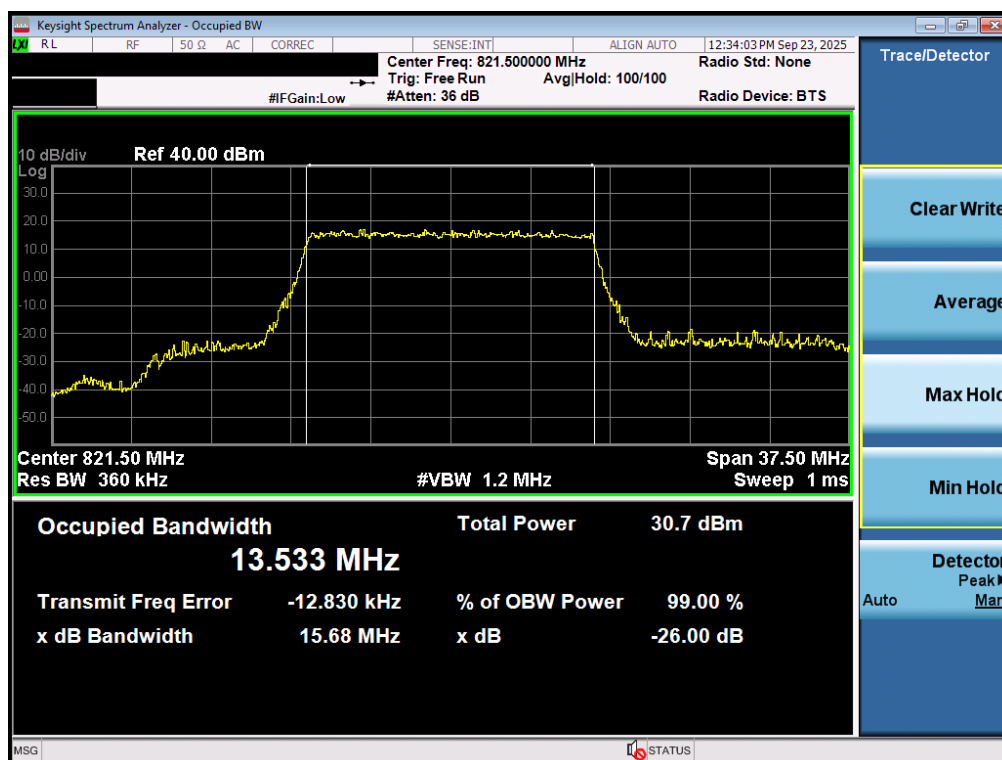
Table 7-6. Occupied Bandwidth Results – Ant 1

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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LTE Band 26 – Ant 1



Plot 7-1. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB)

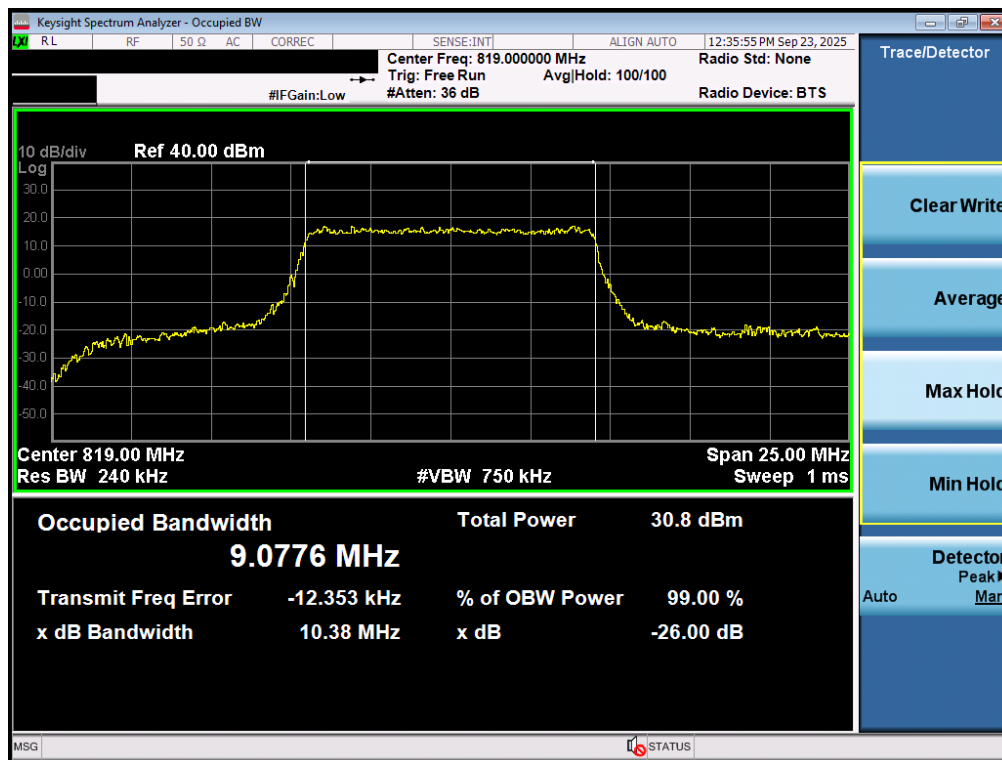


Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-3. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB)

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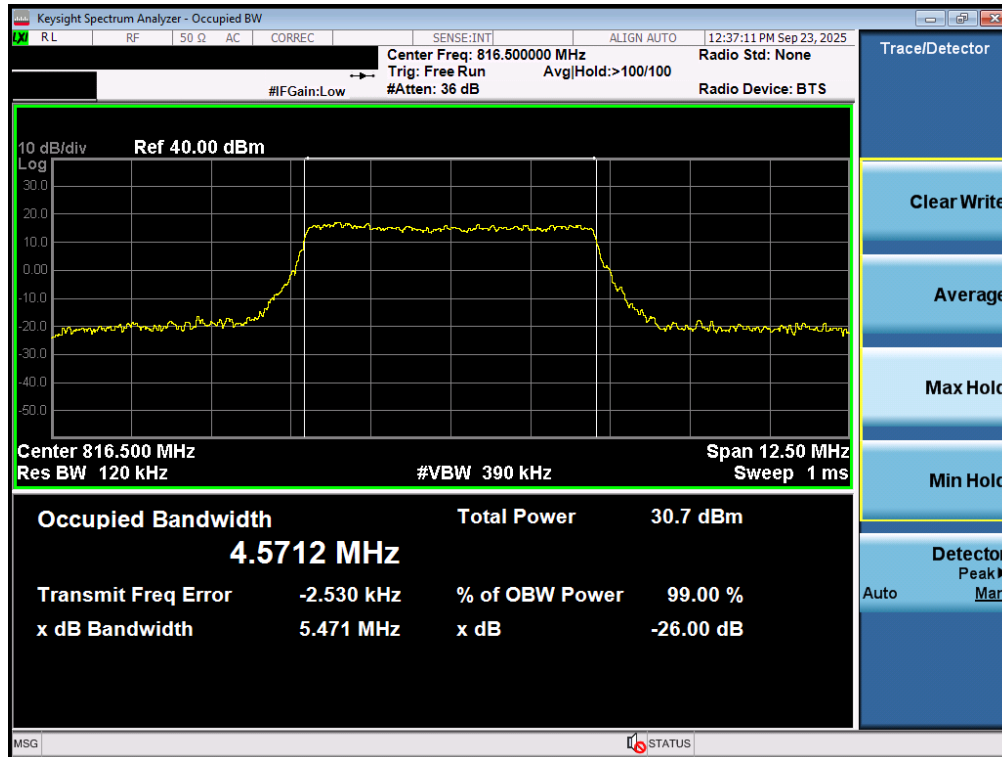


Plot 7-5. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel- Full RB)



Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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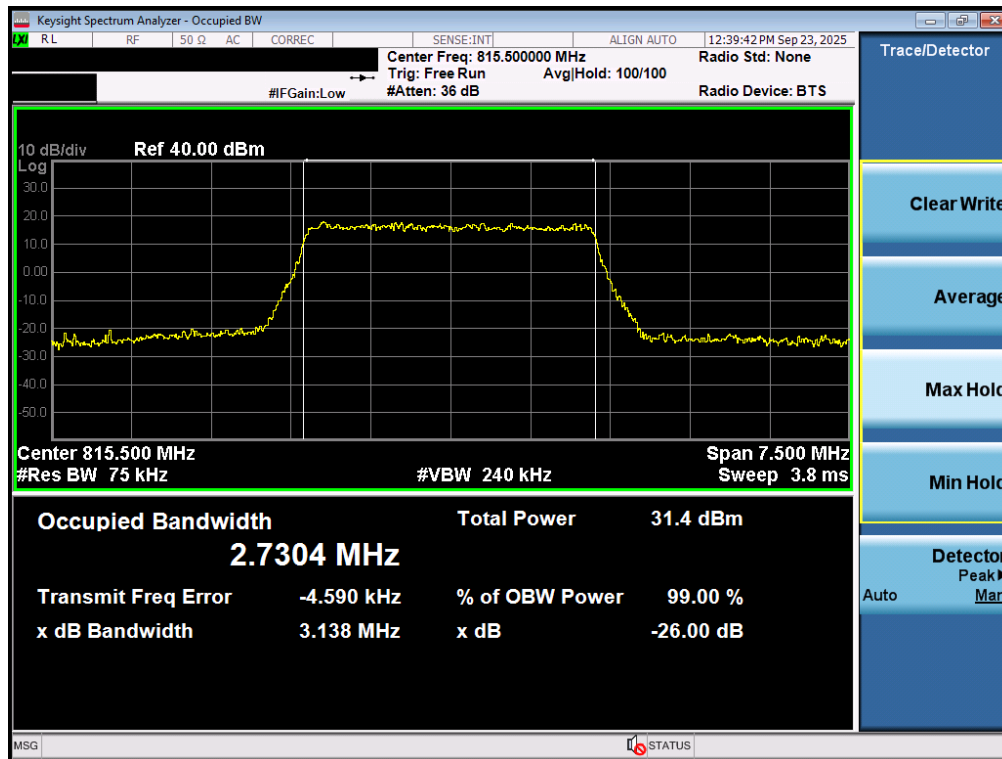


Plot 7-7. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM Low Channel - Full RB)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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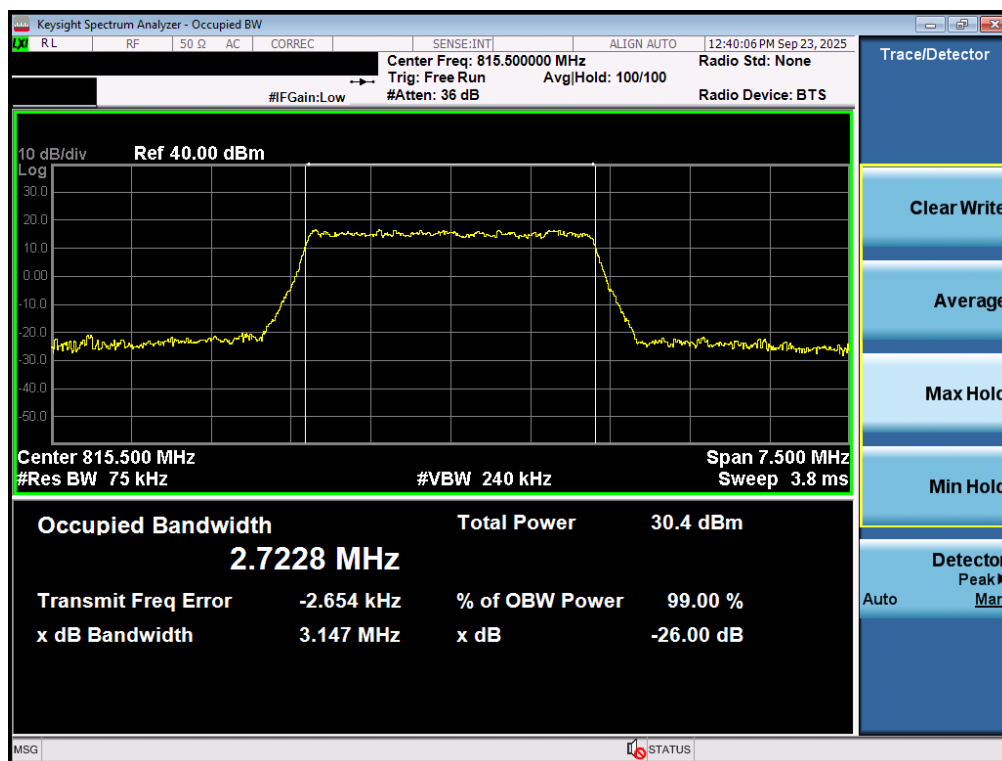


Plot 7-9. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel- Full RB)

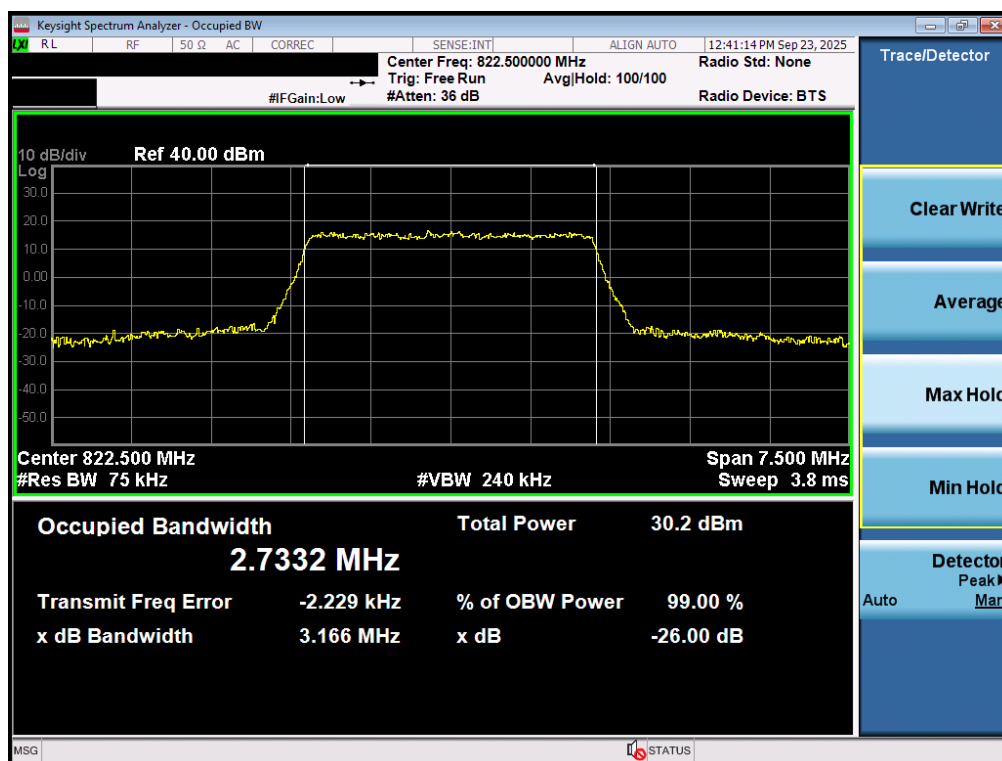


Plot 7-10. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 26 of 91

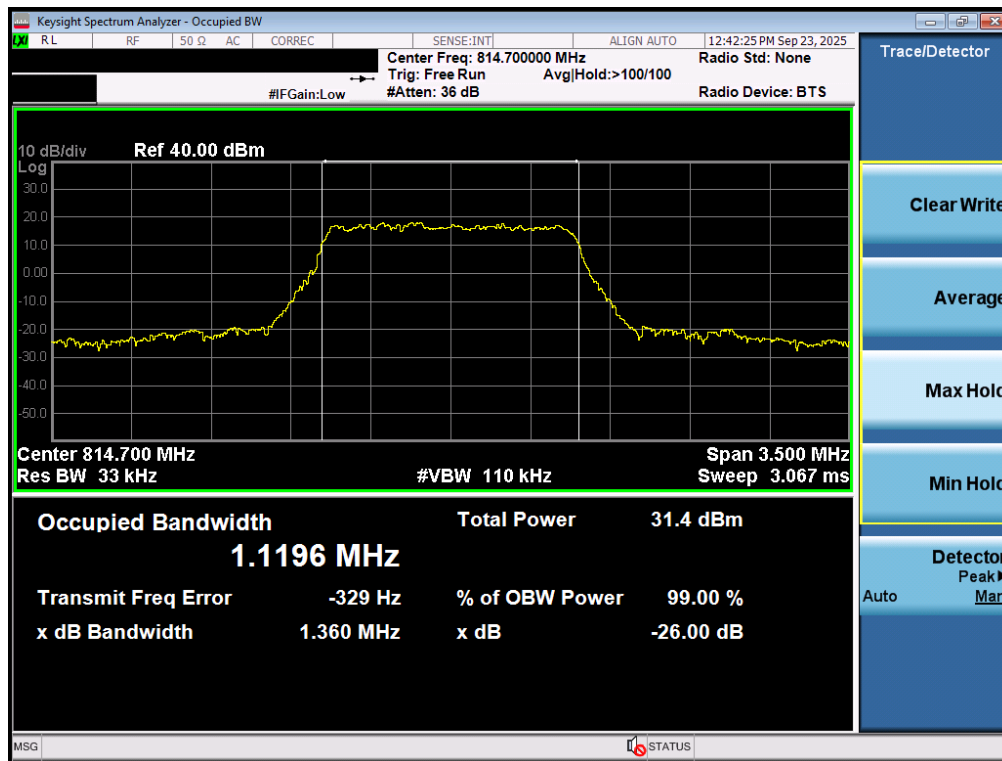


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)



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

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 27 of 91

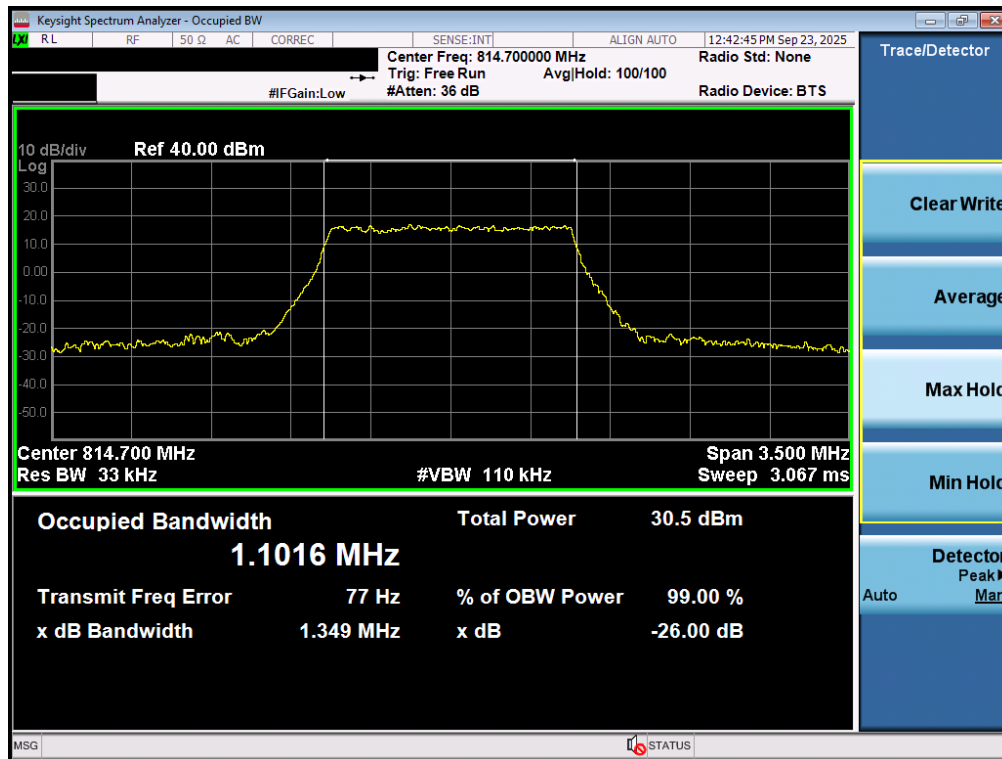


Plot 7-13. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK Low Channel- Full RB)

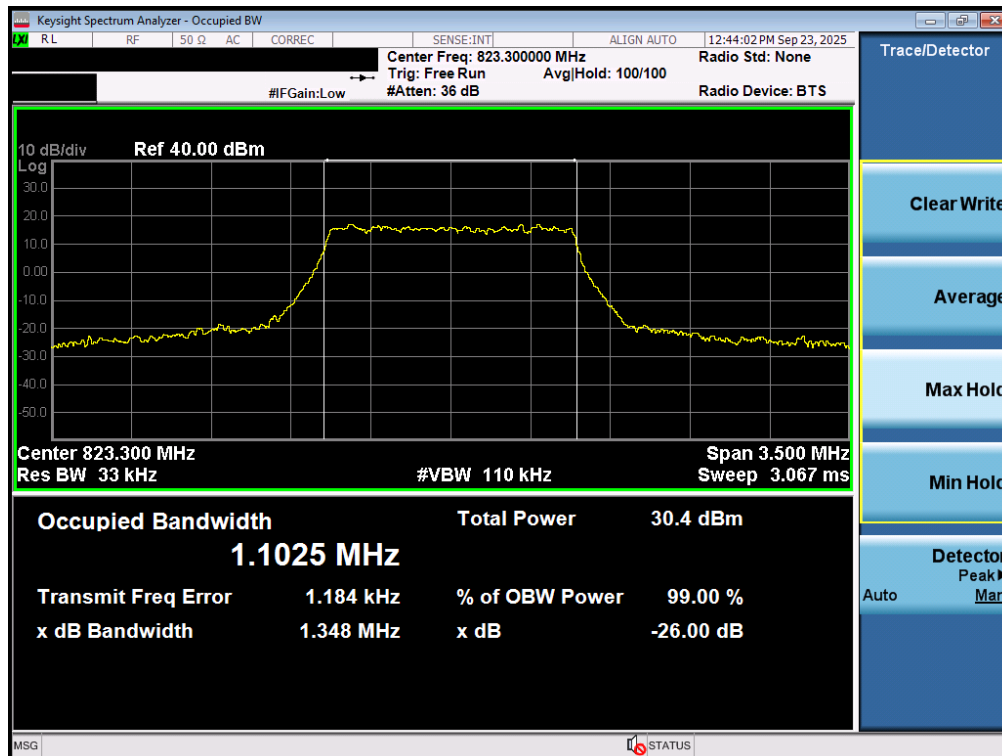


Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 28 of 91



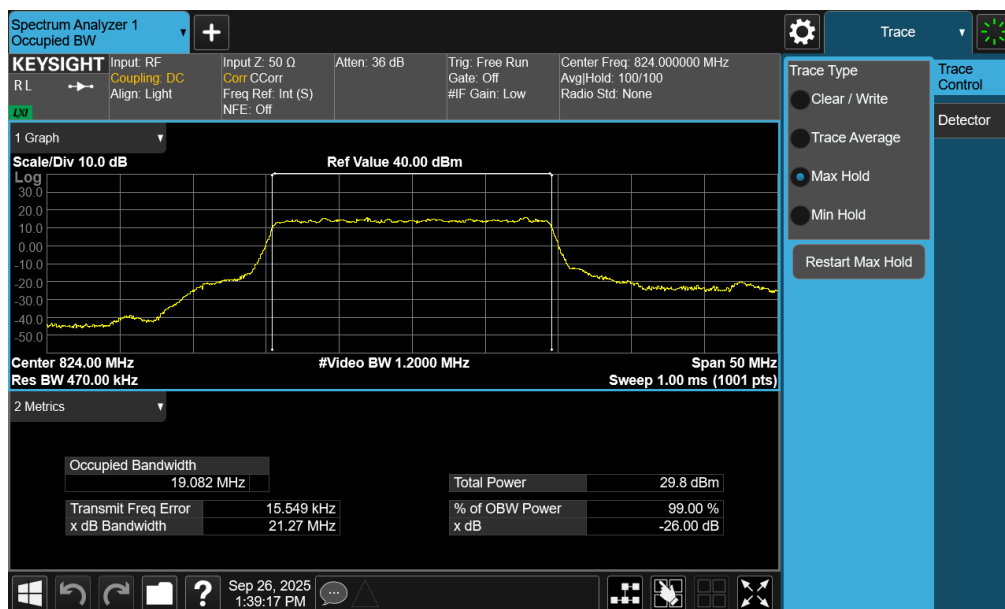
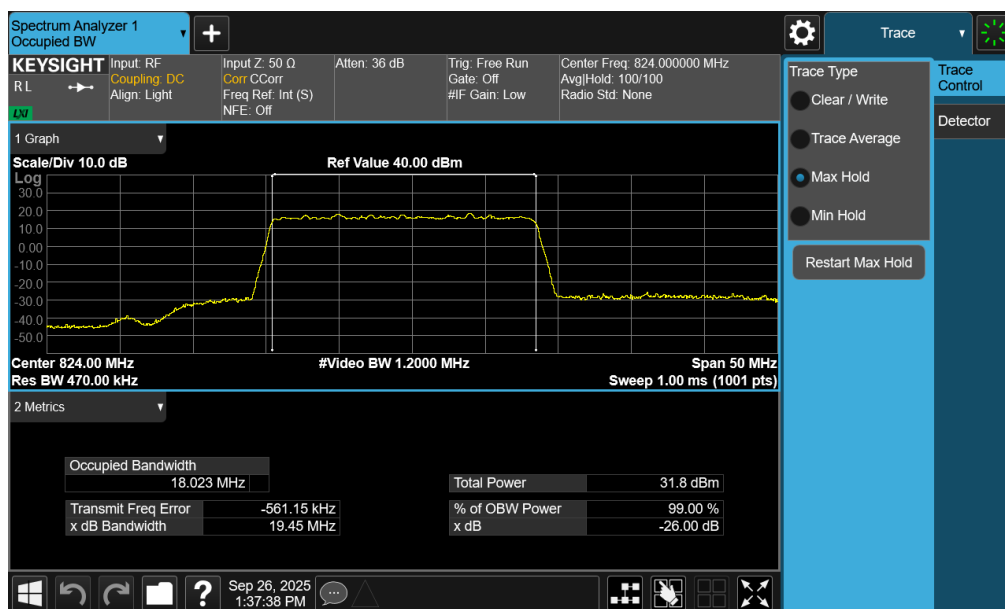
Plot 7-15. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



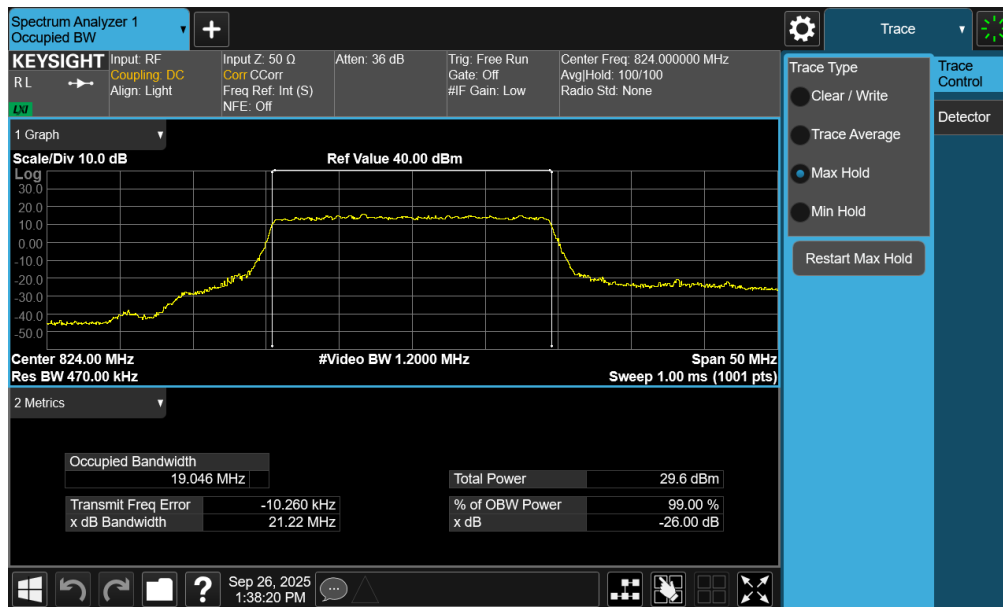
Plot 7-16. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 29 of 91

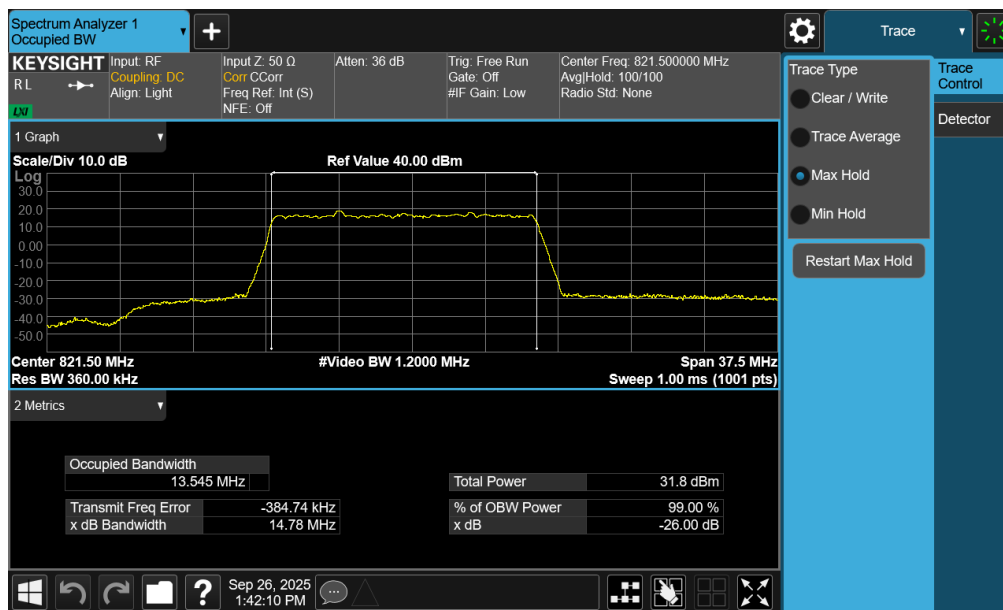
NR Band n26 - Ant 1



FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 30 of 91

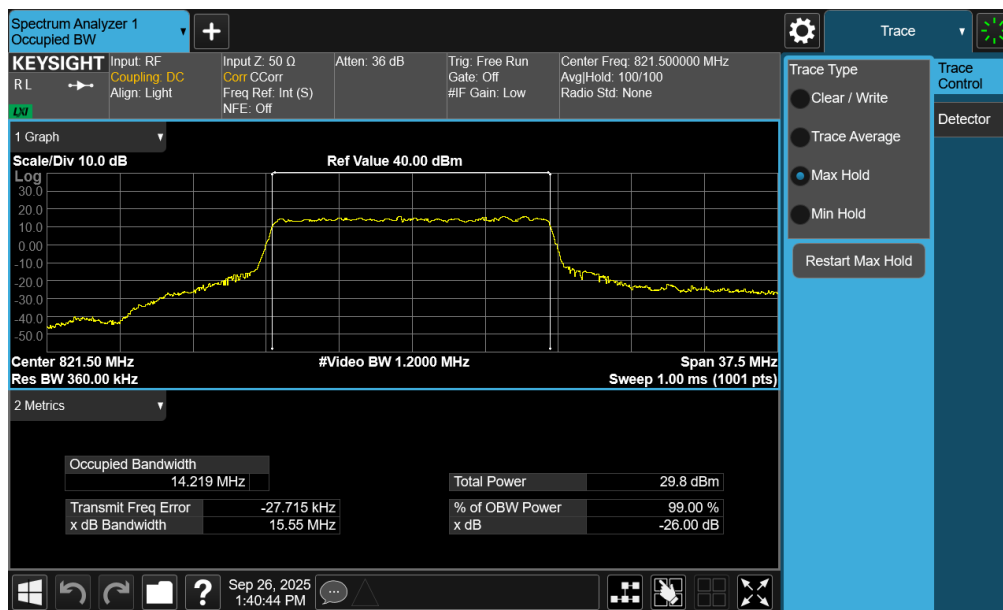
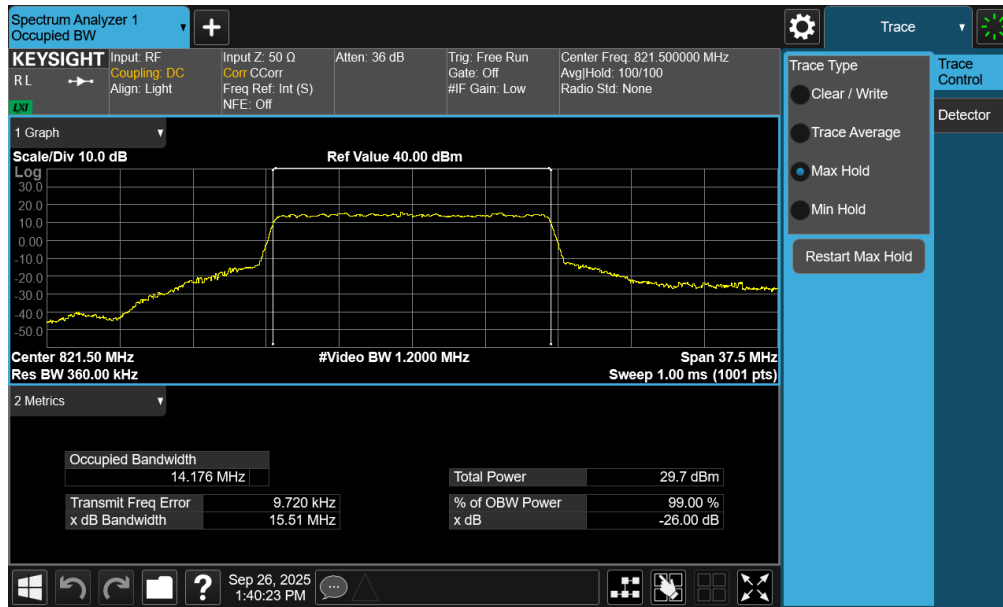


Plot 7-19. Occupied Bandwidth Plot (NR Band n26 - 20MHz 16-QAM - Full RB)

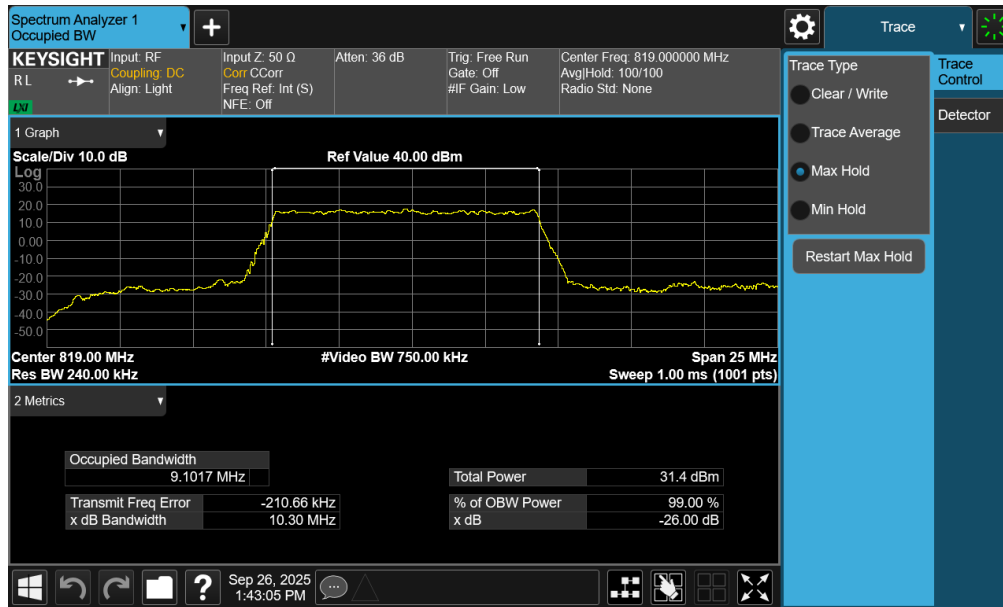


Plot 7-20. Occupied Bandwidth Plot (NR Band n26 - 15MHz $\pi/2$ BPSK - Full RB)

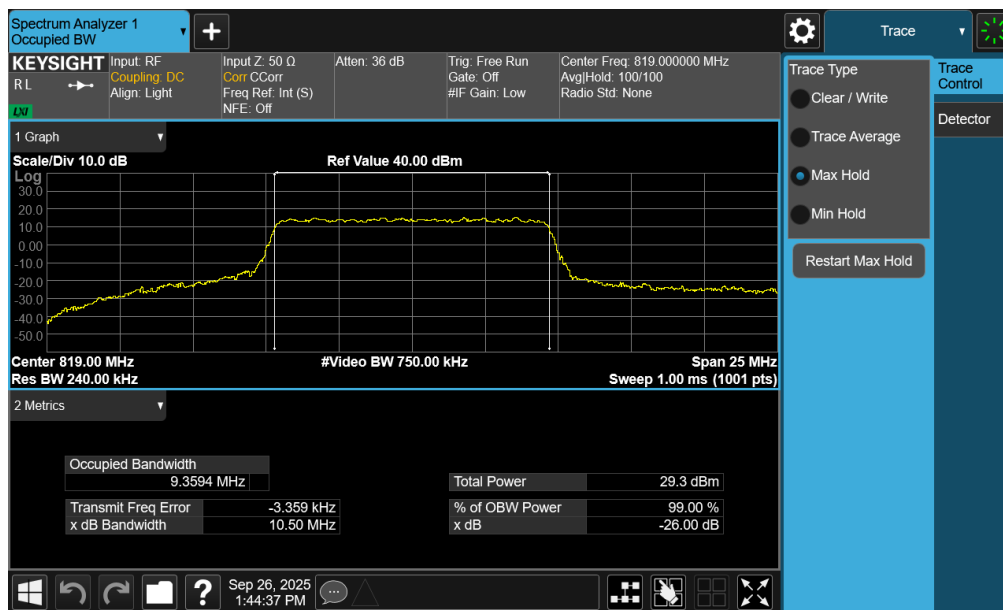
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 31 of 91



FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 32 of 91

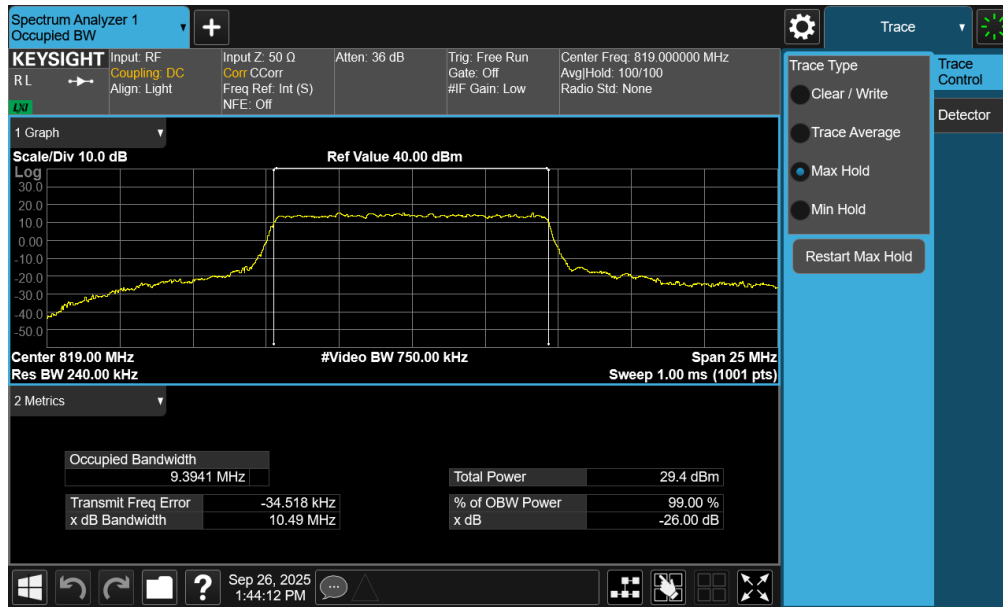


Plot 7-23. Occupied Bandwidth Plot (NR Band n26 - 10MHz $\pi/2$ BPSK - Full RB)

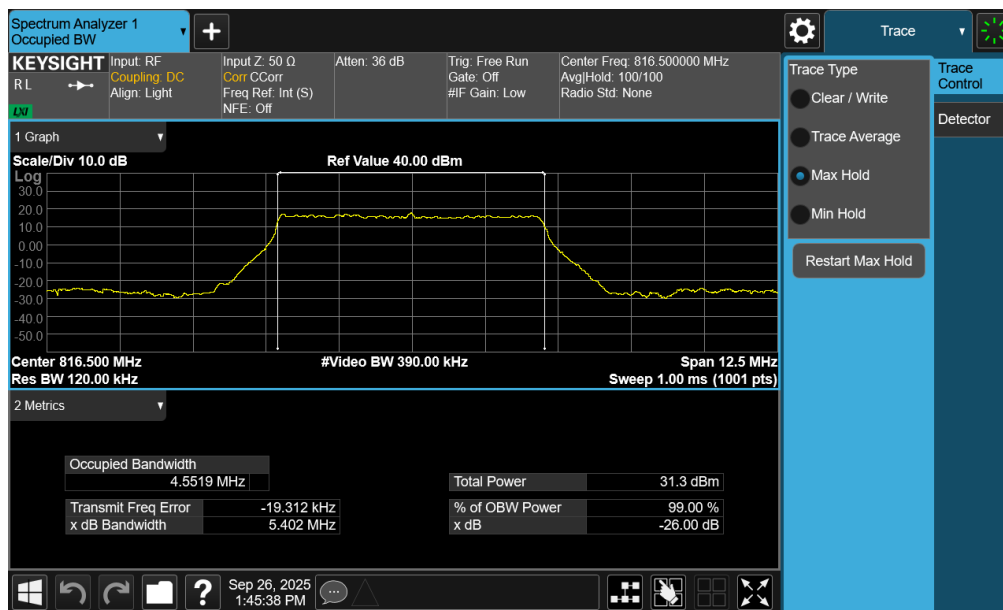


Plot 7-24. Occupied Bandwidth Plot (NR Band n26 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 33 of 91

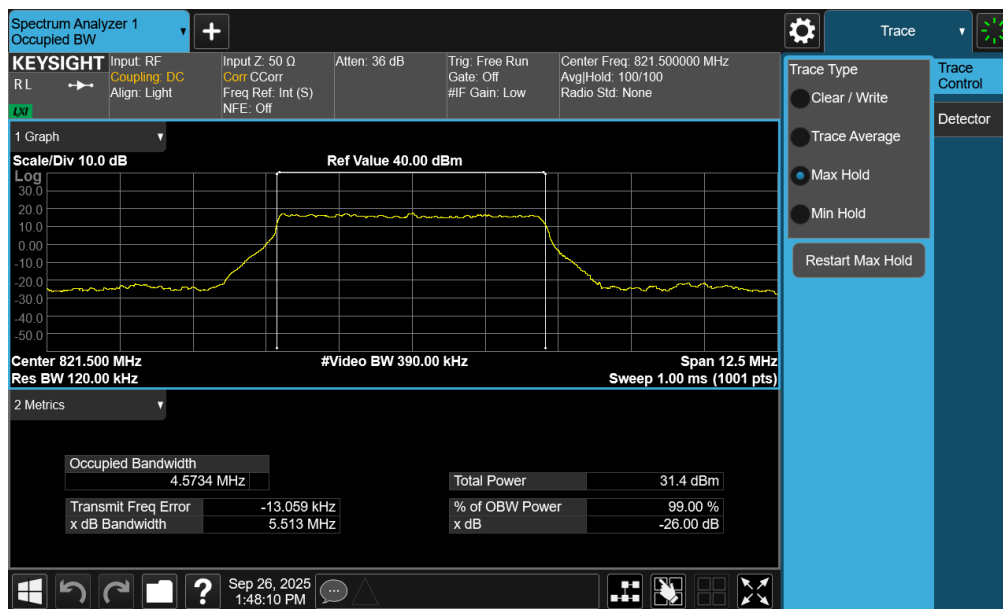


Plot 7-25. Occupied Bandwidth Plot (NR Band n26 - 10MHz 16-QAM - Full RB)

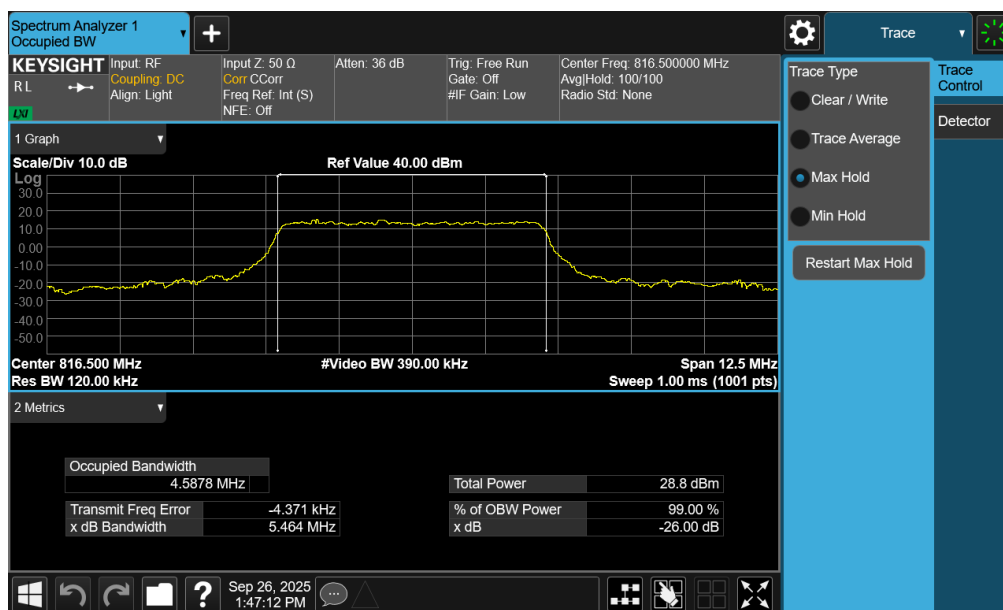


Plot 7-26. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK Low Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 34 of 91

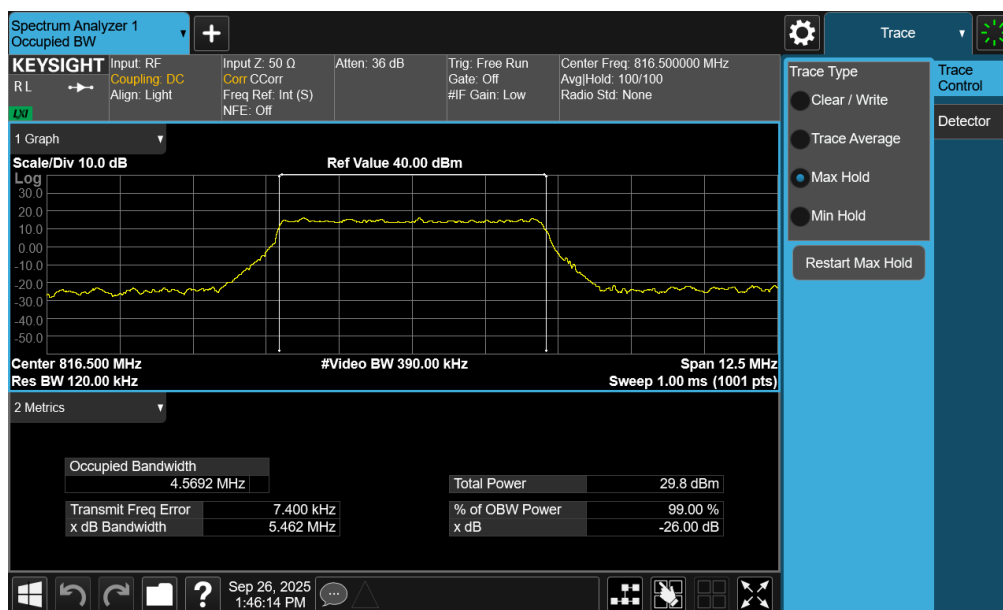
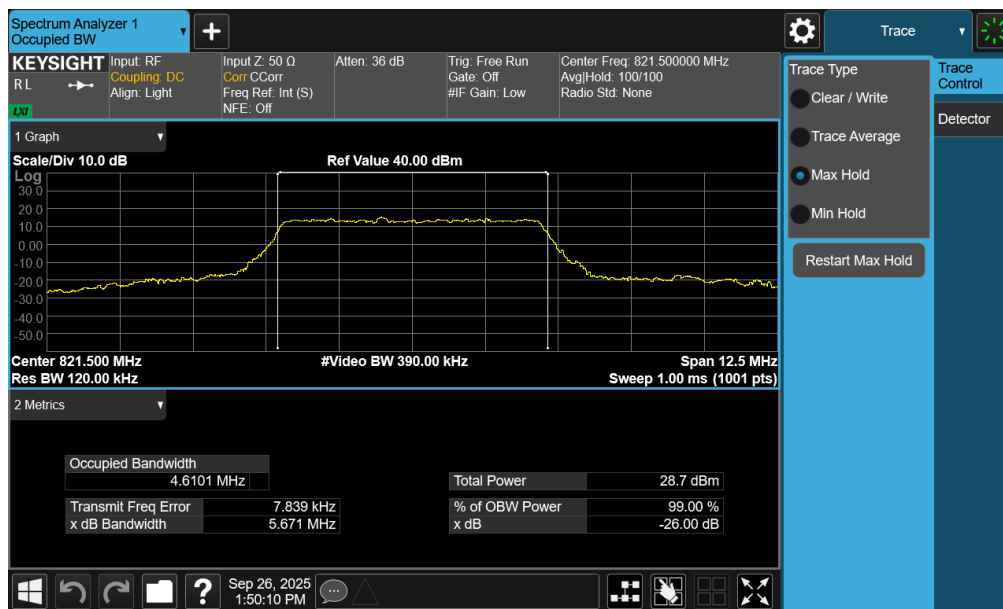


Plot 7-27. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK High Channel - Full RB)

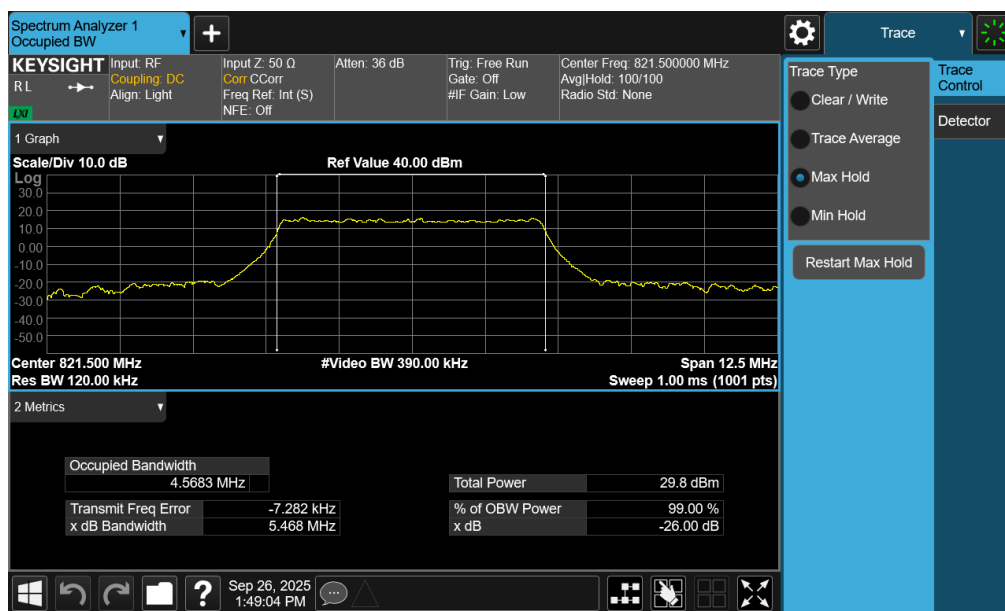


Plot 7-28. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK Low Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 35 of 91



FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 36 of 91



Plot 7-31. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM High Channel - Full RB)

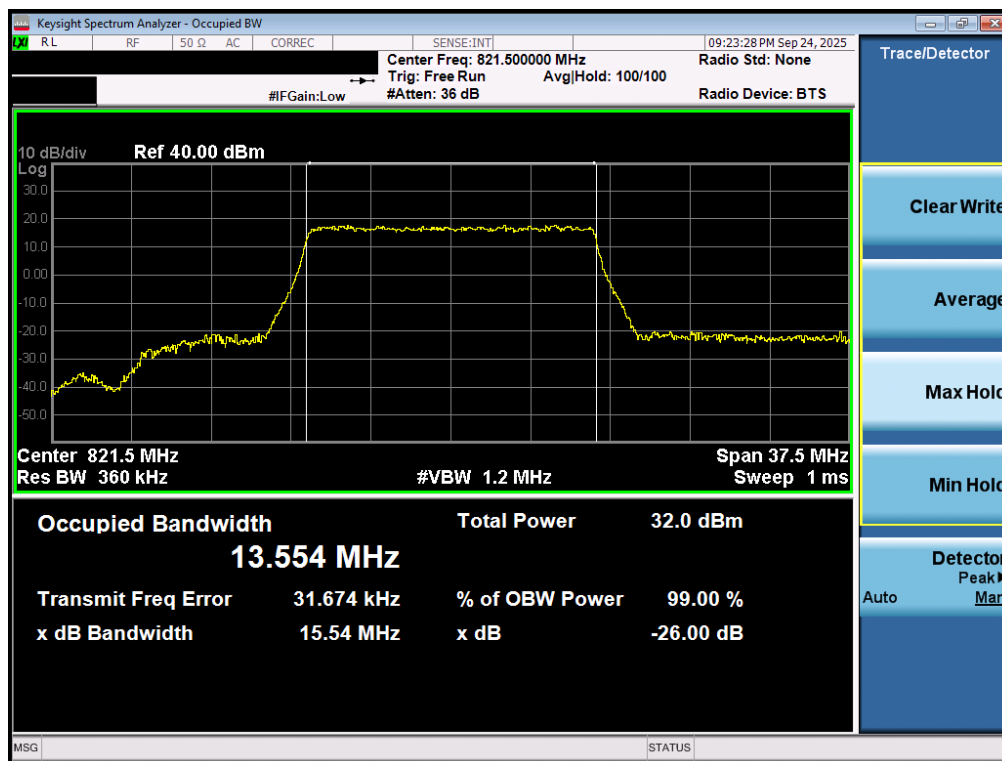
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 37 of 91

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B26	15 MHz	QPSK	13.55
		16QAM	13.56
	10 MHz	QPSK	9.09
		16QAM	9.04
	5 MHz	QPSK	4.57
		QPSK	4.57
		16QAM	4.54
		16QAM	4.55
	3 MHz	QPSK	2.73
		QPSK	2.73
		16QAM	2.76
		16QAM	2.75
	1.4 MHz	QPSK	1.11
		QPSK	1.11
		16QAM	1.12
		16QAM	1.12
	20 MHz	$\pi/2$ BPSK	18.08
		QPSK	19.08
		16QAM	19.04
	15 MHz	$\pi/2$ BPSK	13.54
		QPSK	14.18
		16QAM	14.23
NR-n26	10 MHz	$\pi/2$ BPSK	9.09
		QPSK	9.38
		16QAM	9.37
	5 MHz	$\pi/2$ BPSK	4.54
		$\pi/2$ BPSK	4.57
		QPSK	4.58
		QPSK	4.61
		16QAM	4.57
		16QAM	4.57

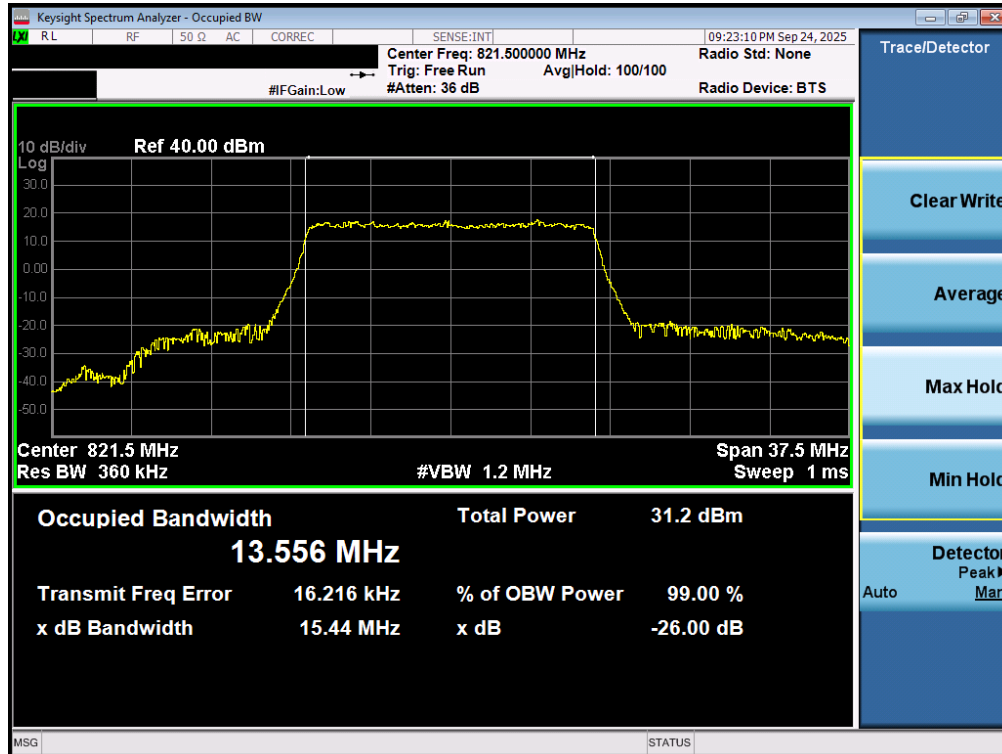
Table 7-7. Occupied Bandwidth Results – Ant 2

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 38 of 91

LTE Band 26 – Ant 2

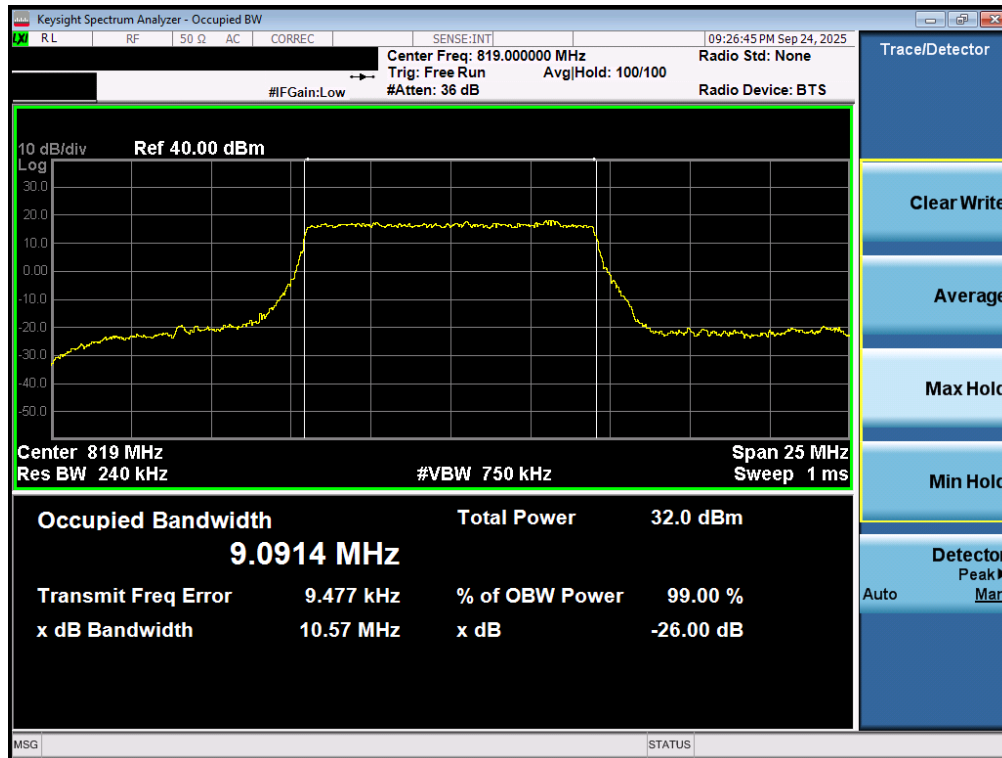


Plot 7-32. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB)



Plot 7-33. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 39 of 91



Plot 7-34. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)

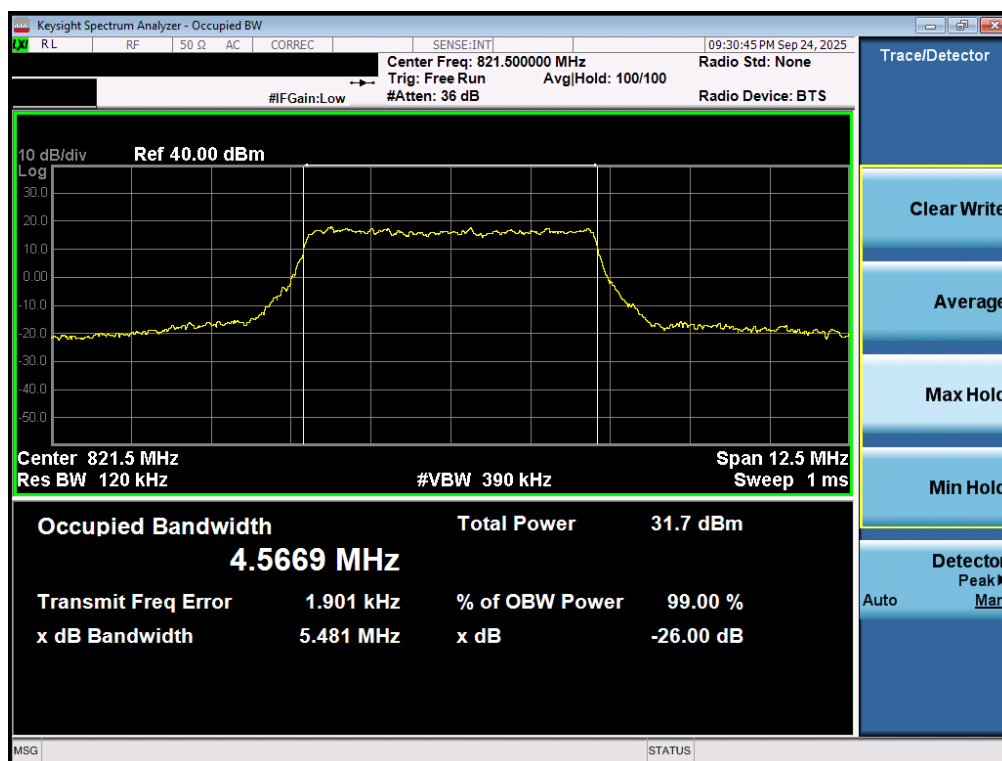


Plot 7-35. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 40 of 91

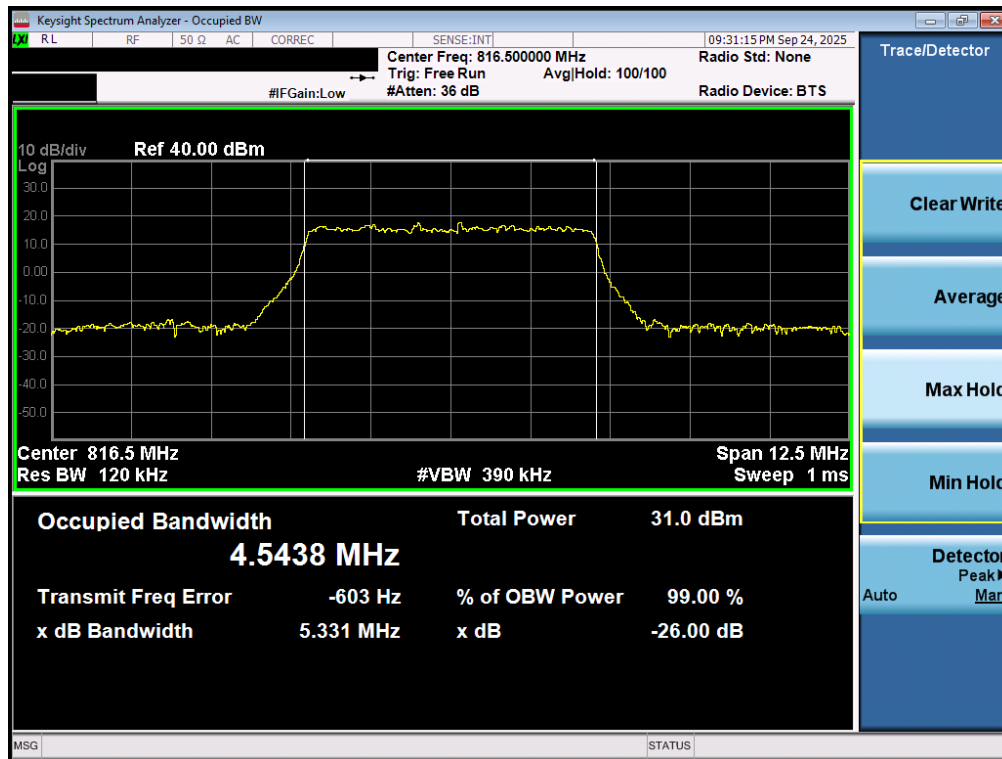


Plot 7-36. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel- Full RB)



Plot 7-37. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 41 of 91



Plot 7-38. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM Low Channel - Full RB)

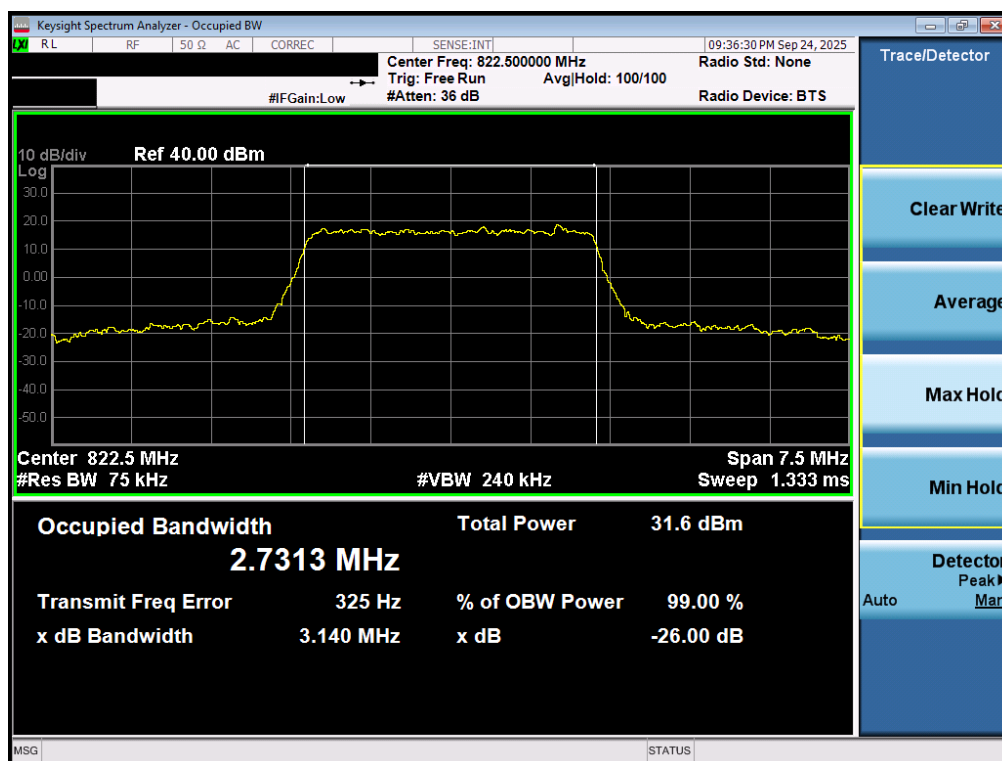


Plot 7-39. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 42 of 91

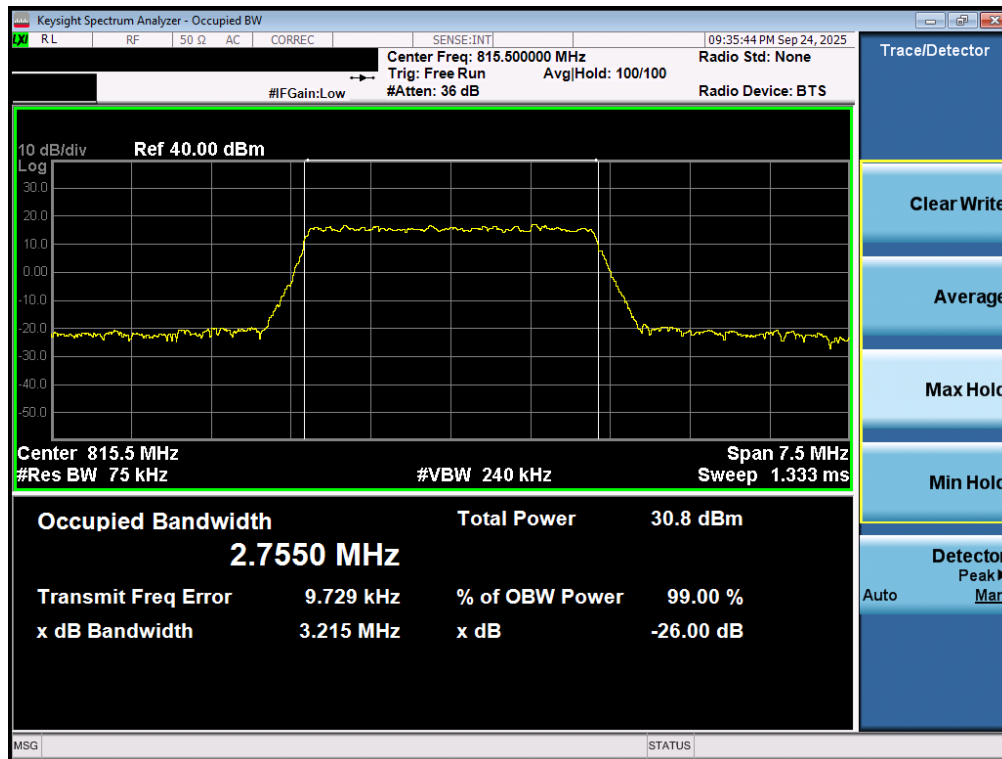


Plot 7-40. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel- Full RB)



Plot 7-41. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 43 of 91

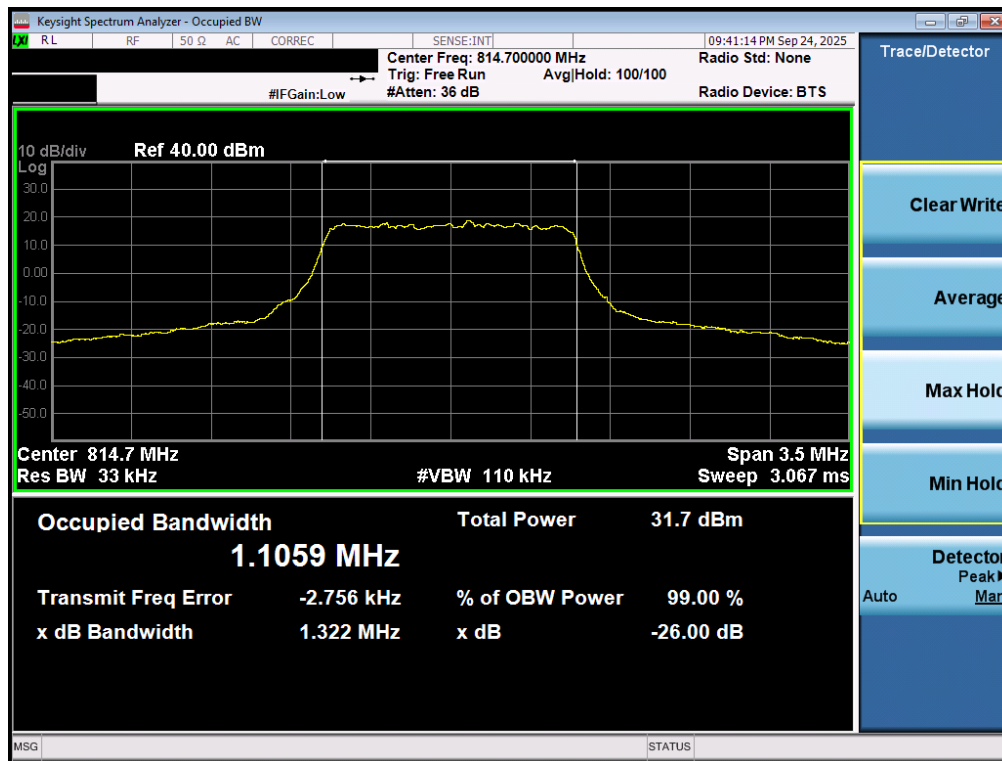


Plot 7-42. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)

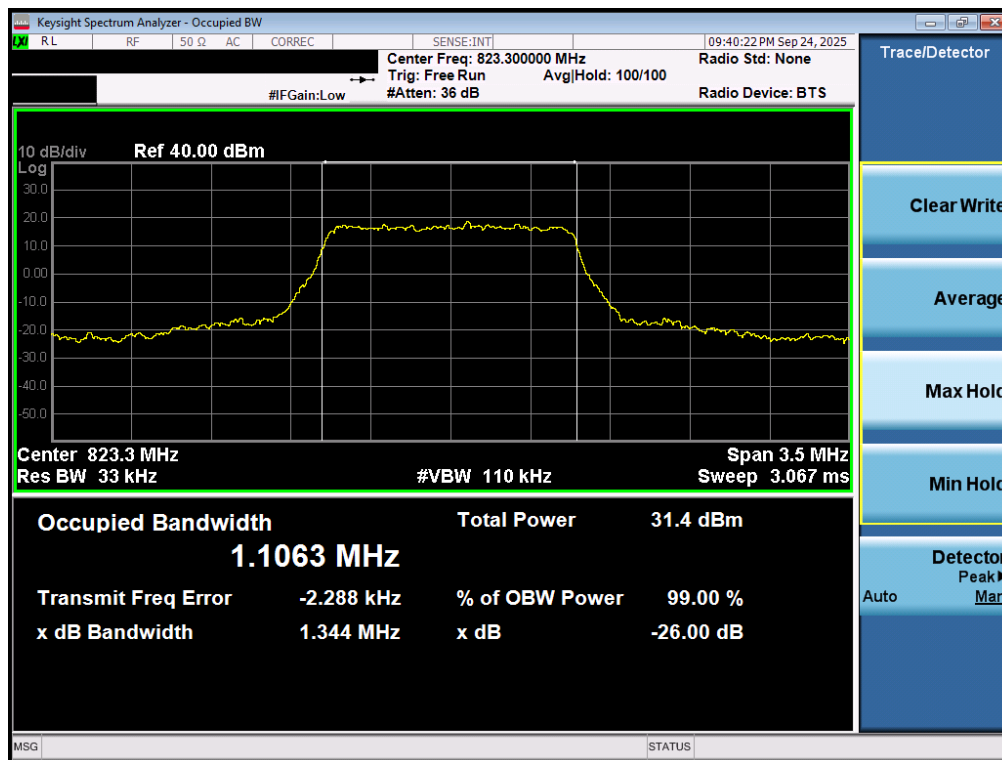


Plot 7-43. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 44 of 91

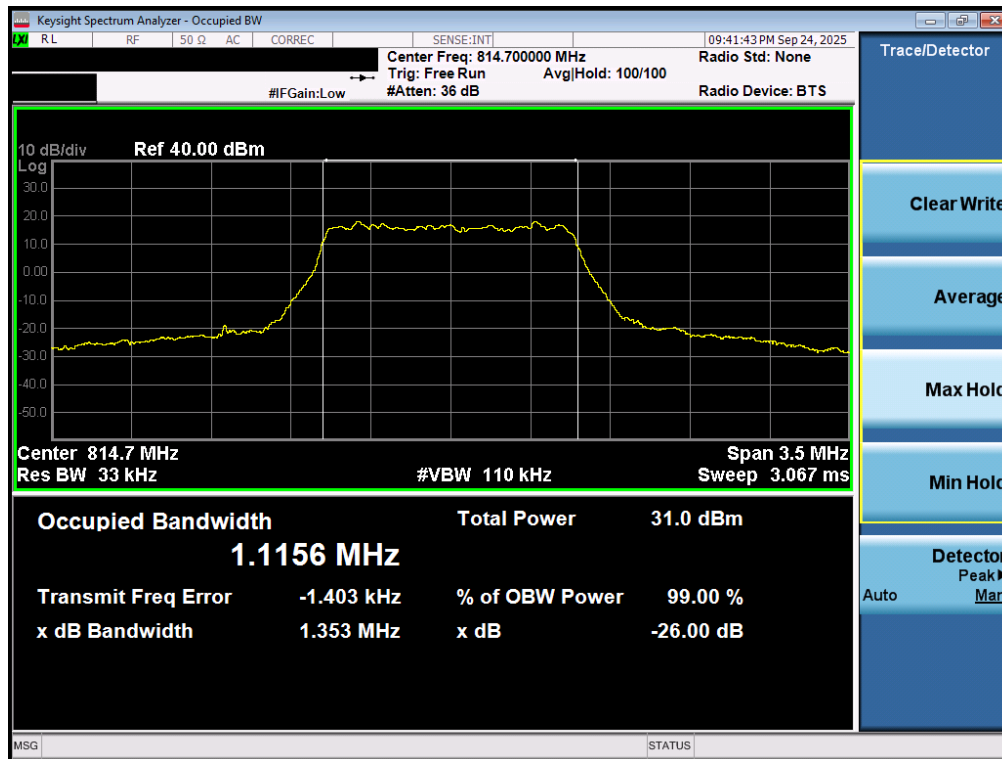


Plot 7-44. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK Low Channel- Full RB)

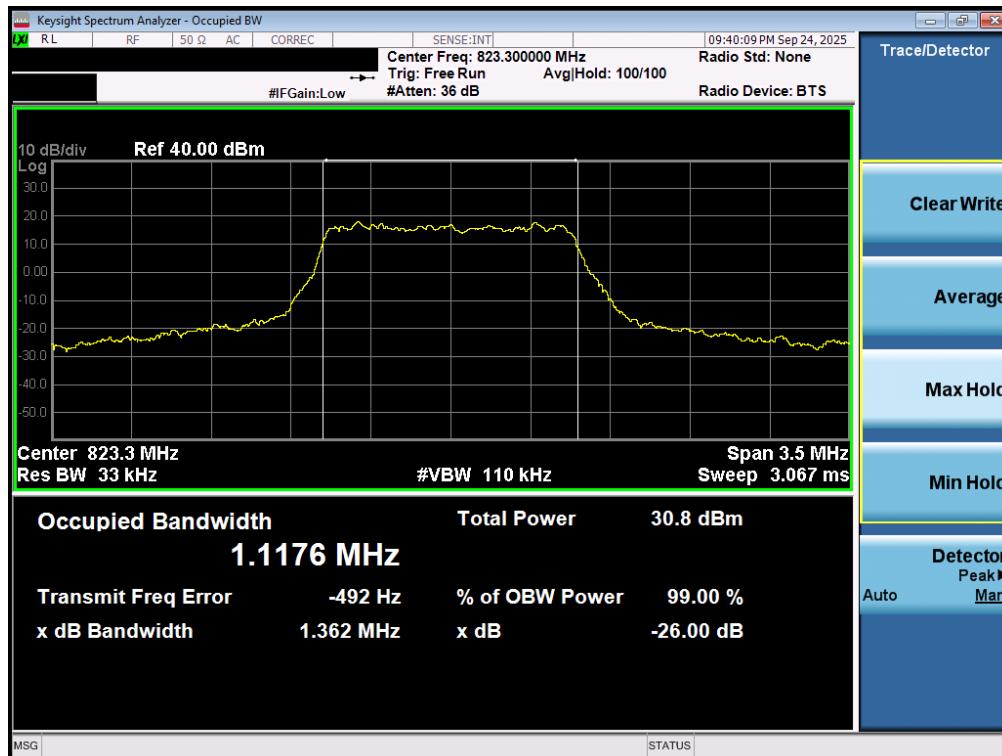


Plot 7-45. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 45 of 91



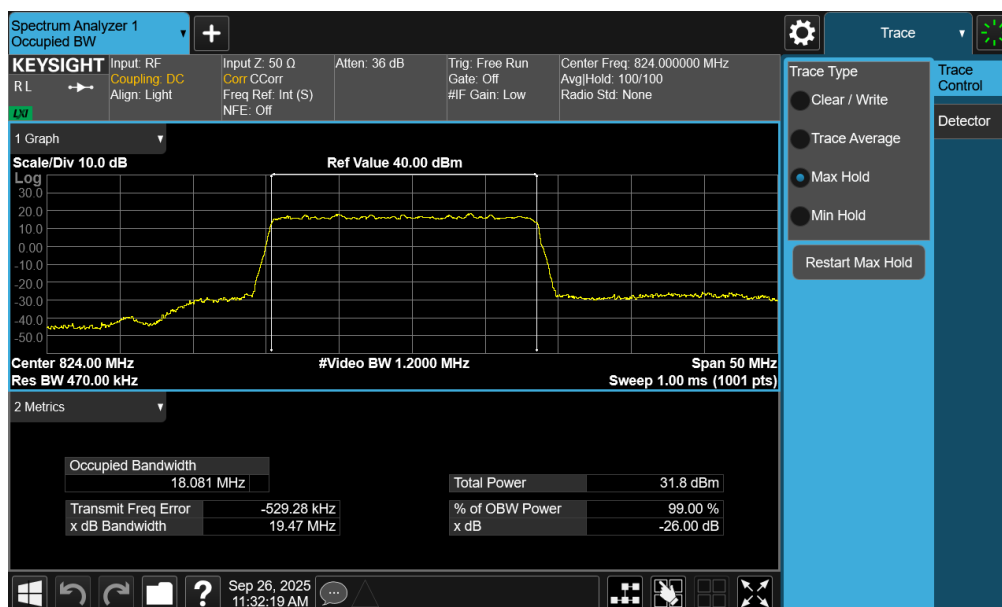
Plot 7-46. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



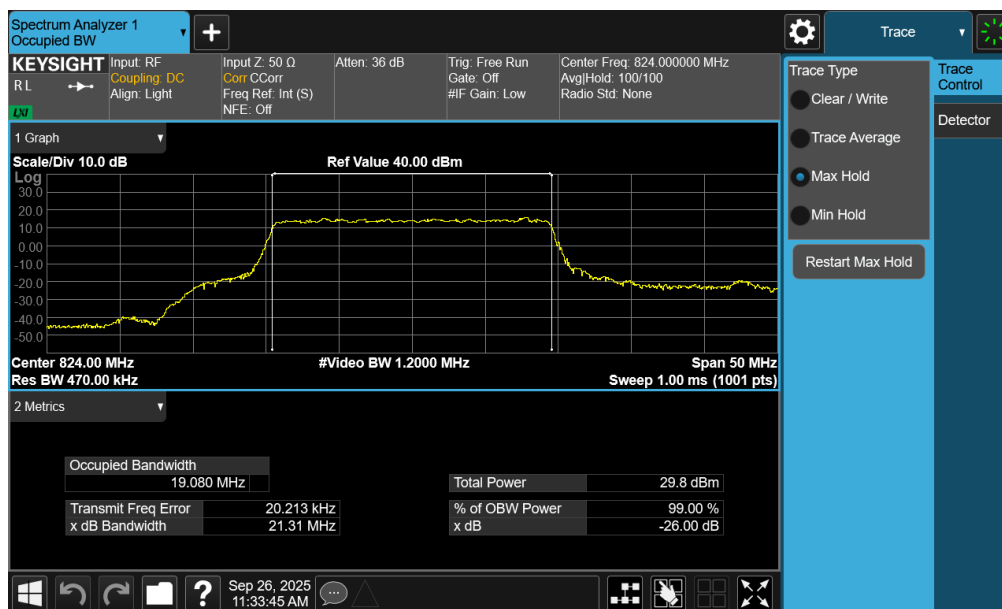
Plot 7-47. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 46 of 91

NR Band n26 - Ant 2

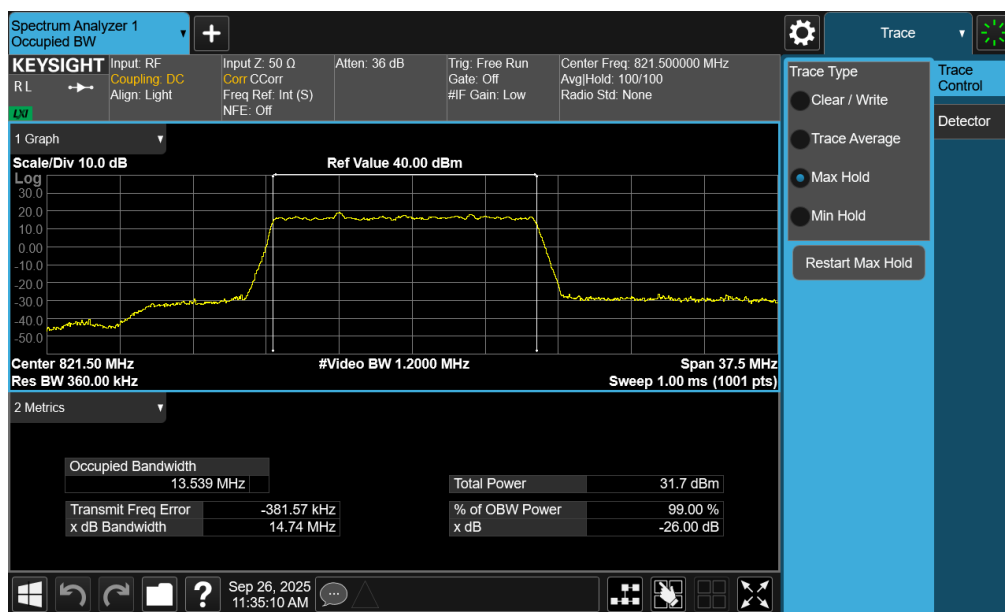
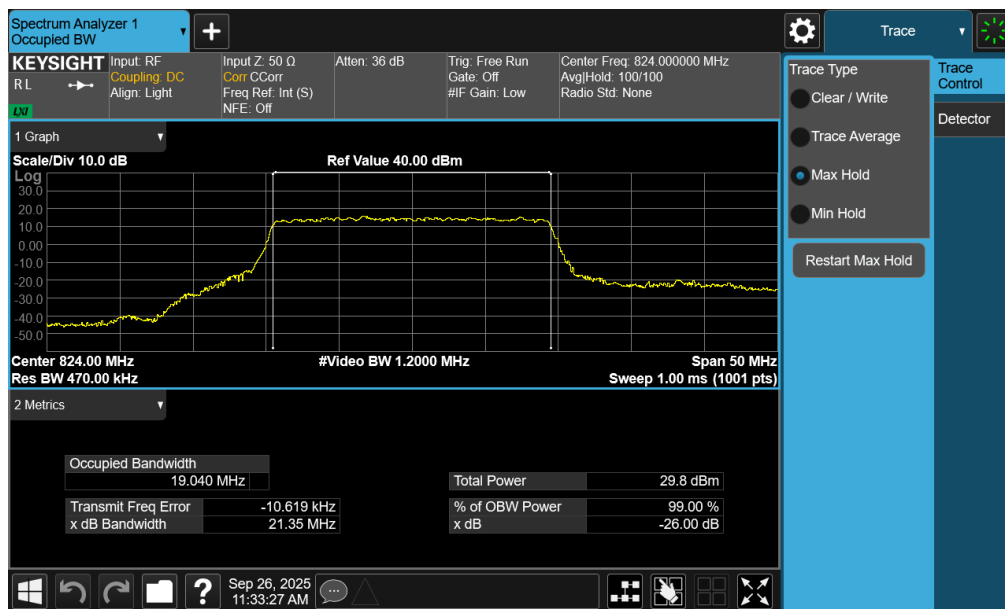


Plot 7-48. Occupied Bandwidth Plot (NR Band n26 - 20MHz $\pi/2$ BPSK - Full RB)

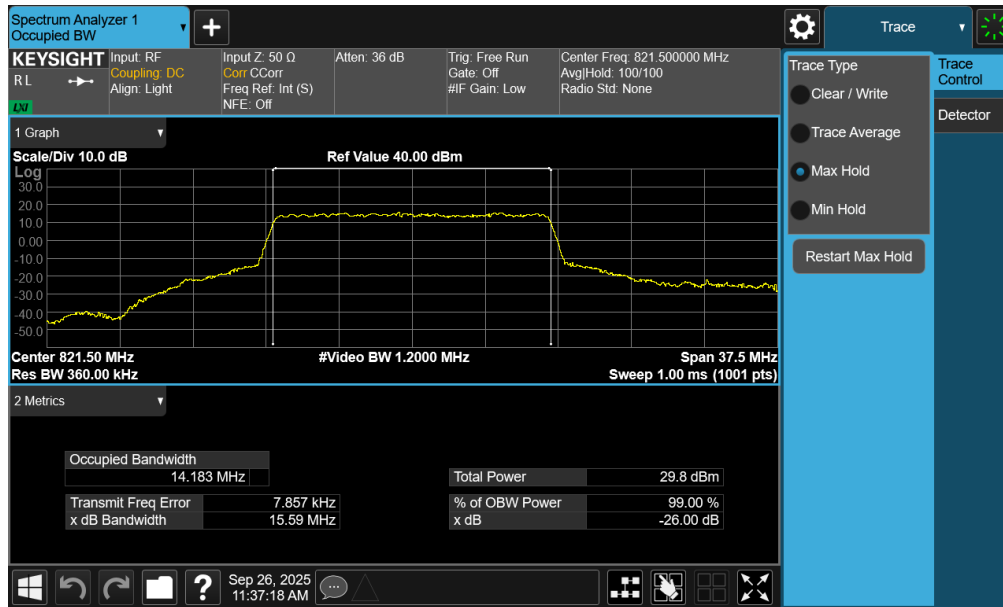


Plot 7-49. Occupied Bandwidth Plot (NR Band n26 - 20MHz QPSK - Full RB)

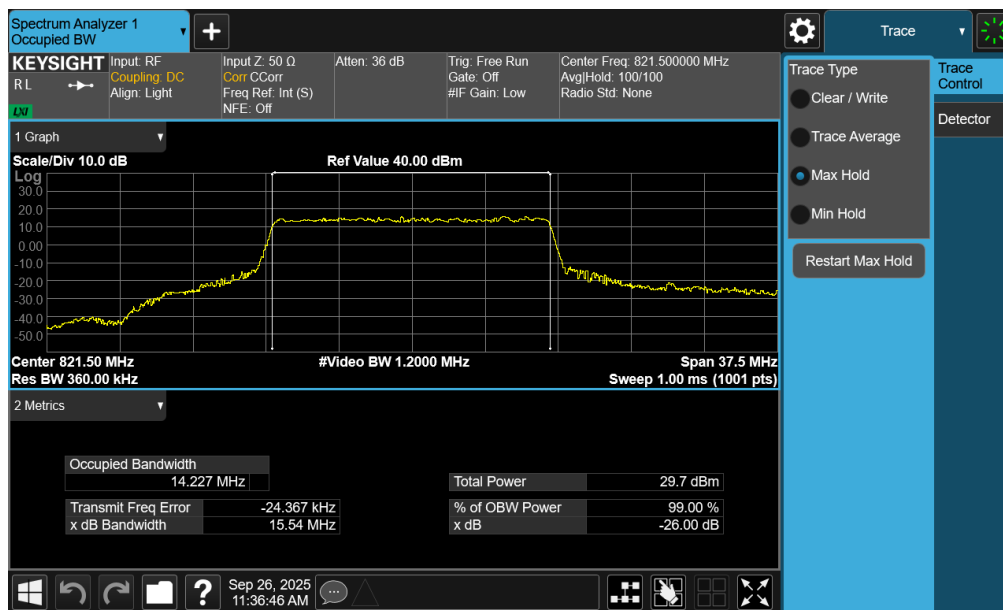
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 47 of 91



FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 48 of 91

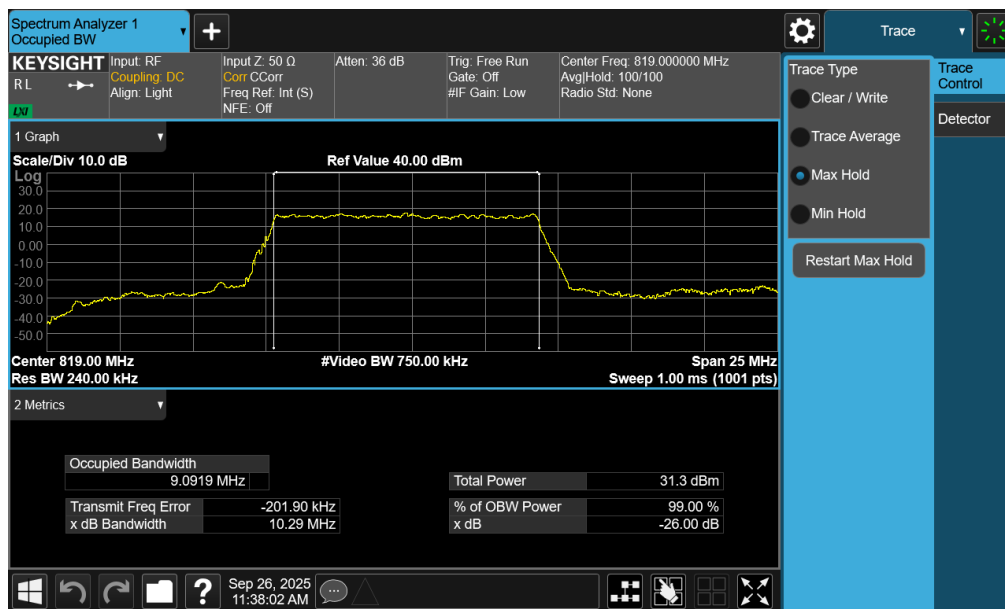


Plot 7-52. Occupied Bandwidth Plot (NR Band n26 - 15MHz QPSK - Full RB)

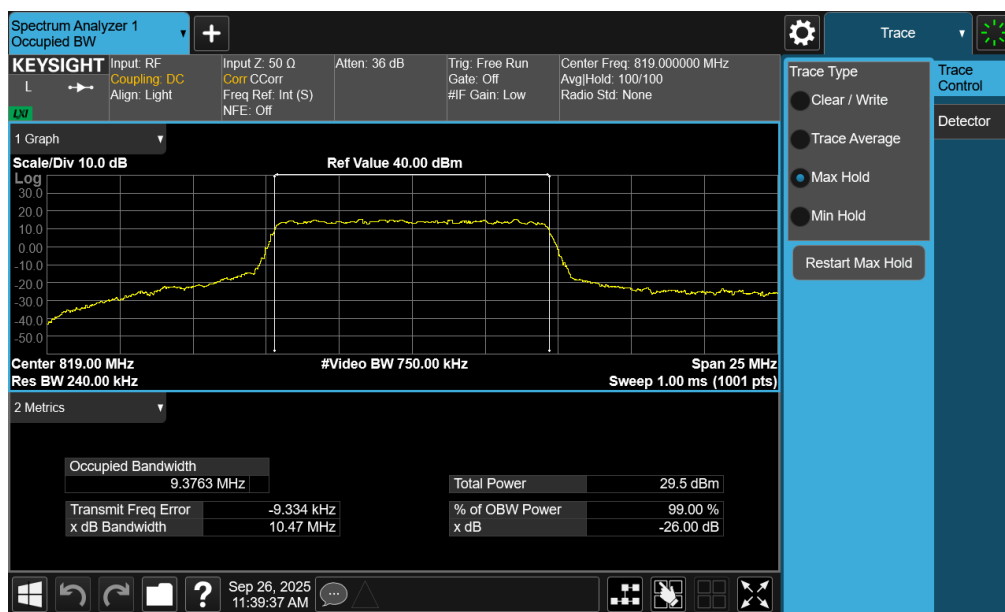


Plot 7-53. Occupied Bandwidth Plot (NR Band n26 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 49 of 91

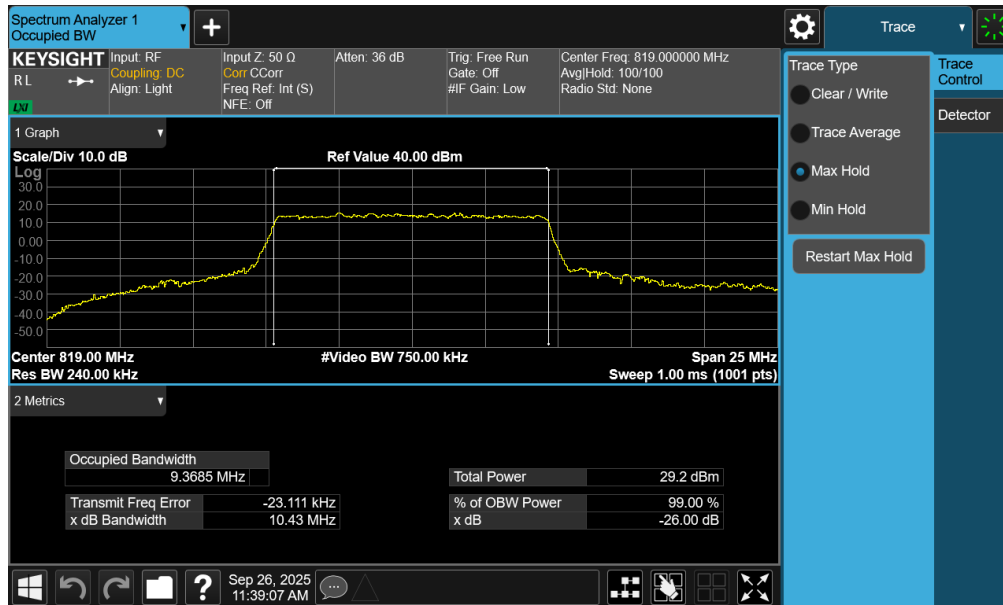


Plot 7-54. Occupied Bandwidth Plot (NR Band n26 - 10MHz $\pi/2$ BPSK - Full RB)

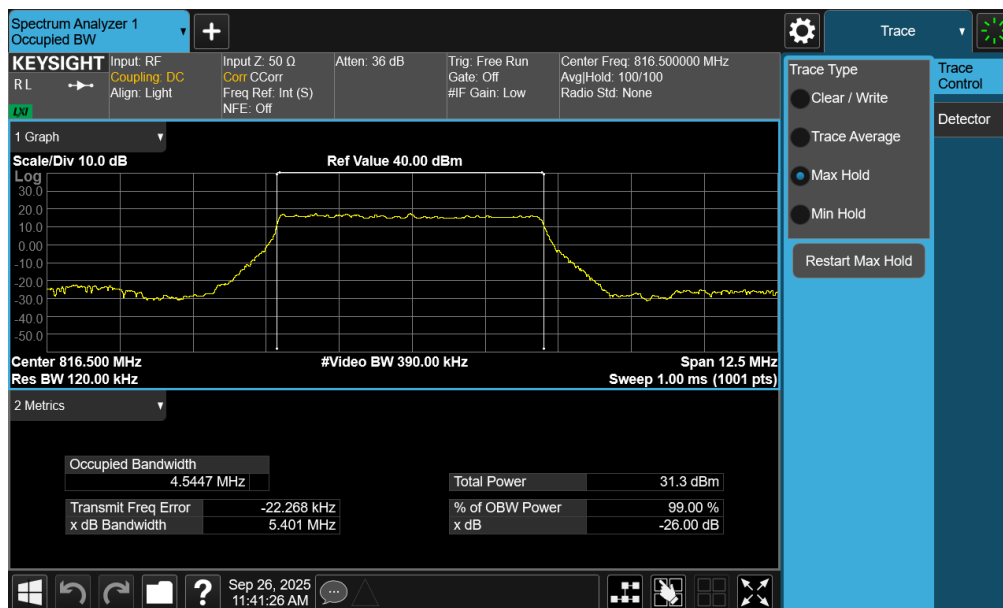


Plot 7-55. Occupied Bandwidth Plot (NR Band n26 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 50 of 91

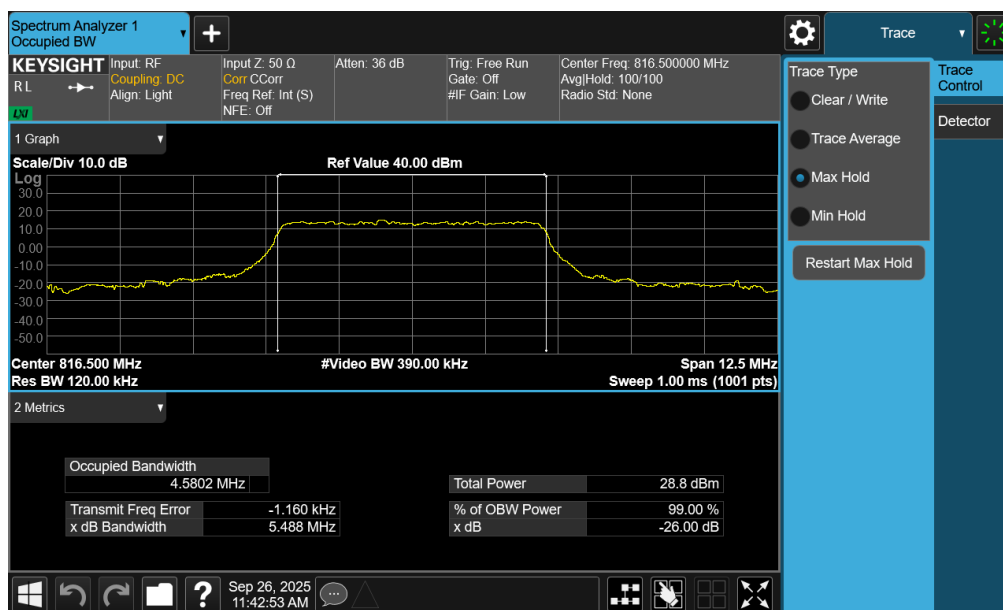
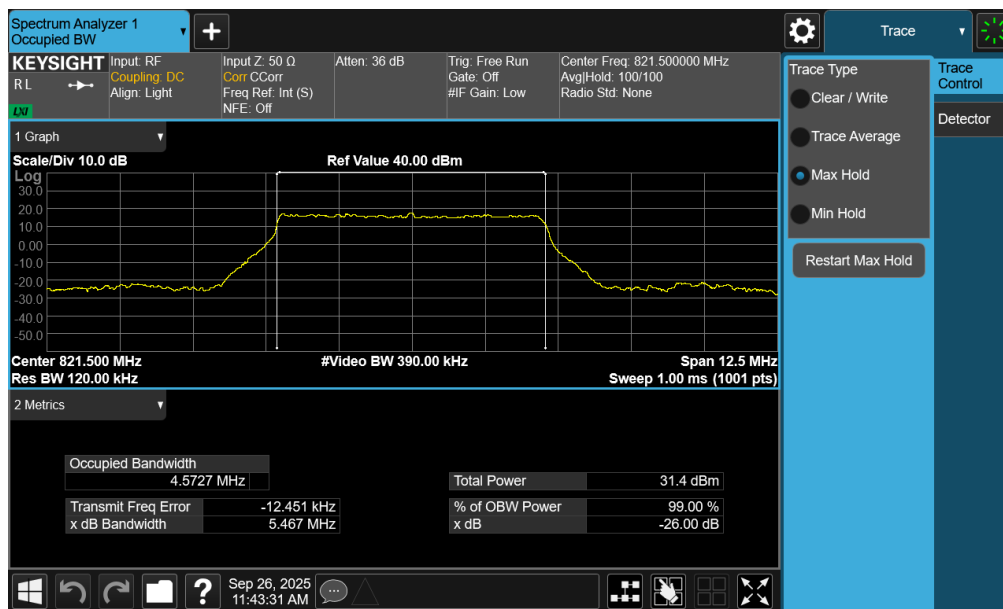


Plot 7-56. Occupied Bandwidth Plot (NR Band n26 - 10MHz 16-QAM - Full RB)

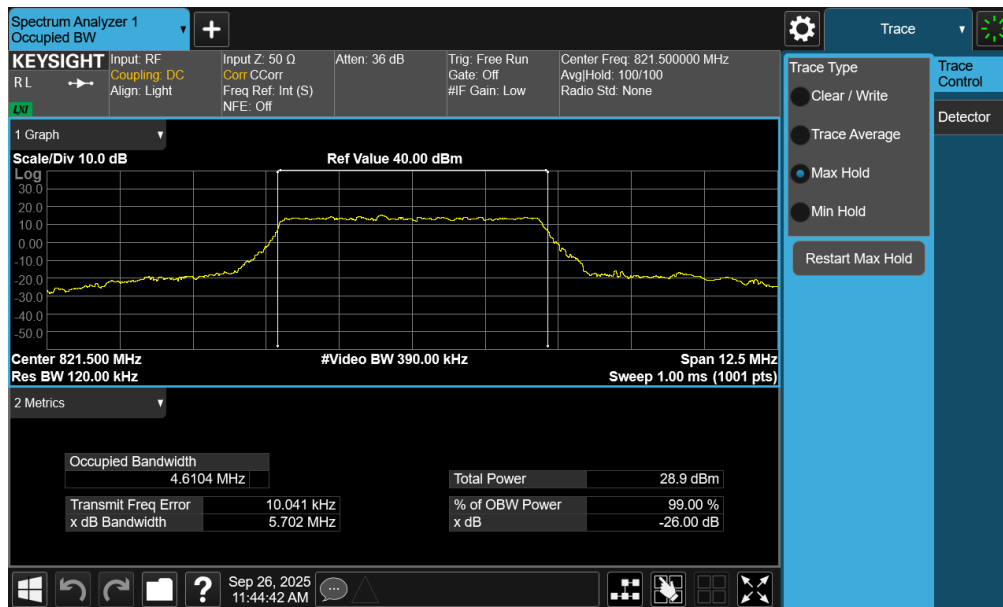


Plot 7-57. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK Low Channel - Full RB)

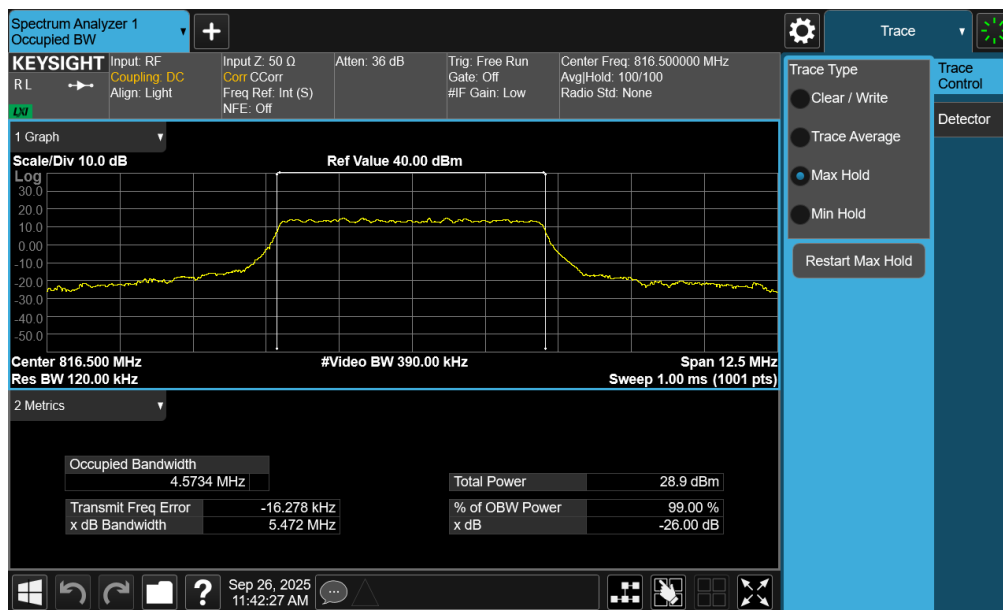
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 51 of 91



FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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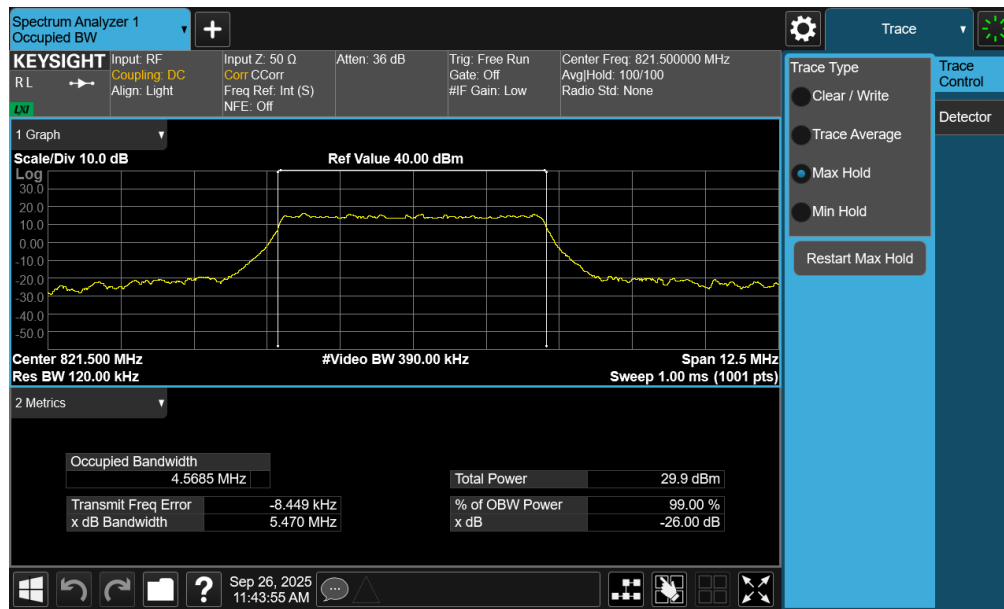


Plot 7-60. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK High Channel - Full RB)



Plot 7-61. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM Low Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 53 of 91



Plot 7-62. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 54 of 91

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.

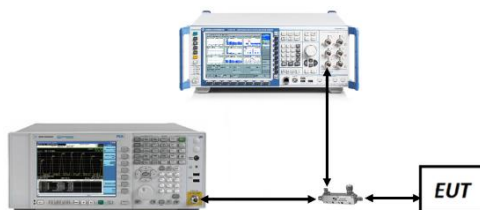


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. 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.
2. 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.

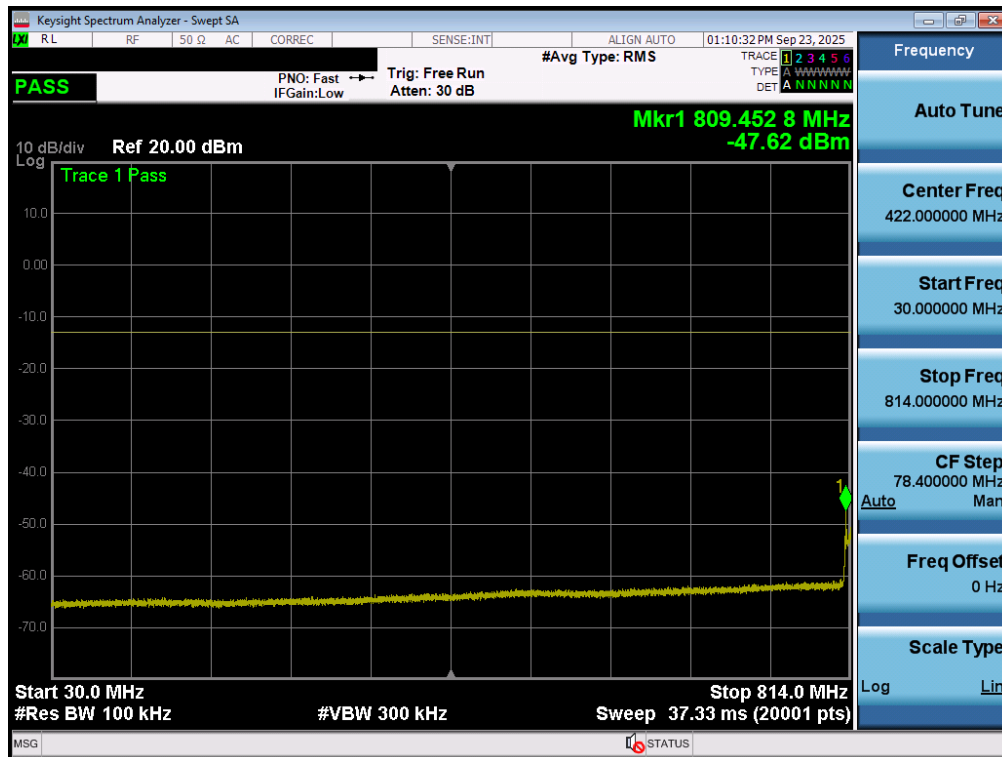
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 55 of 91

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B26	15 MHz	Mid	30.0 - 814.0	-47.62	-13	-34.62
		Mid	824.0 - 1000.0	-39.43	-13	-26.43
		Mid	1000.0 - 10000.0	-42.99	-13	-29.99
NR-n26	20 MHz	Mid	30.0 - 814.0	-46.95	-13	-33.95
		Mid	824.0 - 1000.0	-44.39	-13	-31.39
		Mid	1000.0 - 10000.0	-37.42	-13	-24.42

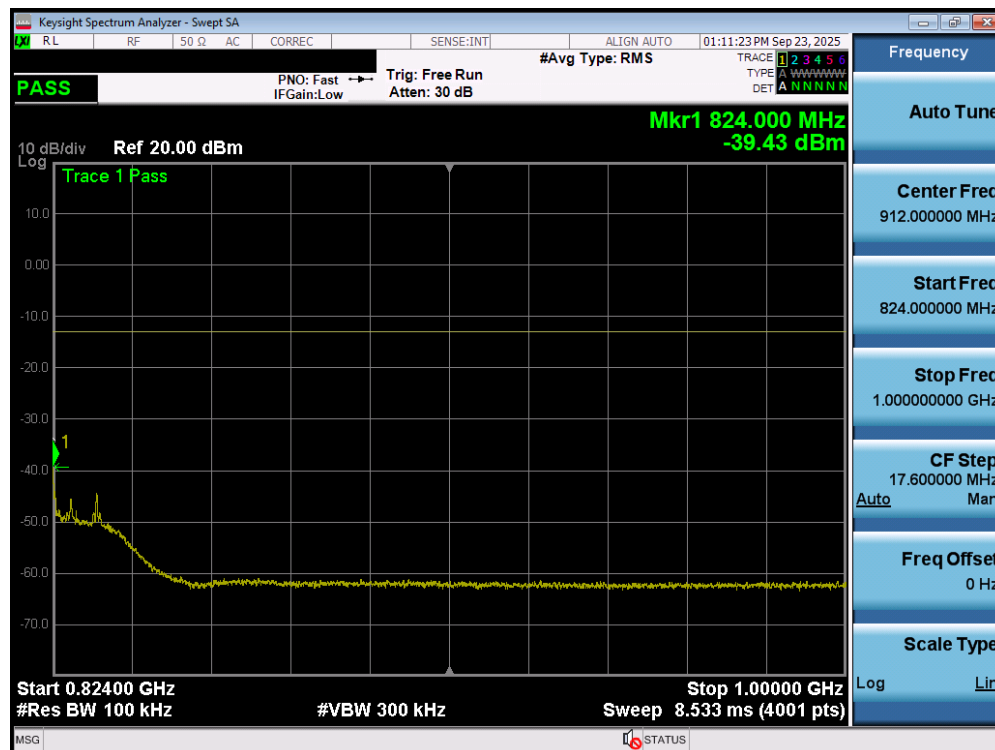
Table 7-8. Conducted Spurious Test Results – Ant 1

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 56 of 91

LTE Band 26 - Ant 1

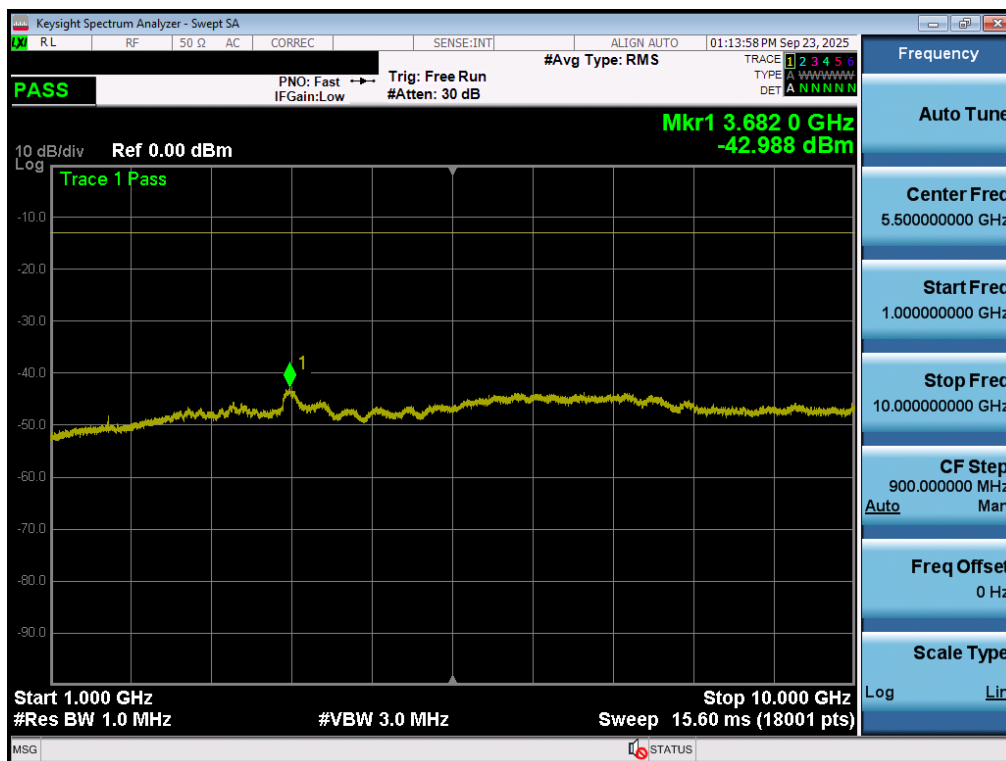


Plot 7-63. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)



Plot 7-64. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

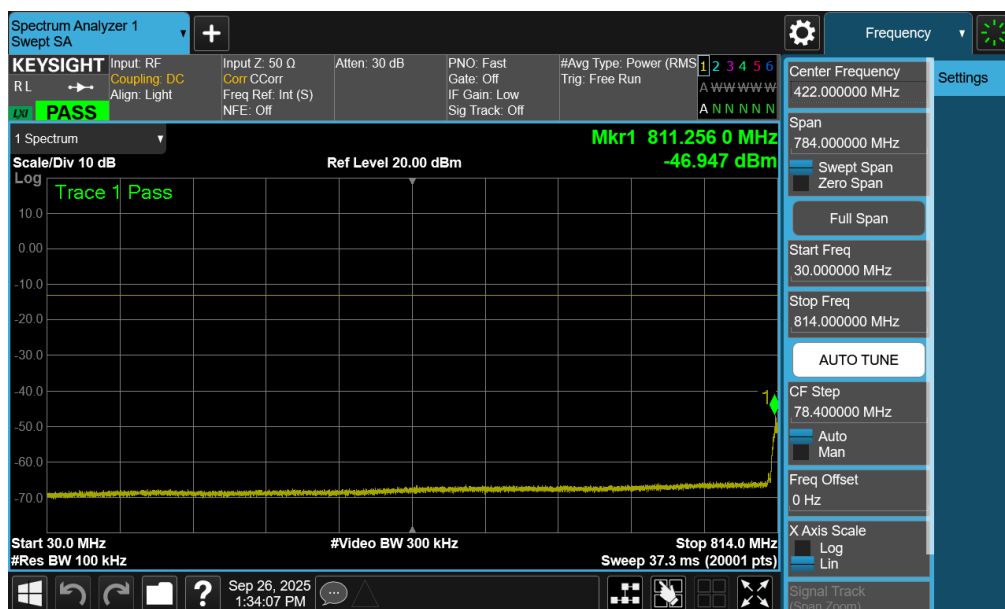
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 57 of 91



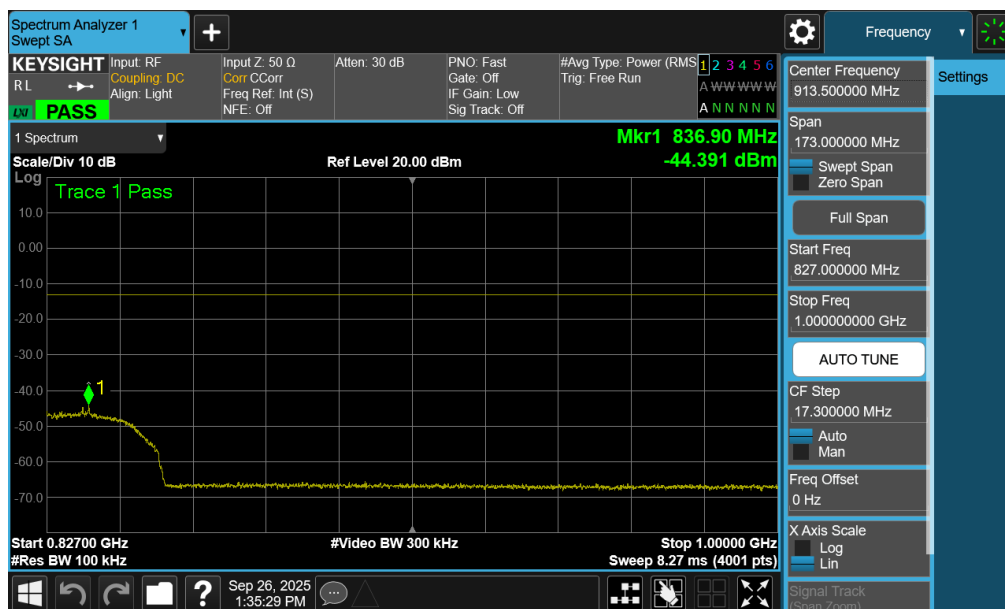
Plot 7-65. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 58 of 91

NR Band n26 - Ant 1

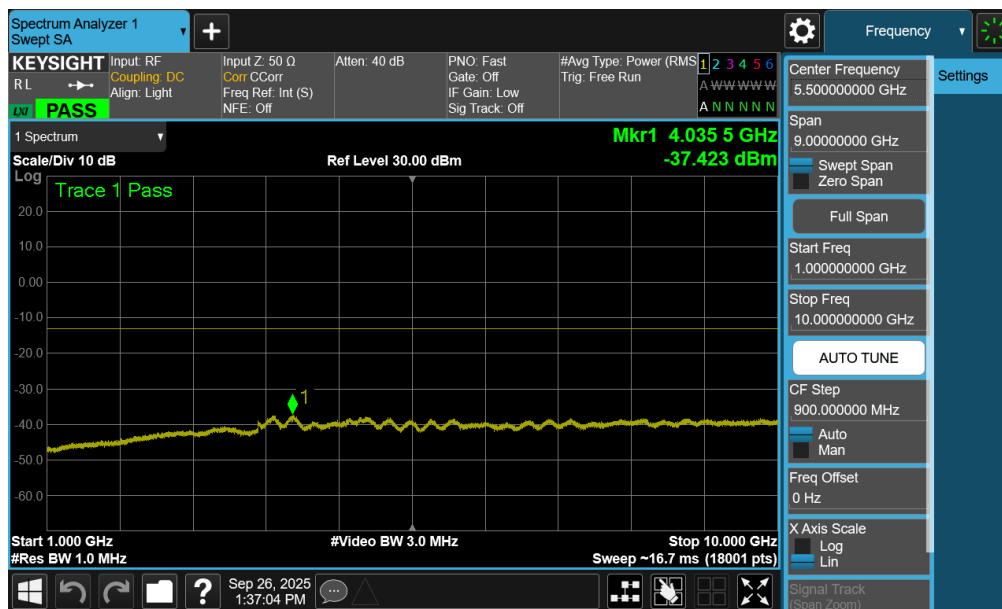


Plot 7-66. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-67. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 59 of 91



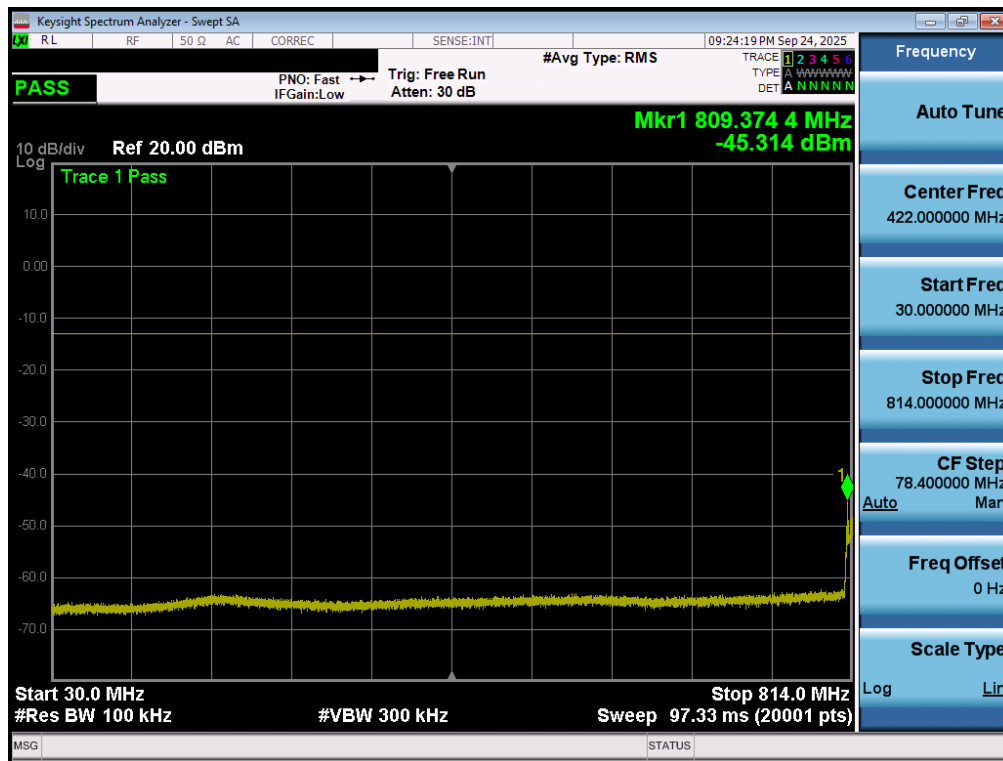
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 60 of 91

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B26	15 MHz	Mid	30.0 - 814.0	-45.31	-13	-32.31
		Mid	824.0 - 1000.0	-42.91	-13	-29.91
		Mid	1000.0 - 10000.0	-39.45	-13	-26.45
NR-n26	20 MHz	Mid	30.0 - 814.0	-46.95	-13	-33.95
		Mid	824.0 - 1000.0	-45.72	-13	-32.72
		Mid	1000.0 - 10000.0	-37.39	-13	-24.39

Table 7-9. Conducted Spurious Test Results – Ant 2

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 61 of 91

LTE Band 26 - Ant 2

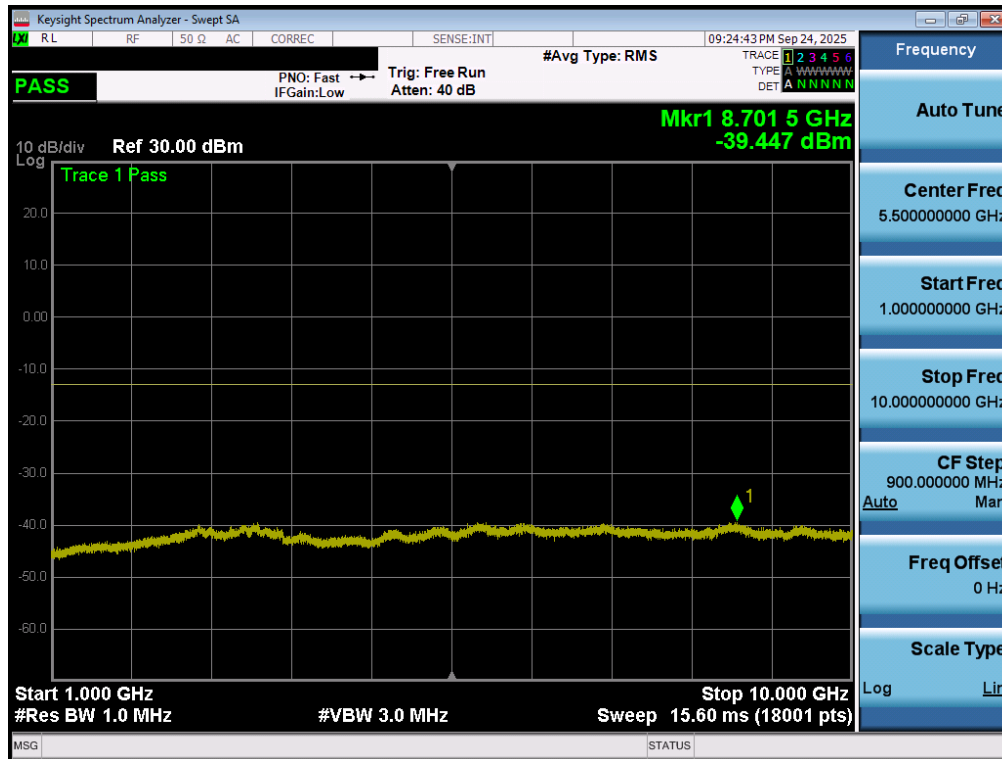


Plot 7-69. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)



Plot 7-70. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

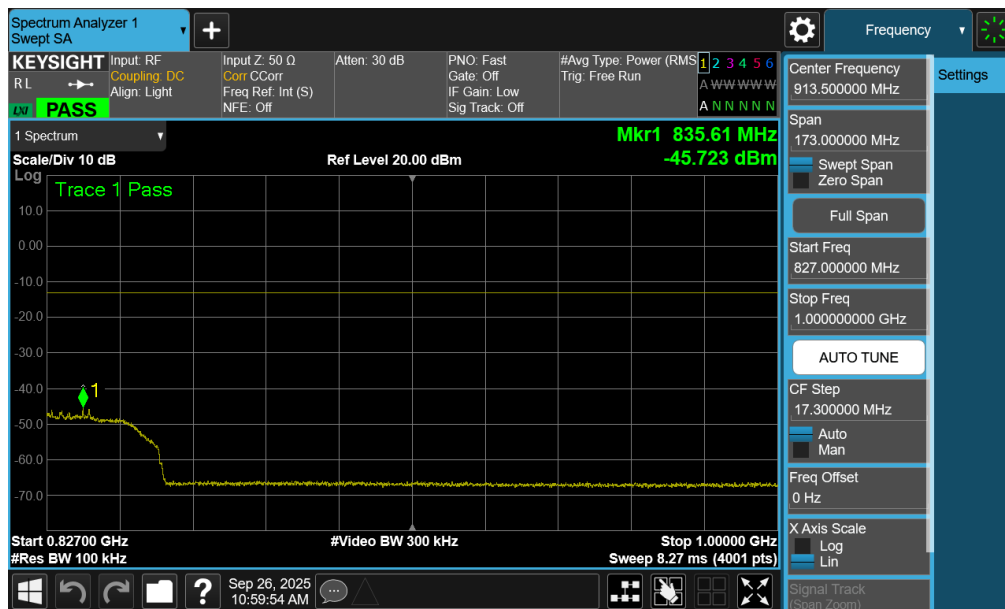
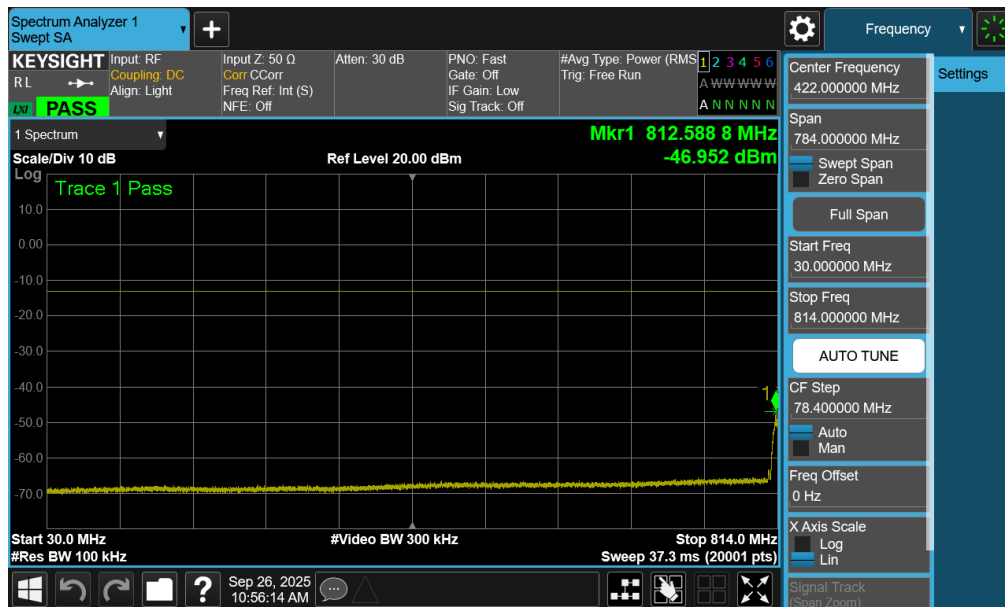
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 62 of 91



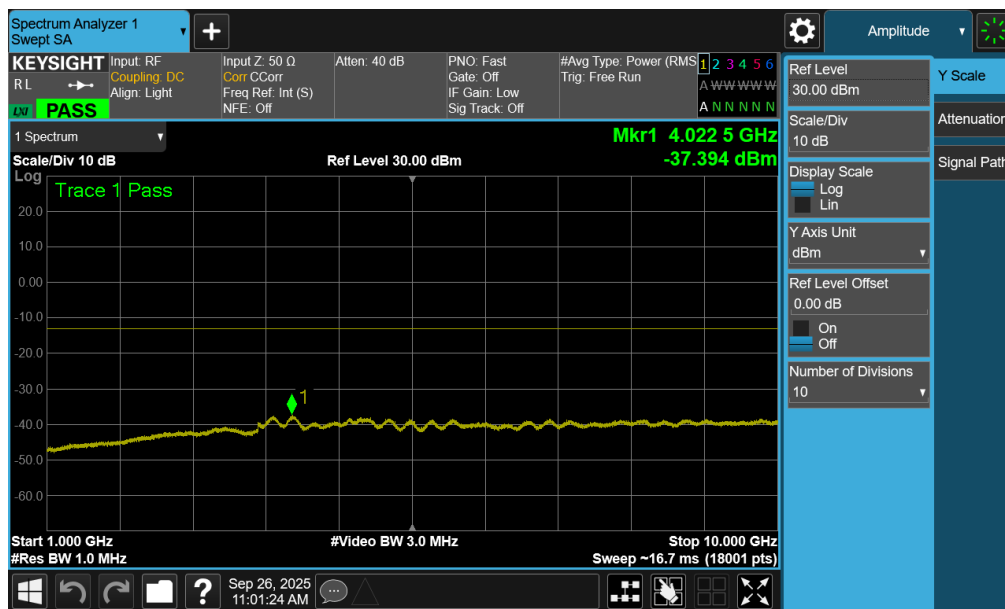
Plot 7-71. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 63 of 91

NR Band n26 - Ant 2



FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-74. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 65 of 91

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.

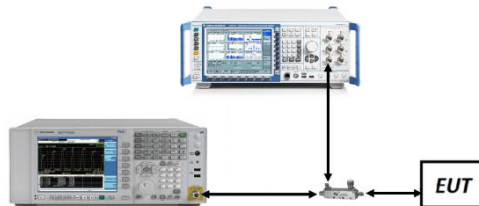


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 66 of 91

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.
3. 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.

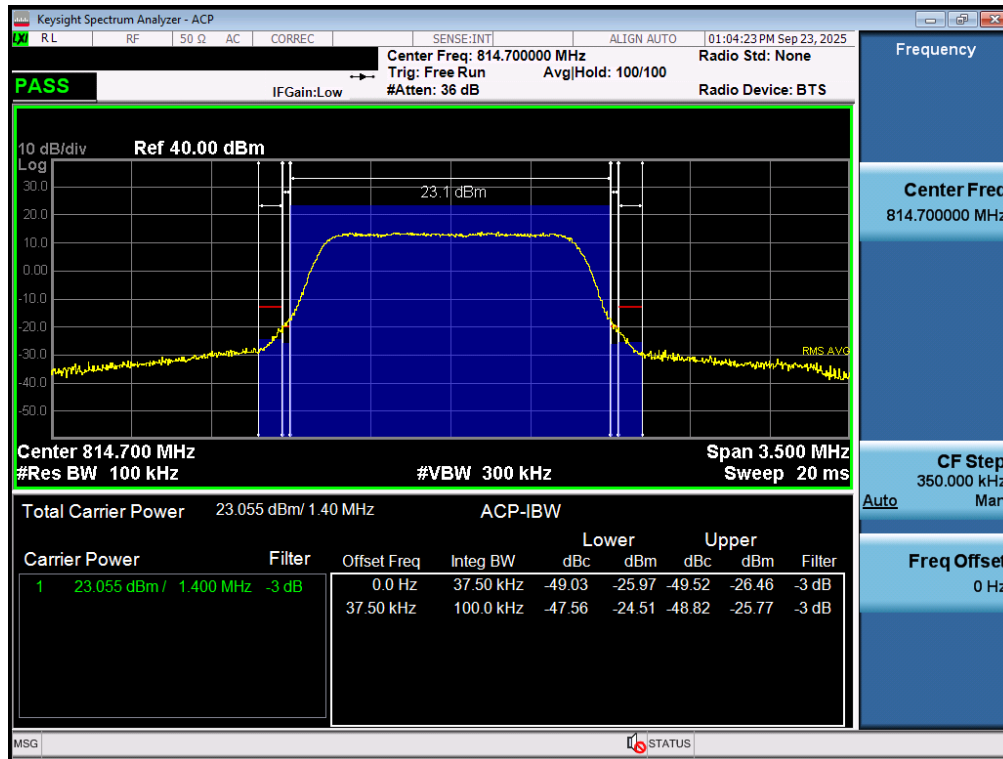
FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 67 of 91

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B26	15 MHz	Mid	Band Edge	-36.50	-20	-16.50
	10 MHz	Mid	Band Edge	-30.82	-20	-10.82
	5 MHz	Low	Band Edge	-25.15	-20	-5.15
		High	Band Edge	-24.63	-20	-4.63
	3 MHz	Low	Band Edge	-24.33	-20	-4.33
		High	Band Edge	-23.38	-20	-3.38
	1.4 MHz	Low	Band Edge	-25.97	-20	-5.97
		High	Band Edge	-22.35	-20	-2.35
NR-n26	20 MHz	Mid	Band Edge	-35.79	-20	-15.79
	15 MHz	Mid	Band Edge	-35.39	-20	-15.39
	10 MHz	Mid	Band Edge	-30.50	-20	-10.50
	5 MHz	Low	Band Edge	-24.39	-20	-4.39
		High	Band Edge	-24.77	-20	-4.77

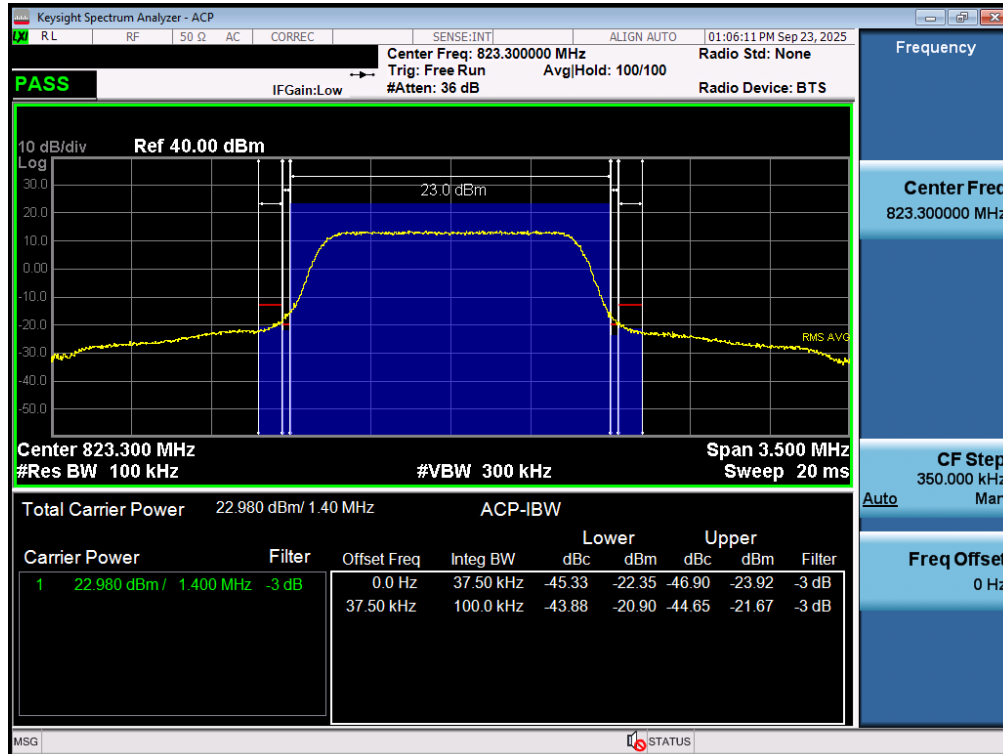
Table 7-10. Band Edge Test Results – Ant 1

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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LTE Band 26 – Ant 1



Plot 7-75. Channel - Edge Plot (LTE Band 26 - 1.4MHz QPSK - Low Channel)



Plot 7-76. Channel - Edge Plot (LTE Band 26 - 1.4MHz QPSK - High Channel)

FCC ID: A3LSMS942B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2508270084-12.A3L	Test Dates: 9/9/2025 - 10/15/2025	EUT Type: Portable Handset	Page 69 of 91