



ELEMENT WASHINGTON DC LLC

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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:

09/16/2024 10/28/2024

Test Report Issue Date:

10/30/2024

Test Site/Location:

Element lab., Columbia, MD, USA

Test Report Serial No.:

1M2408260067-06.A3L

FCC ID:

A3LSMS938U

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-S938U

Additional Model:

SM-S938U1

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



FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 1 of 128

T A B L E O F C O N T E N T S

1.0	INTRODUCTION	5
1.1	Scope	5
1.2	Element Test Location.....	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION.....	6
2.1	Equipment Description	6
2.2	Device Capabilities.....	6
2.3	Test Configuration	6
2.4	Software and Firmware	6
2.5	EMI Suppression Device(s)/Modifications	6
3.0	DESCRIPTION OF TESTS	7
3.1	Evaluation Procedure	7
3.2	Radiated Power and Radiated Spurious Emissions	7
4.0	MEASUREMENT UNCERTAINTY	8
5.0	TEST EQUIPMENT CALIBRATION DATA	9
6.0	SAMPLE CALCULATIONS	10
7.0	TEST RESULTS.....	11
7.1	Summary.....	11
7.2	Conducted Output Power Data	13
7.3	Occupied Bandwidth	16
7.4	Spurious and Harmonic Emissions at Antenna Terminal	63
7.5	Band Edge Emissions at Antenna Terminal	82
7.6	Radiated Power (ERP)	98
7.7	Radiated Spurious Emissions Measurements	102
7.8	Frequency Stability / Temperature Variation	123
8.0	CONCLUSION.....	128

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 2 of 128

MEASUREMENT REPORT

FCC Part 22 & 90

Antenna-E							
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	Max. Power [W]	Max. Power [dBm]	Emission Designator
LTE Band 14	10 MHz	QPSK	793.0	ERP	0.103	20.12	9M06G7D
		16QAM	793.0	ERP	0.082	19.15	9M08W7D
	5 MHz	QPSK	790.5 - 795.5	ERP	0.106	20.27	4M53G7D
		16QAM	790.5 - 795.5	ERP	0.088	19.45	4M54W7D
LTE Band 26	15 MHz	QPSK	821.5	ERP	0.102	20.11	13M5G7D
		16QAM	821.5	ERP	0.085	19.28	13M5W7D
	15 MHz	QPSK	821.5	Conducted	0.335	25.25	13M5G7D
		16QAM	821.5	Conducted	0.269	24.30	13M5W7D
	10 MHz	QPSK	819.0	Conducted	0.340	25.32	9M02G7D
		16QAM	819.0	Conducted	0.285	24.55	9M04W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.340	25.32	4M54G7D
		16QAM	816.5 - 821.5	Conducted	0.292	24.65	4M54W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.341	25.33	2M73G7D
		16QAM	815.5 - 822.5	Conducted	0.287	24.59	2M72W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.340	25.32	1M11G7D
		16QAM	814.7 - 823.3	Conducted	0.294	24.68	1M12W7D
NR Band n14	10 MHz	$\pi/2$ BPSK	793.0	ERP	0.096	19.83	9M02G7D
		QPSK	793.0	ERP	0.098	19.92	9M36G7D
		16QAM	793.0	ERP	0.076	18.80	9M37W7D
	5 MHz	$\pi/2$ BPSK	790.5 - 795.5	ERP	0.097	19.88	4M52G7D
		QPSK	790.5 - 795.5	ERP	0.101	20.05	4M54G7D
		16QAM	790.5 - 795.5	ERP	0.075	18.73	4M57W7D
NR Band n26	20 MHz	$\pi/2$ BPSK	824.0	ERP	0.075	18.78	18M0G7D
		QPSK	824.0	ERP	0.078	18.92	19M0G7D
		16QAM	824.0	ERP	0.058	17.61	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	ERP	0.079	18.95	13M5G7D
		QPSK	821.5	ERP	0.081	19.06	14M2G7D
		16QAM	821.5	ERP	0.055	17.43	14M2W7D
	20 MHz	$\pi/2$ BPSK	824.0	Conducted	0.272	24.34	18M0G7D
		QPSK	824.0	Conducted	0.280	24.47	19M0G7D
		16QAM	824.0	Conducted	0.224	23.50	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	Conducted	0.283	24.52	13M5G7D
		QPSK	821.5	Conducted	0.289	24.62	14M2G7D
		16QAM	821.5	Conducted	0.215	23.32	14M2W7D
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	0.290	24.63	9M00G7D
		QPSK	819.0	Conducted	0.278	24.43	9M34G7D
		16QAM	819.0	Conducted	0.217	23.37	9M35W7D
	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	0.264	24.21	4M52G7D
		QPSK	816.5 - 821.5	Conducted	0.266	24.24	4M52G7D
		16QAM	816.5 - 821.5	Conducted	0.208	23.18	4M60W7D

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 3 of 128

Antenna-A							
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	Max. Power [W]	Max. Power [dBm]	Emission Designator
LTE Band 14	10 MHz	QPSK	793.0	ERP	0.057	17.55	9M04G7D
		16QAM	793.0	ERP	0.046	16.64	9M04W7D
	5 MHz	QPSK	790.5 - 795.5	ERP	0.060	17.77	4M55G7D
		16QAM	790.5 - 795.5	ERP	0.053	17.28	4M53W7D
LTE Band 26	15 MHz	QPSK	821.5	ERP	0.051	17.10	13M5G7D
		16QAM	821.5	ERP	0.040	15.99	13M5W7D
	15 MHz	QPSK	821.5	Conducted	0.335	25.25	13M5G7D
		16QAM	821.5	Conducted	0.269	24.30	13M5W7D
	10 MHz	QPSK	819.0	Conducted	0.271	24.33	9M05G7D
		16QAM	819.0	Conducted	0.225	23.52	9M04W7D
	5 MHz	QPSK	816.5 - 821.5	Conducted	0.289	24.61	4M55G7D
		16QAM	816.5 - 821.5	Conducted	0.227	23.57	4M54W7D
	3 MHz	QPSK	815.5 - 822.5	Conducted	0.282	24.51	2M72G7D
		16QAM	815.5 - 822.5	Conducted	0.237	23.75	2M73W7D
	1.4 MHz	QPSK	814.7 - 823.3	Conducted	0.277	24.43	1M11G7D
		16QAM	814.7 - 823.3	Conducted	0.240	23.80	1M12W7D
NR Band n14	10 MHz	$\pi/2$ BPSK	793.0	ERP	0.065	18.10	9M02G7D
		QPSK	793.0	ERP	0.066	18.20	9M36G7D
		16QAM	793.0	ERP	0.052	17.17	9M38W7D
	5 MHz	$\pi/2$ BPSK	790.5 - 795.5	ERP	0.065	18.12	4M51G7D
		QPSK	790.5 - 795.5	ERP	0.068	18.34	4M54G7D
		16QAM	790.5 - 795.5	ERP	0.055	17.40	4M57W7D
	20 MHz	$\pi/2$ BPSK	824.0	ERP	0.034	15.31	18M0G7D
		QPSK	824.0	ERP	0.034	15.37	19M0G7D
		16QAM	824.0	ERP	0.027	14.29	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	ERP	0.034	15.35	13M5G7D
		QPSK	821.5	ERP	0.034	15.31	14M2G7D
		16QAM	821.5	ERP	0.026	14.21	14M2W7D
	20 MHz	$\pi/2$ BPSK	824.0	Conducted	0.266	24.25	18M0G7D
		QPSK	824.0	Conducted	0.261	24.17	19M0G7D
		16QAM	824.0	Conducted	0.210	23.22	19M1W7D
	15 MHz	$\pi/2$ BPSK	821.5	Conducted	0.268	24.28	13M5G7D
		QPSK	821.5	Conducted	0.257	24.10	14M2G7D
		16QAM	821.5	Conducted	0.206	23.14	14M2W7D
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	0.277	24.42	9M02G7D
		QPSK	819.0	Conducted	0.274	24.38	9M36G7D
		16QAM	819.0	Conducted	0.220	23.43	9M37W7D
	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	0.281	24.49	4M53G7D
		QPSK	816.5 - 821.5	Conducted	0.273	24.36	4M53G7D
		16QAM	816.5 - 821.5	Conducted	0.215	23.32	4M60W7D

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 4 of 128

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.

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

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 5 of 128

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Portable Handset FCC ID: A3LSMS938U**. 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.: 0286M, 0334M, 0099M, 0084M, 0081M

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 and FR2), 802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), NFC, UWB, 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.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version S938USQUOAXJ3 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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 6 of 128

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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 7 of 128

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

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 8 of 128

5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	AP2	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	AP2
-	AP1	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	AP1
-	ETS	EMC Cable and Switch System	4/2/2024	Annual	4/2/2025	ETS
-	LTx1	Licensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx1
-	LTx4	Licensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx4
-	LTx5	Licensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx5
Agilent	N9030A	50GHz PXA Signal Analyzer	4/23/2024	Annual	4/23/2025	US51350301
Anritsu	MT8821C	Radio Communication Analyzer	N/A			6201381794
Emco	3116	Horn Antenna (18 - 40GHz)	7/5/2023	Triennial	7/5/2025	9203-2178
Espec	ESX-2CA	Environmental Chamber	9/26/2024	Annual	9/26/2026	17620
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	3/29/2023	Biennial	3/29/2025	128337
ETS Lindgren	3164-10	Quad Ridge Horn 400MHz - 10000MHz	7/13/2023	Biennial	7/13/2025	00166283
Keysight Technologies	N9020A	MXA Signal Analyzer	4/11/2024	Annual	4/11/2025	MY54500644
Keysight Technologies	N9030A	PXA Signal Analyzer	2/29/2024	Annual	3/1/2025	MY55410501
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator	N/A			11208010032
Mini-Circuits	SSG-4000HP	Synthesized Signal Generator	N/A			11403100002
Rohde & Schwarz	CMW500	Radio Communication Tester	N/A			112347
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	FSW26	2Hz-26.5GHz Signal and Spectrum Analyzer	3/8/2024	Annual	3/8/2025	103187
Sunol	JB6	LB6 Antenna	3/2/2023	Biennial	3/2/2025	A082816

Table 5-1. Test Equipment

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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 9 of 128

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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 10 of 128

7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMS938U
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	RSS Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power*	2.1046(a), 90.635(b)	RSS-Gen(6.12)	< 100 Watts	PASS	Section 7.2
	Occupied Bandwidth	2.1049(h)	RSS-Gen(6.7)	N/A	PASS	Section 7.3
	Conducted Band Edge / Spurious Emissions (LTE Band 14; NR Band n14)	2.1051, 90.543(c)(e)	RSS-Gen(6.13), RSS-140(4.4)	On all frequencies between 769-775 MHz and 799-805 MHz, attenuation by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, attenuation by at least $43 + 10 \log(P)$ dB > $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions outside of those specified in 90.543(e)	PASS	Sections 7.4, 7.5
	Conducted Band Edge / Spurious Emissions (LTE Band 26; NR Band n26; CDMA BC10)	2.1051, 90.691(a)	N/A	> $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions except emissions beyond 37.5kHz from the block edge > $50 + 10 \log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Sections 7.4, 7.5
	Frequency Stability	2.1055, 90.213	RSS-Gen(6.11), RSS-140(4.2)	< 2.5 ppm **Fundamental emissions stay within authorized frequency block	PASS	Section 7.8
RADIATED	Effective Radiated Power (LTE Band 14; NR Band n14)	90.542(a)(7)	RSS-Gen(6.12), RSS-140(4.3)	< 3 Watts max. ERP	PASS	Section 7.6
	Effective Radiated Power (LTE Band 26; NR Band n26; CDMA BC10)	22.913(a)(2)	N/A	< 7 Watts max. ERP	PASS	Section 7.6
	Radiated Spurious Emissions (LTE Band 14; NR Band n14)	2.1053, 90.543(e)(f)	RSS-Gen(7.3), RSS-140(4.4)	> $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions except emissions in the 1559 - 1610MHz band are subject to a limit of -40dBm/MHz for wideband signals	PASS	Section 7.7
	Radiated Spurious Emissions (LTE Band 26; NR Band n26; CDMA BC10)	2.1053, 90.691(a)	N/A	> $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions except emissions beyond 37.5kHz from the block edge > $50 + 10 \log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	PASS	Section 7.7

* 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

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 11 of 128

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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 12 of 128

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.

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 13 of 128

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	25.25	0.335	50.00	-24.75
	16-QAM	26765	821.5	1/37	24.30	0.269	50.00	-25.70
10 MHz	QPSK	26740	819.0	1 / 49	25.32	0.340	50.00	-24.68
	16-QAM	26740	819.0	1 / 25	24.55	0.285	50.00	-25.45
5 MHz	QPSK	26715	816.5	1 / 0	25.28	0.337	50.00	-24.72
		26765	821.5	1 / 12	25.32	0.340	50.00	-24.68
	16-QAM	26715	816.5	1 / 0	24.46	0.279	50.00	-25.54
		26765	821.5	1 / 0	24.65	0.292	50.00	-25.35
3 MHz	QPSK	26705	815.5	1 / 7	25.33	0.341	50.00	-24.67
		26775	822.5	1 / 7	25.21	0.332	50.00	-24.79
	16-QAM	26705	815.5	1 / 0	24.59	0.287	50.00	-25.41
		26775	822.5	1 / 7	24.44	0.278	50.00	-25.56
1.4 MHz	QPSK	26697	814.7	1 / 0	25.20	0.331	50.00	-24.80
		26783	823.3	1 / 3	25.32	0.340	50.00	-24.68
	16-QAM	26697	814.7	1 / 5	24.66	0.293	50.00	-25.34
		26783	823.3	1 / 3	24.68	0.294	50.00	-25.32

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

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	24.34	0.272	50.00	-25.66
	QPSK	164800	824.0	1 / 104	24.47	0.280	50.00	-25.53
	16-QAM	164800	824.0	1 / 104	23.50	0.224	50.00	-26.50
15 MHz	$\pi/2$ BPSK	164300	821.5	1 / 77	24.52	0.283	50.00	-25.48
	QPSK	164300	821.5	1 / 77	24.62	0.289	50.00	-25.38
	16-QAM	164300	821.5	1 / 77	23.32	0.215	50.00	-26.68
10 MHz	$\pi/2$ BPSK	163800	819.0	1 / 1	24.63	0.290	50.00	-25.37
	QPSK	163800	819.0	1 / 1	24.43	0.278	50.00	-25.57
	16-QAM	163800	819.0	1 / 1	23.37	0.217	50.00	-26.63
5 MHz	$\pi/2$ BPSK	163300	816.5	1 / 12	24.21	0.264	50.00	-25.79
		164300	821.5	1 / 12	24.20	0.263	50.00	-25.80
	QPSK	163300	816.5	1 / 12	24.06	0.255	50.00	-25.94
		164300	821.5	1 / 12	24.24	0.266	50.00	-25.76
	16-QAM	163300	816.5	1 / 12	23.07	0.203	50.00	-26.93
		164300	821.5	1 / 12	23.18	0.208	50.00	-26.82

Table 7-3. NR Band n26 Conducted Powers – Ant E

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 14 of 128

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	25.25	0.335	50.00	-24.75
	16-QAM	26765	821.5	1 / 37	24.30	0.269	50.00	-25.70
10 MHz	QPSK	26740	819.0	1 / 0	24.33	0.271	50.00	-25.67
	16-QAM	26740	819.0	1 / 0	23.52	0.225	50.00	-26.48
5 MHz	QPSK	26715	816.5	1 / 24	24.61	0.289	50.00	-25.39
		26765	821.5	1 / 12	24.51	0.282	50.00	-25.49
	16-QAM	26715	816.5	1 / 24	23.57	0.227	50.00	-26.43
		26765	821.5	1 / 12	23.57	0.227	50.00	-26.43
3 MHz	QPSK	26705	815.5	1 / 0	24.24	0.266	50.00	-25.76
		26775	822.5	1 / 7	24.51	0.282	50.00	-25.49
	16-QAM	26705	815.5	1 / 0	23.71	0.235	50.00	-26.29
		26775	822.5	1 / 7	23.75	0.237	50.00	-26.25
1.4 MHz	QPSK	26697	814.7	1 / 3	24.43	0.277	50.00	-25.57
		26783	823.3	1 / 3	24.38	0.274	50.00	-25.62
	16-QAM	26697	814.7	1 / 3	23.62	0.230	50.00	-26.38
		26783	823.3	1 / 3	23.80	0.240	50.00	-26.20

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

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	24.25	0.266	50.00	-25.75
	QPSK	164800	824.0	1 / 104	24.17	0.261	50.00	-25.83
	16-QAM	164800	824.0	1 / 104	23.22	0.210	50.00	-26.78
15 MHz	$\pi/2$ BPSK	164300	821.5	1 / 77	24.28	0.268	50.00	-25.72
	QPSK	164300	821.5	1 / 77	24.10	0.257	50.00	-25.90
	16-QAM	164300	821.5	1 / 77	23.14	0.206	50.00	-26.86
10 MHz	$\pi/2$ BPSK	163800	819.0	1 / 26	24.42	0.277	50.00	-25.58
	QPSK	163800	819.0	1 / 26	24.38	0.274	50.00	-25.62
	16-QAM	163800	819.0	1 / 26	23.43	0.220	50.00	-26.57
5 MHz	$\pi/2$ BPSK	163300	816.5	1 / 1	24.49	0.281	50.00	-25.51
		164300	821.5	1 / 12	24.29	0.269	50.00	-25.71
	QPSK	163300	816.5	1 / 1	24.35	0.272	50.00	-25.65
		164300	821.5	1 / 12	24.36	0.273	50.00	-25.64
	16-QAM	163300	816.5	1 / 1	23.32	0.215	50.00	-26.68
		164300	821.5	1 / 12	23.14	0.206	50.00	-26.86

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

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 15 of 128

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.

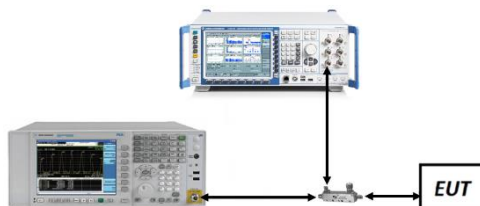


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 16 of 128

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B14	10 MHz	QPSK	9.06
		16QAM	9.08
	5 MHz	QPSK	4.53
		16QAM	4.54
LTE-B26	15 MHz	QPSK	13.50
		16QAM	13.54
	10 MHz	QPSK	9.02
		16QAM	9.04
	5 MHz	QPSK	4.54
		QPSK	4.52
		16QAM	4.54
		16QAM	4.52
	3 MHz	QPSK	2.72
		QPSK	2.73
		16QAM	2.72
		16QAM	2.72
	1.4 MHz	QPSK	1.10
		QPSK	1.11
		16QAM	1.11
		16QAM	1.12
NR-n14	10 MHz	$\pi/2$ BPSK	9.02
		QPSK	9.36
		16QAM	9.37
	5 MHz	$\pi/2$ BPSK	4.52
		QPSK	4.54
		16QAM	4.57
NR-n26	20 MHz	$\pi/2$ BPSK	17.97
		QPSK	19.00
		16QAM	19.06
	15 MHz	$\pi/2$ BPSK	13.50
		QPSK	14.19
		16QAM	14.21
	10 MHz	$\pi/2$ BPSK	9.00
		QPSK	9.34
		16QAM	9.35
	5 MHz	$\pi/2$ BPSK	4.52
		$\pi/2$ BPSK	4.52
		QPSK	4.52
		QPSK	4.52
		16QAM	4.60
		16QAM	4.57

Table 7-6. Occupied Bandwidth Test Results – Ant E

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 17 of 128

LTE Band 14 – Ant E



Plot 7-1. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)



Plot 7-2. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 18 of 128



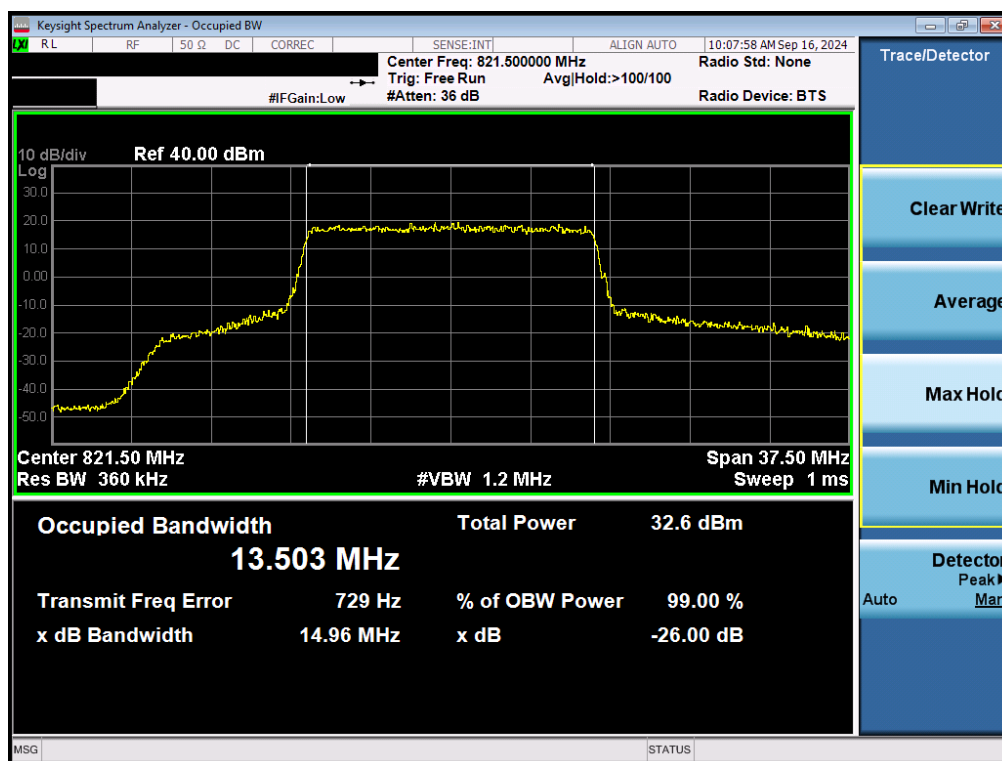
Plot 7-3. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 19 of 128

LTE Band 26 – Ant E

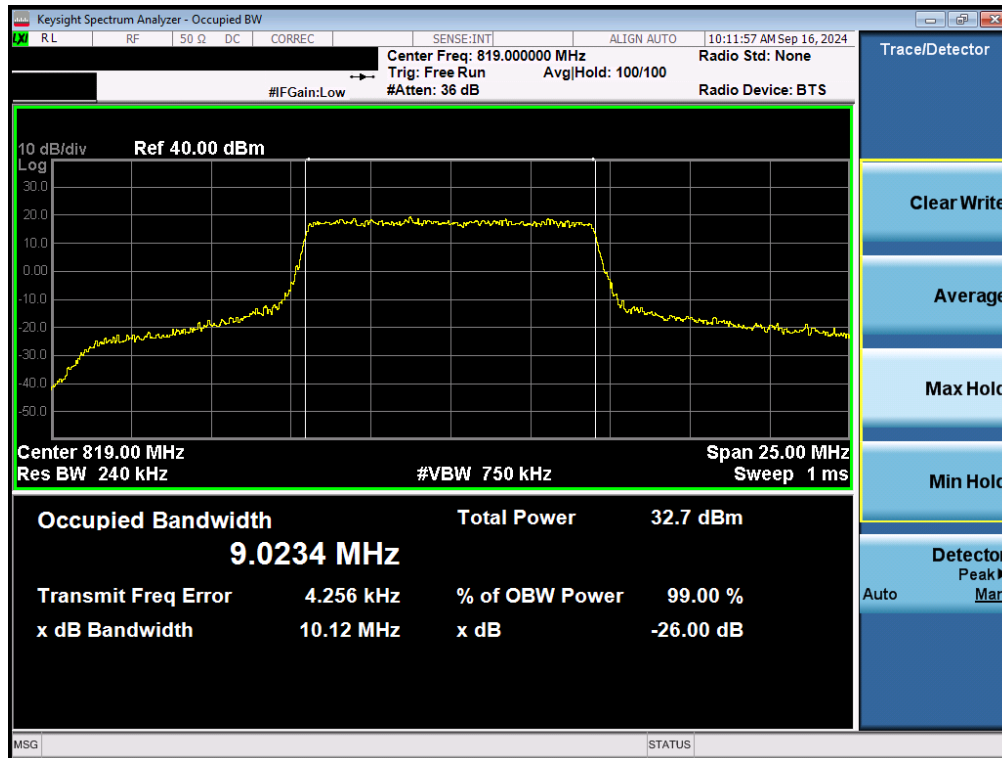


Plot 7-5. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB)

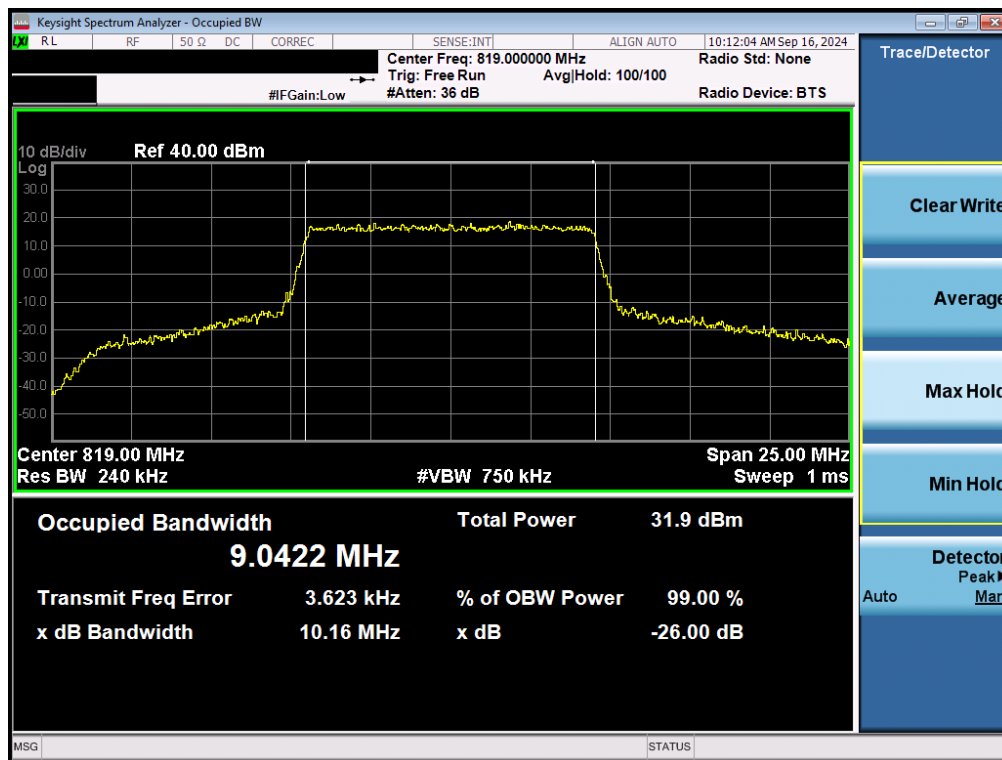


Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 20 of 128

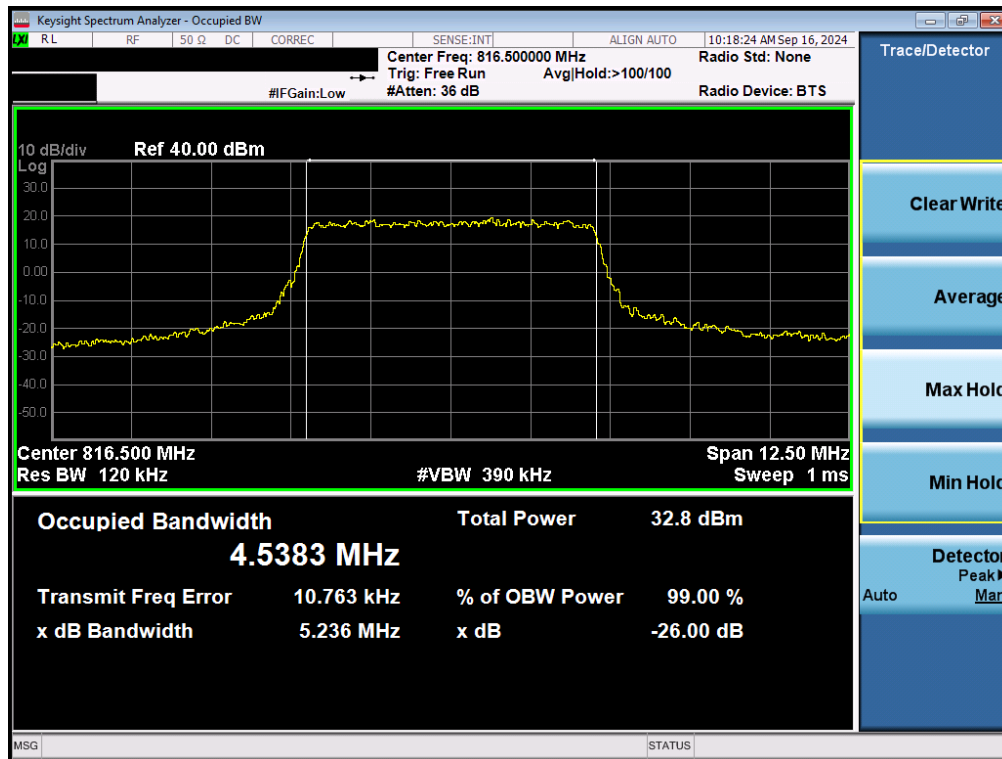


Plot 7-7. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)



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

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 21 of 128

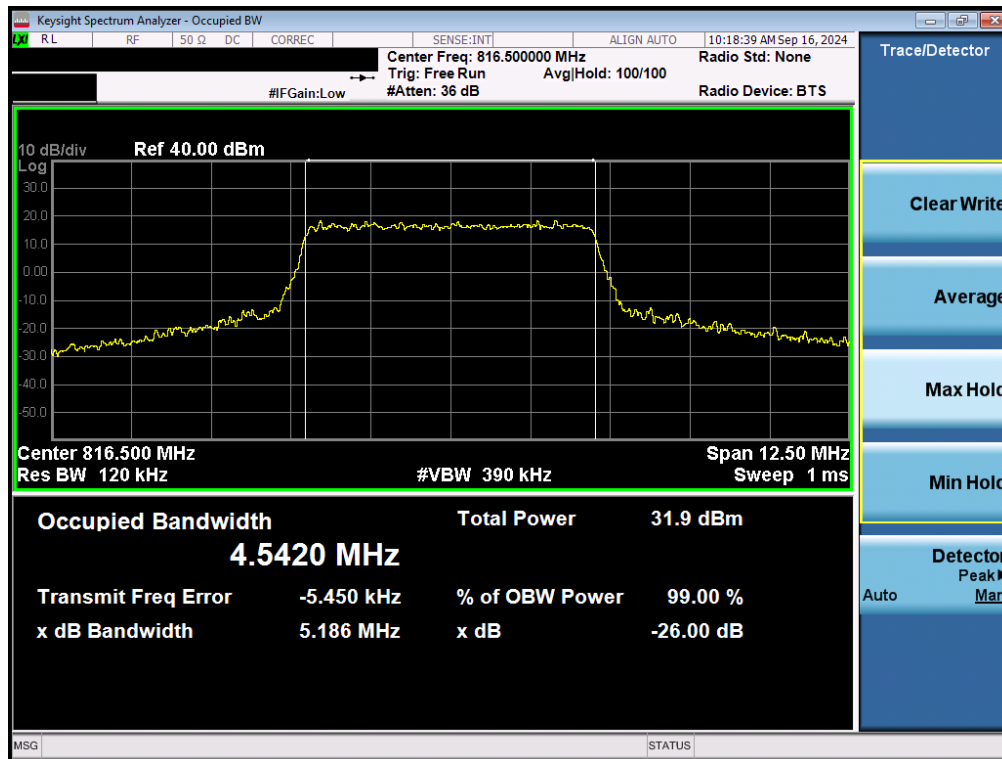


Plot 7-9. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel- Full RB)



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

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 22 of 128

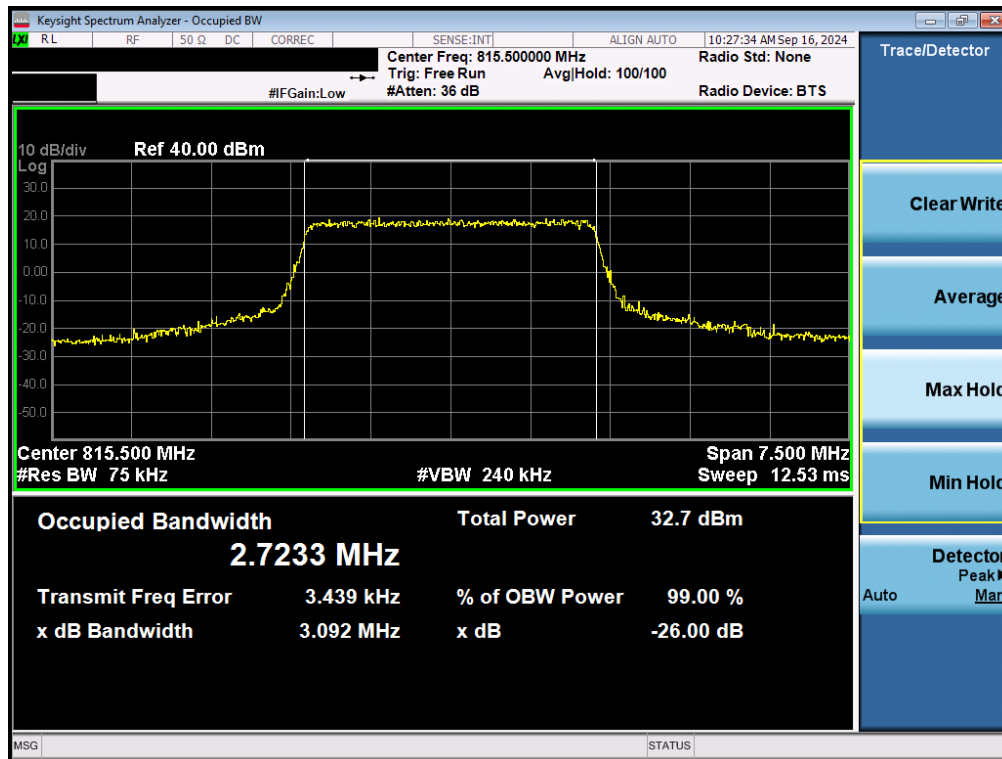


Plot 7-11. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM Low Channel - Full RB)



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

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 23 of 128

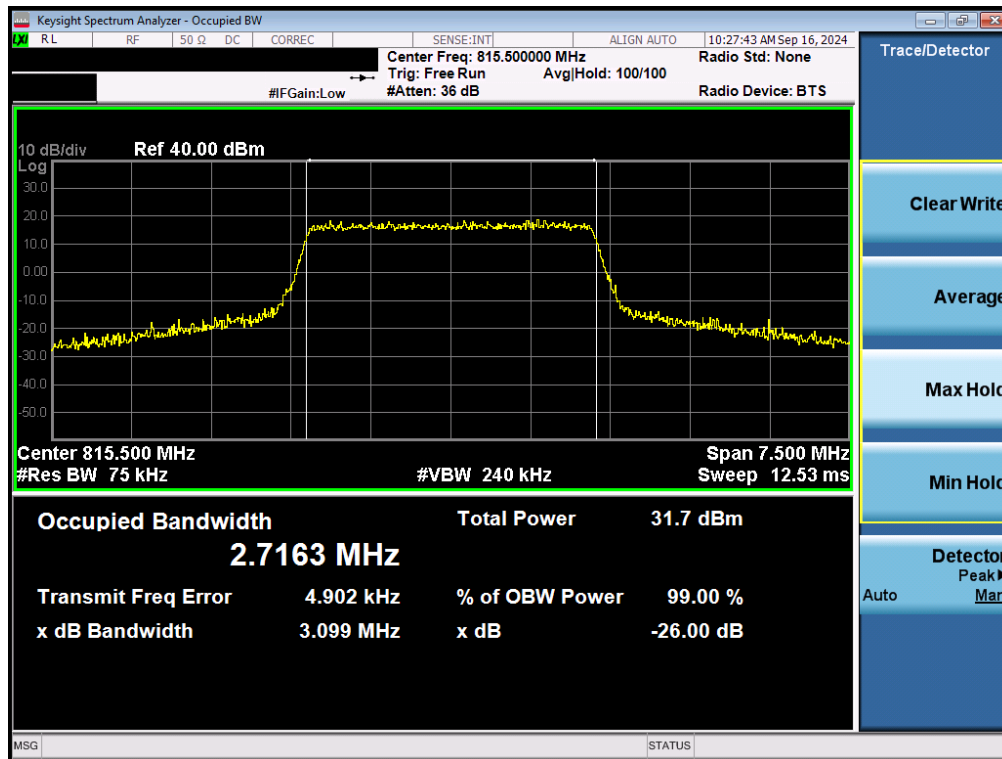


Plot 7-13. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel- Full RB)



Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 24 of 128

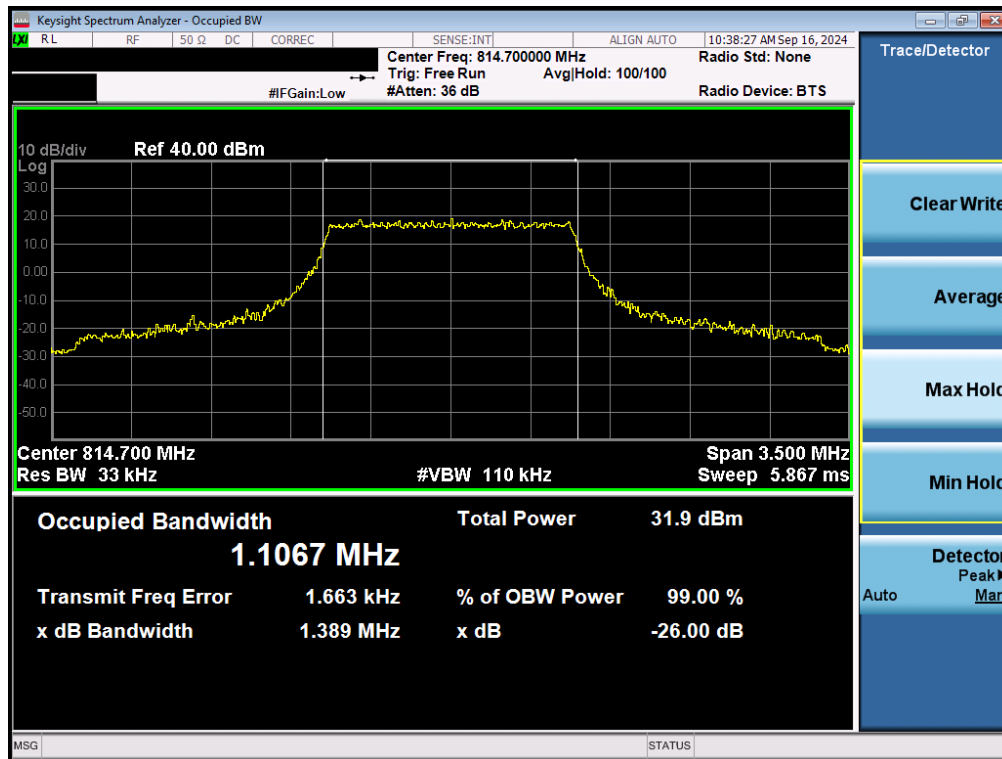


Plot 7-15. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)

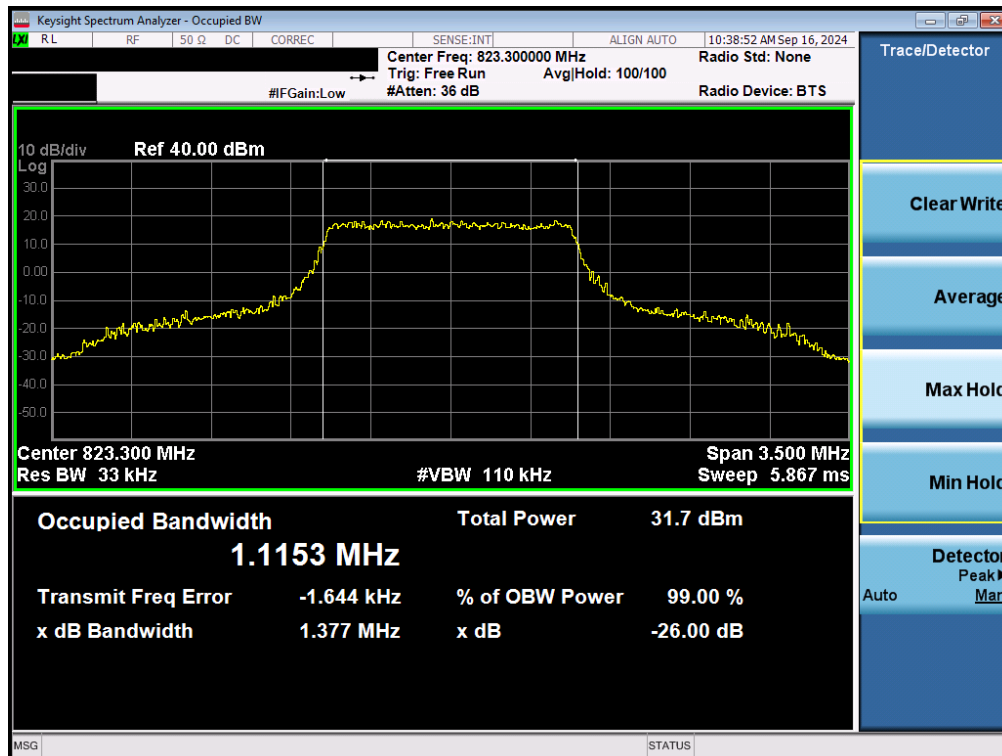


Plot 7-16. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 25 of 128

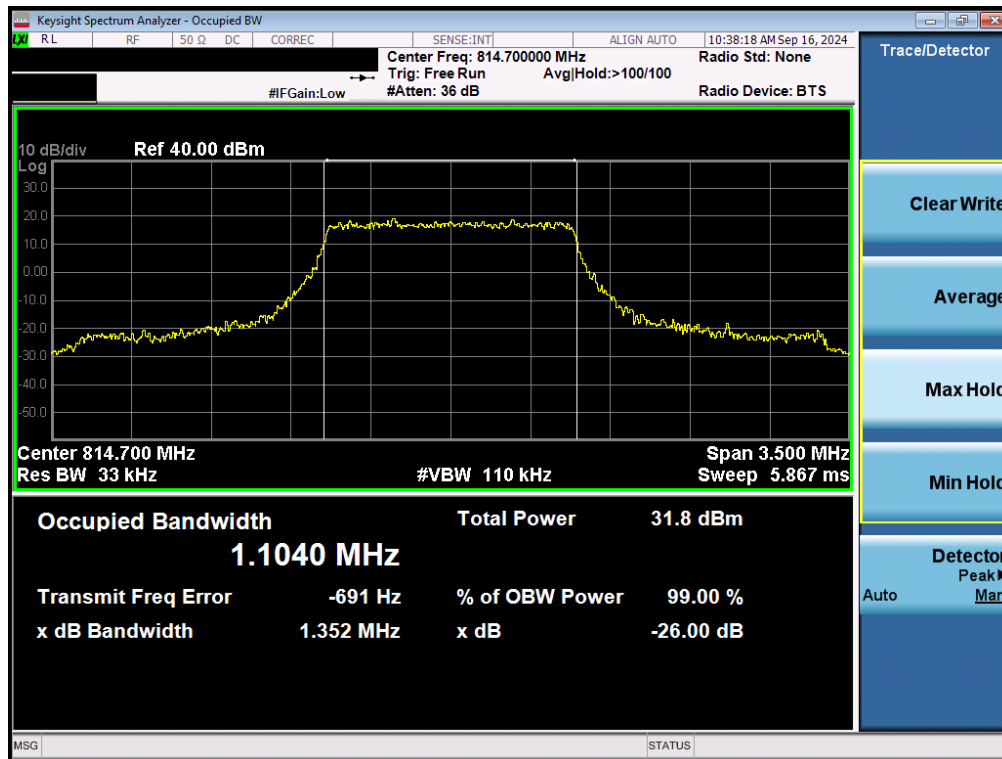


Plot 7-17. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)

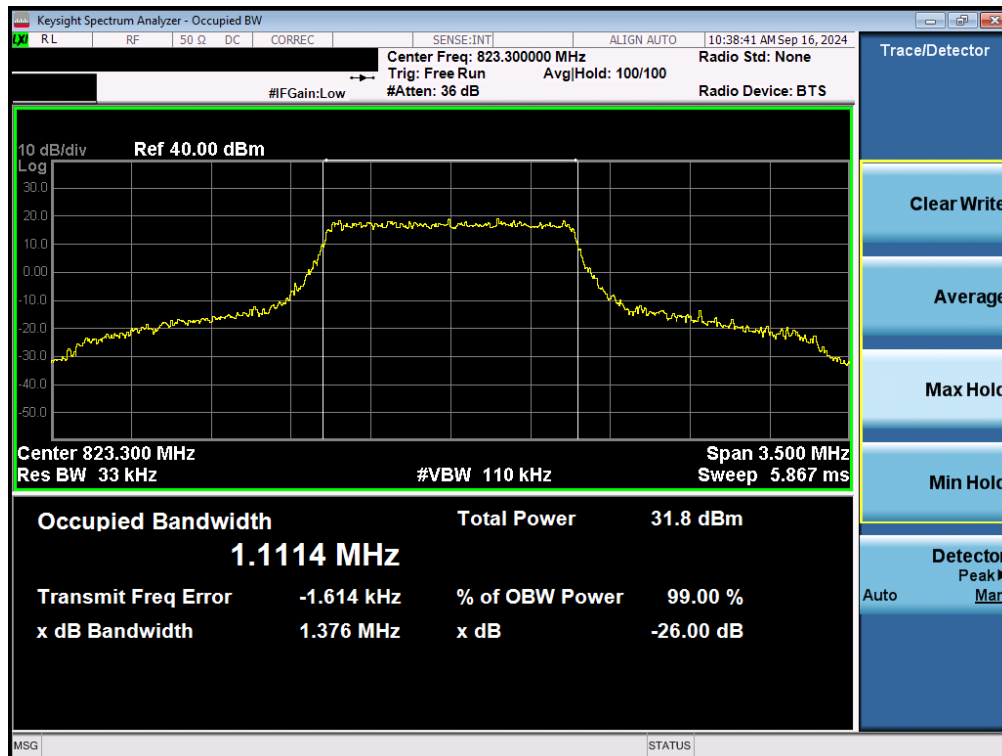


Plot 7-18. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 26 of 128

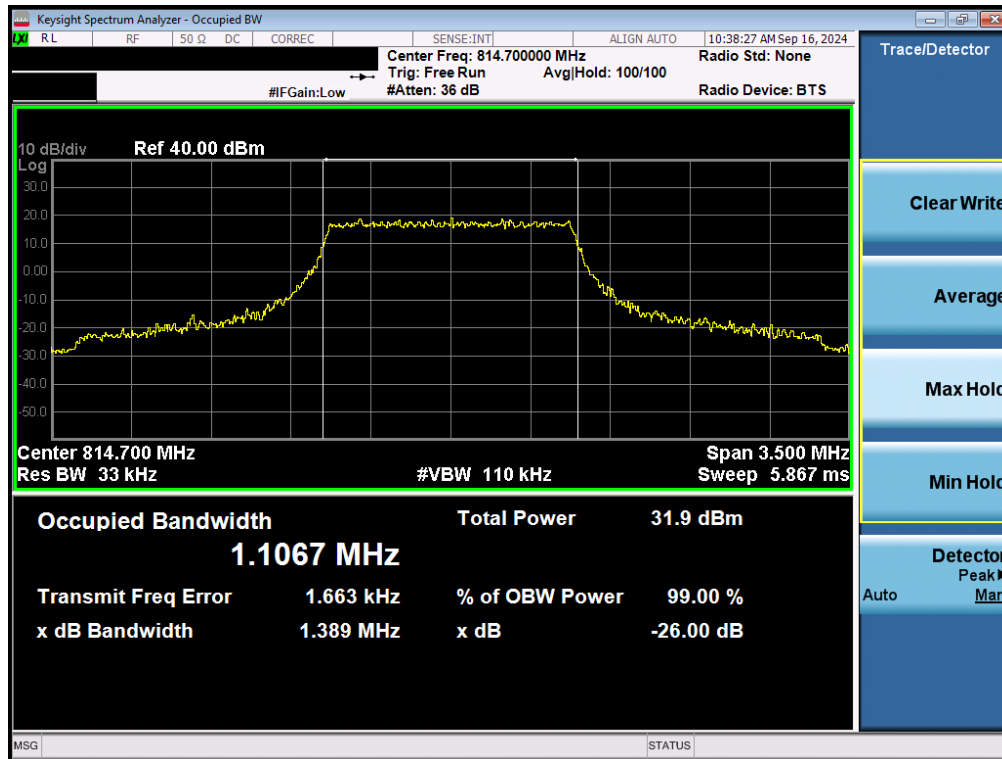


Plot 7-19. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK Low Channel- Full RB)

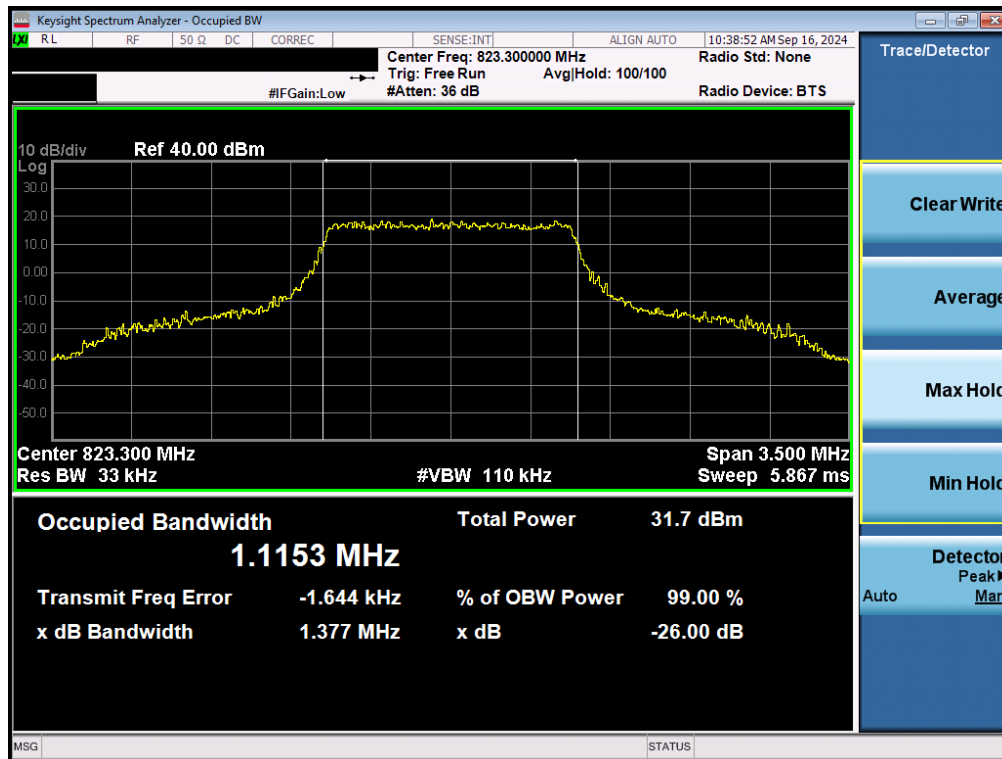


Plot 7-20. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 27 of 128



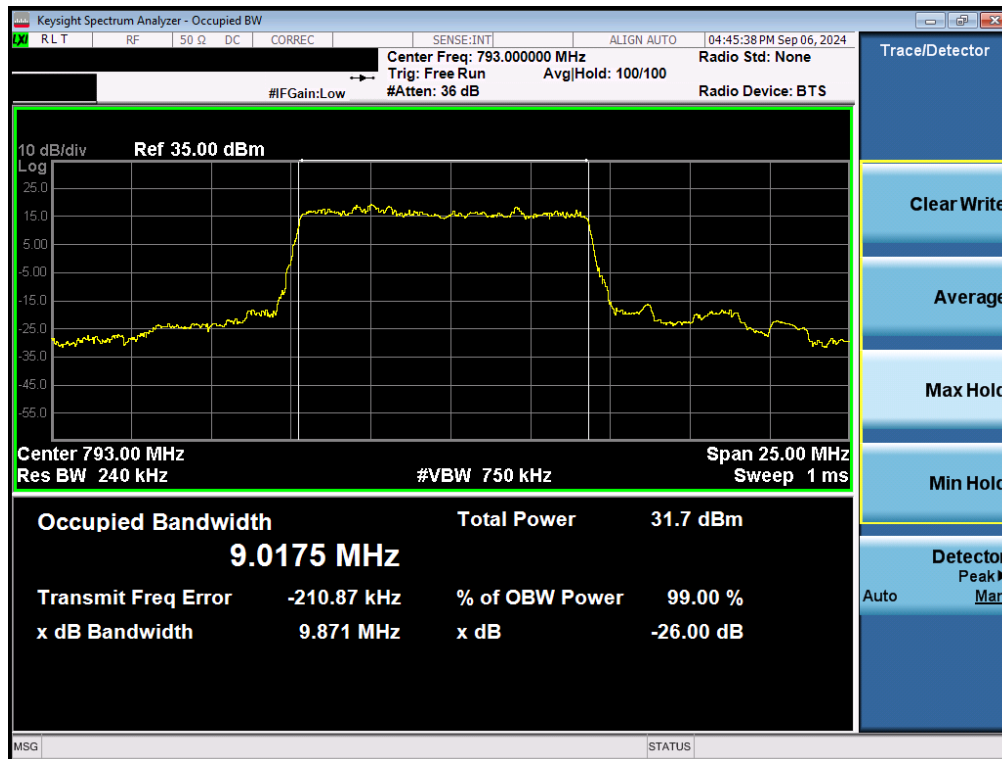
Plot 7-21. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



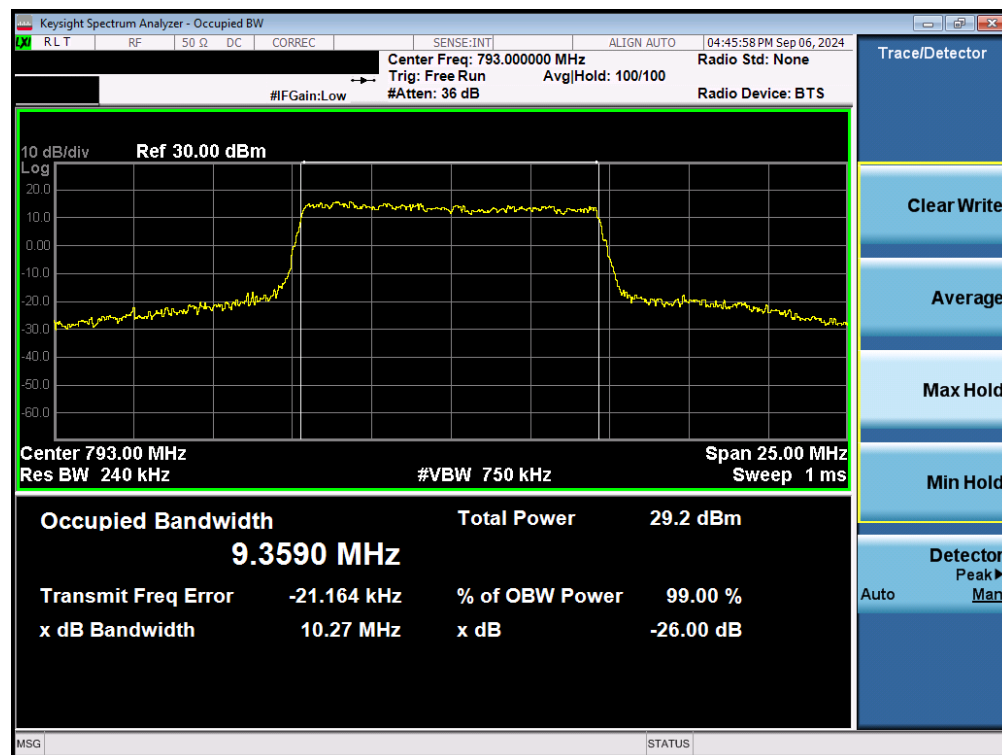
Plot 7-22. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 28 of 128

NR Band n14 – Ant E

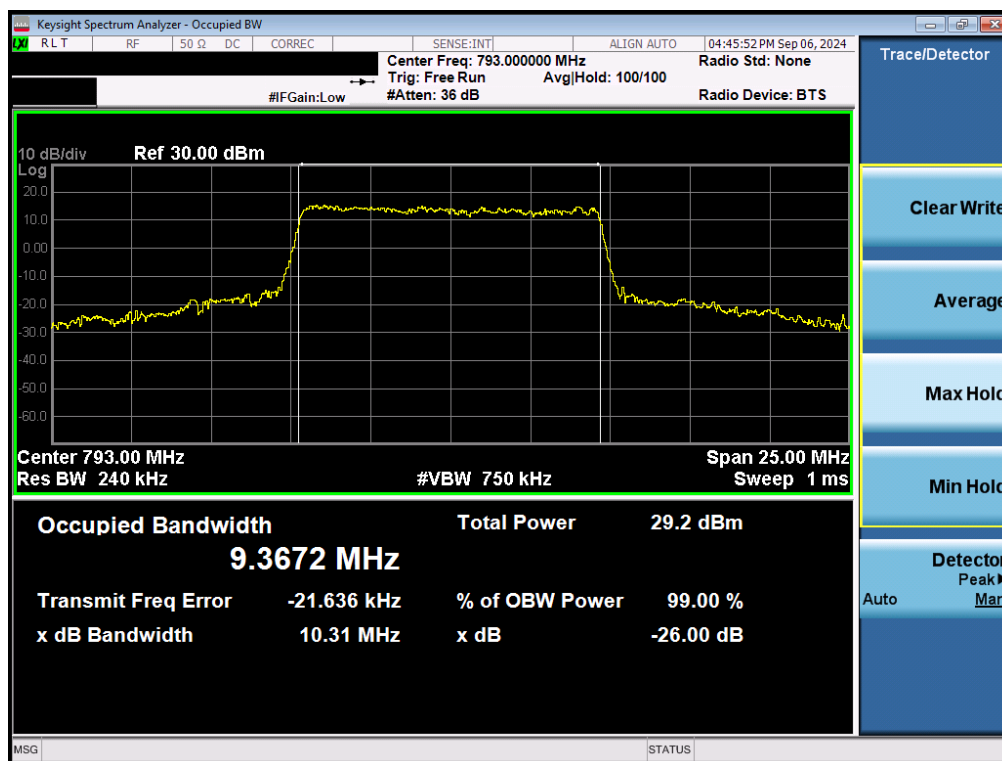


Plot 7-23. Occupied Bandwidth Plot (NR Band n14 - 10MHz $\pi/2$ BPSK - Full RB)

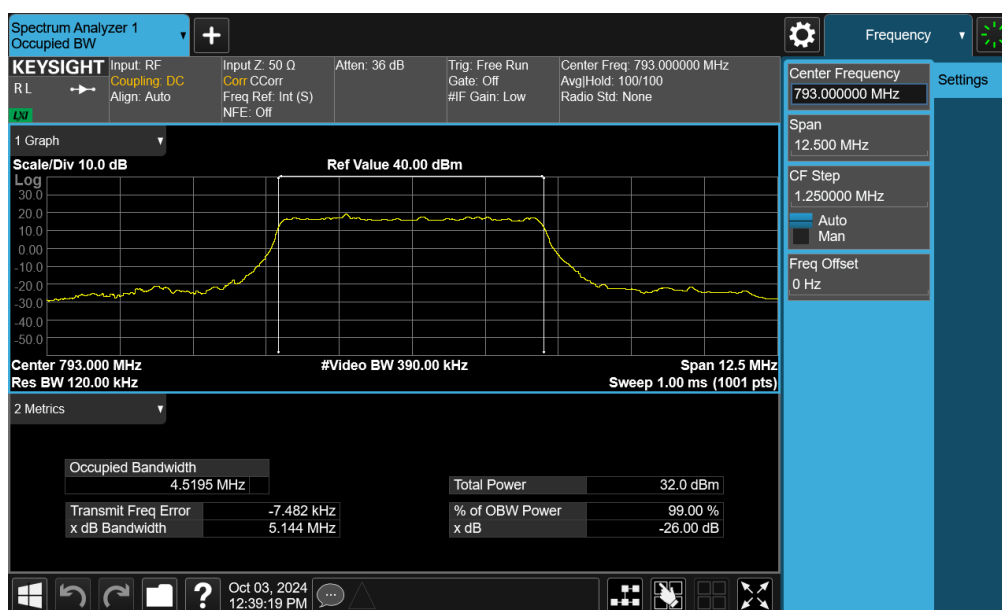


Plot 7-24. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 29 of 128

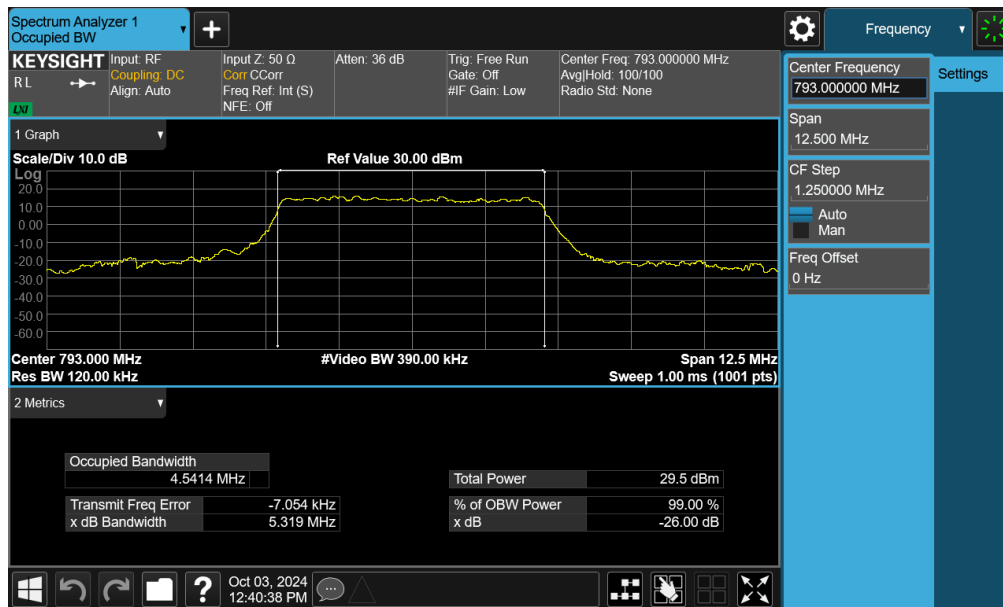


Plot 7-25. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

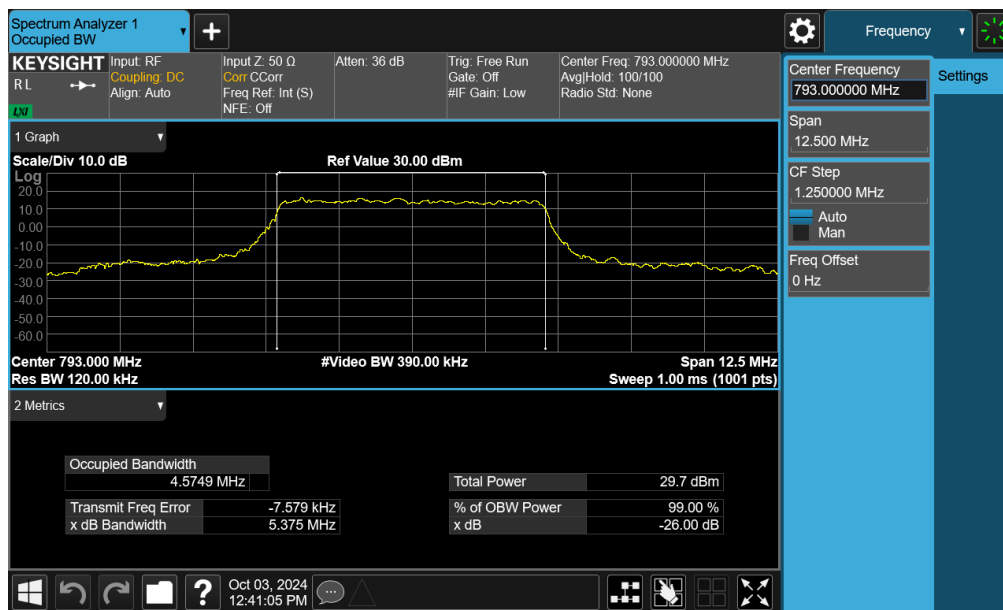


Plot 7-26. Occupied Bandwidth Plot (NR Band n14 - 5MHz $\pi/2$ BPSK - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 30 of 128



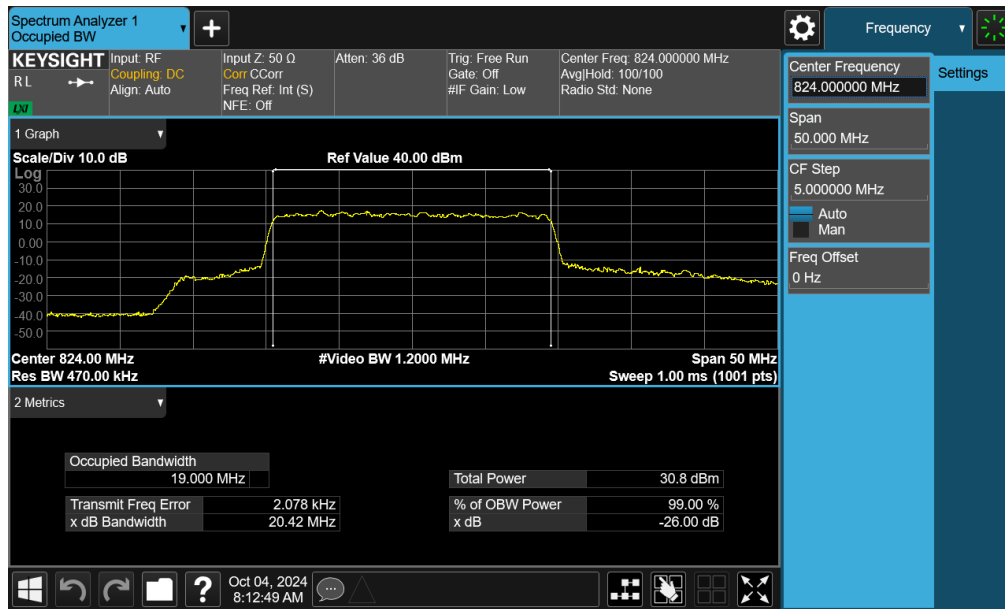
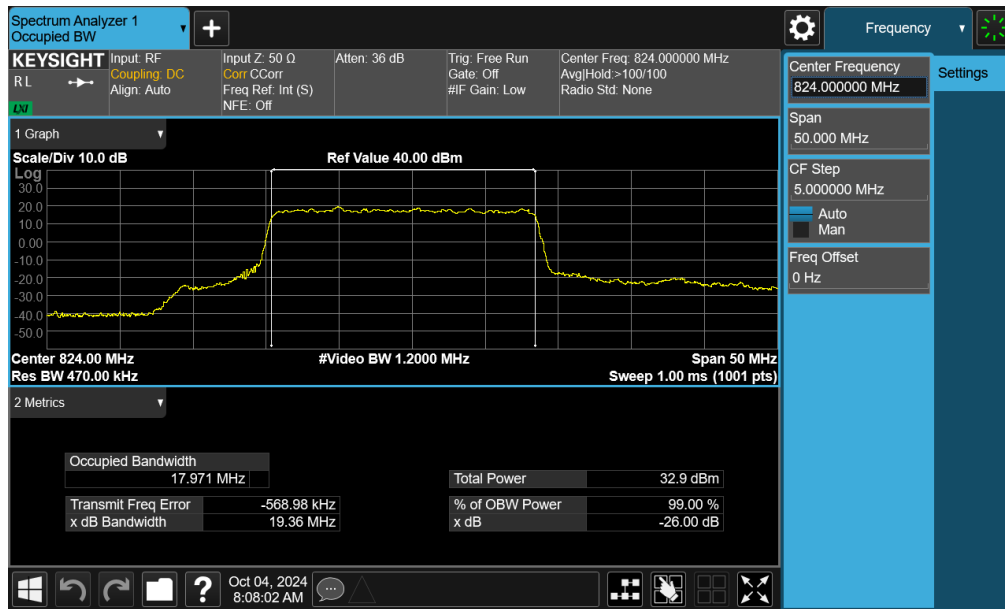
Plot 7-27. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB)



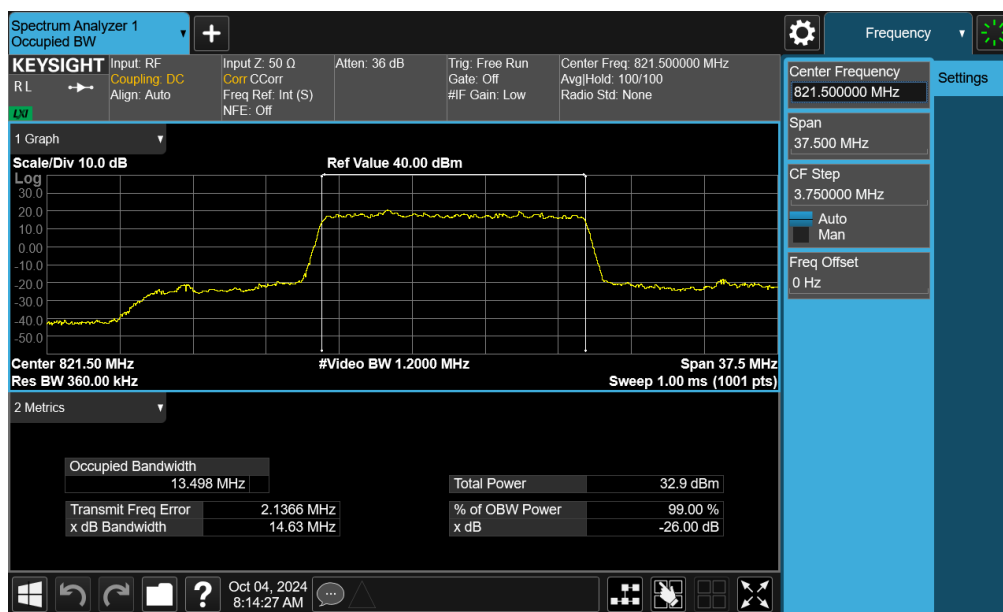
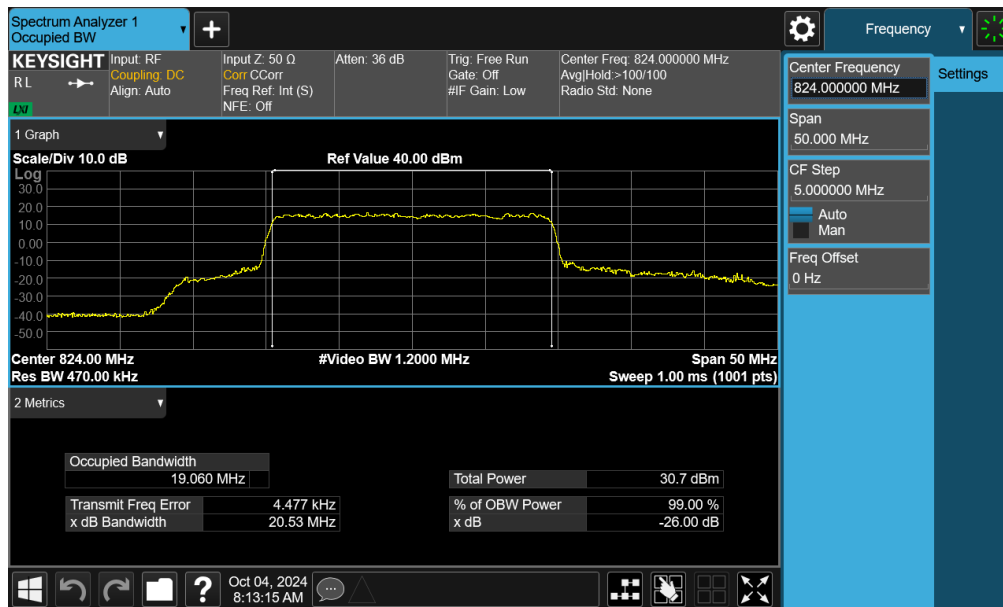
Plot 7-28. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 31 of 128

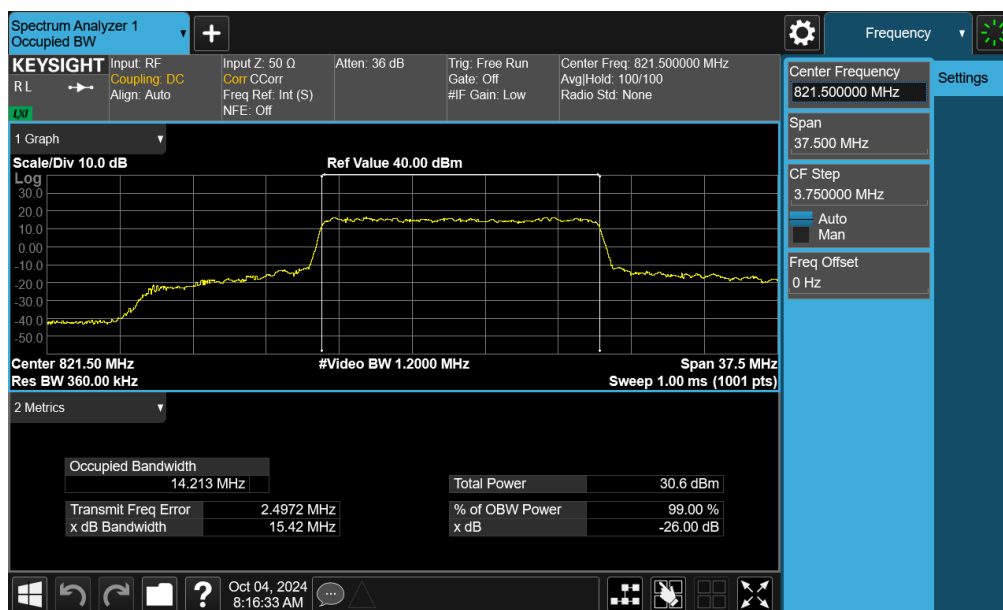
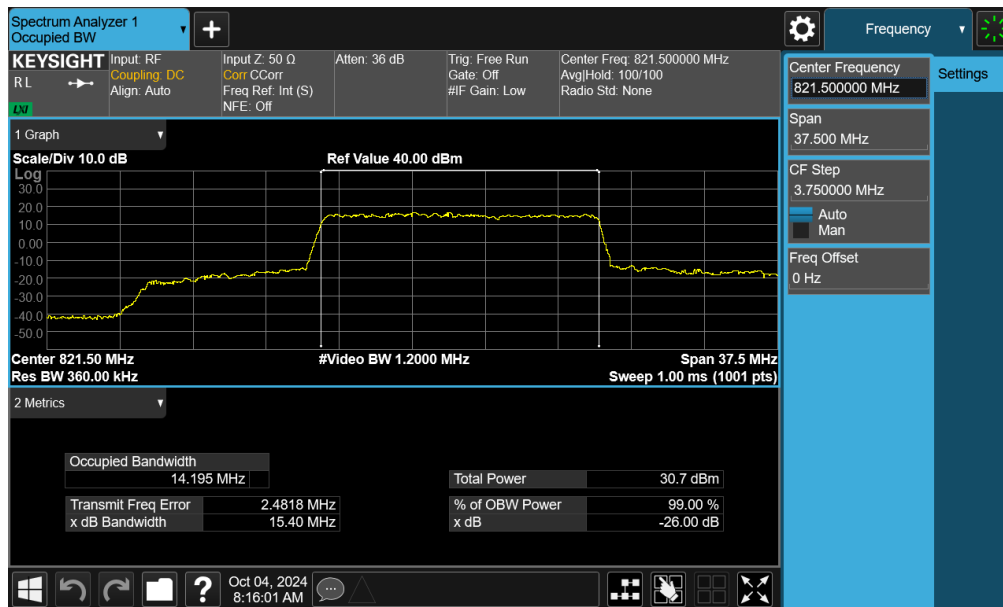
NR Band n26 - Ant E



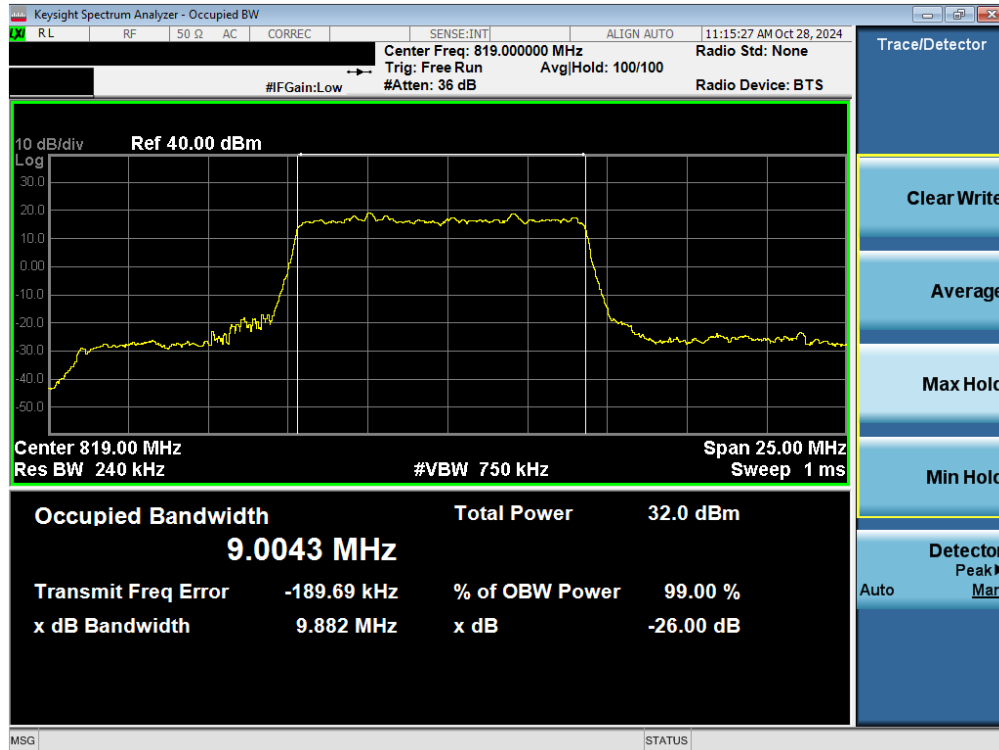
FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 32 of 128



FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 33 of 128



FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 34 of 128



Plot 7-35. Occupied Bandwidth Plot (NR Band n26 - 10MHz $\pi/2$ BPSK - Full RB)

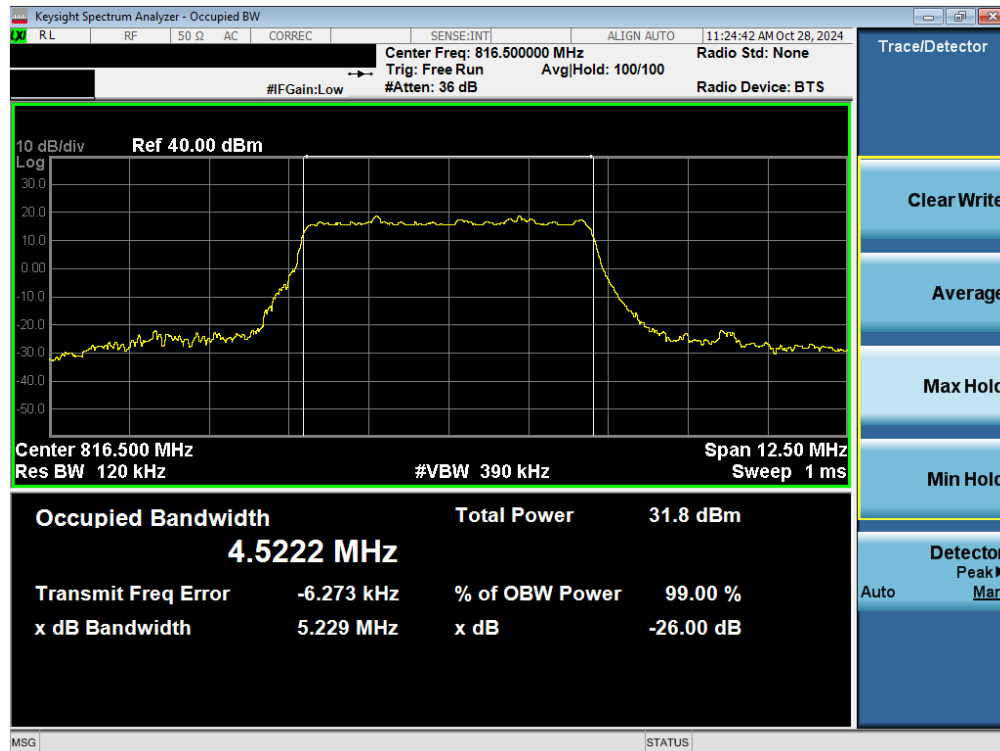


Plot 7-36. Occupied Bandwidth Plot (NR Band n26 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 35 of 128



Plot 7-37. Occupied Bandwidth Plot (NR Band n26 - 10MHz 16-QAM - Full RB)

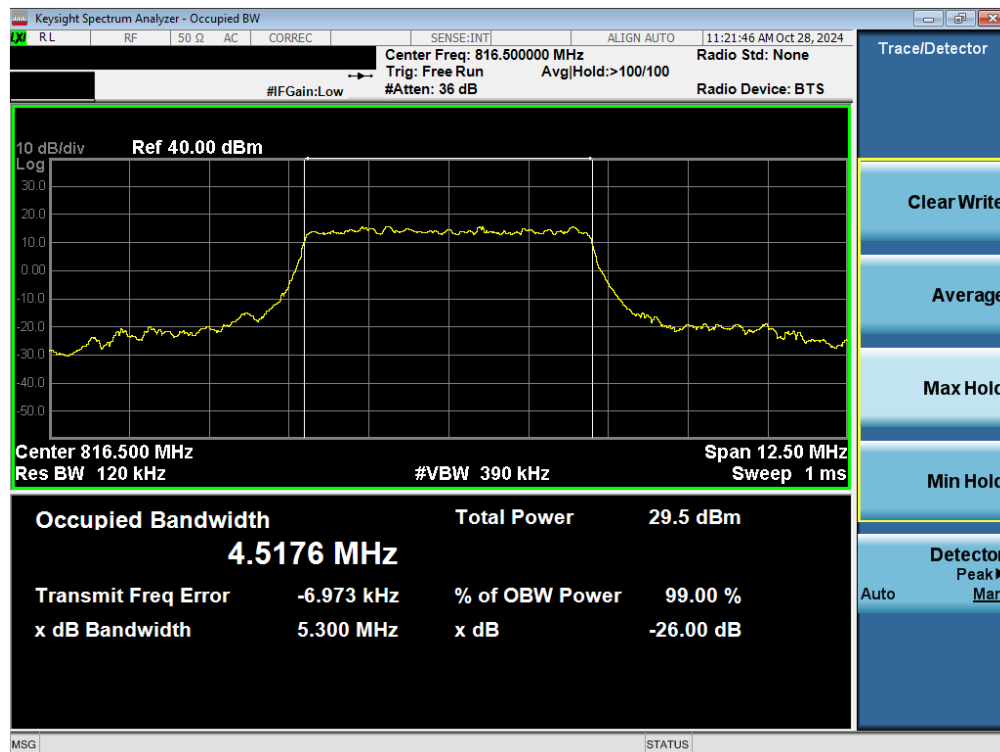


Plot 7-38. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK Low Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 36 of 128



Plot 7-39. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK High Channel - Full RB)



Plot 7-40. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK Low Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 37 of 128

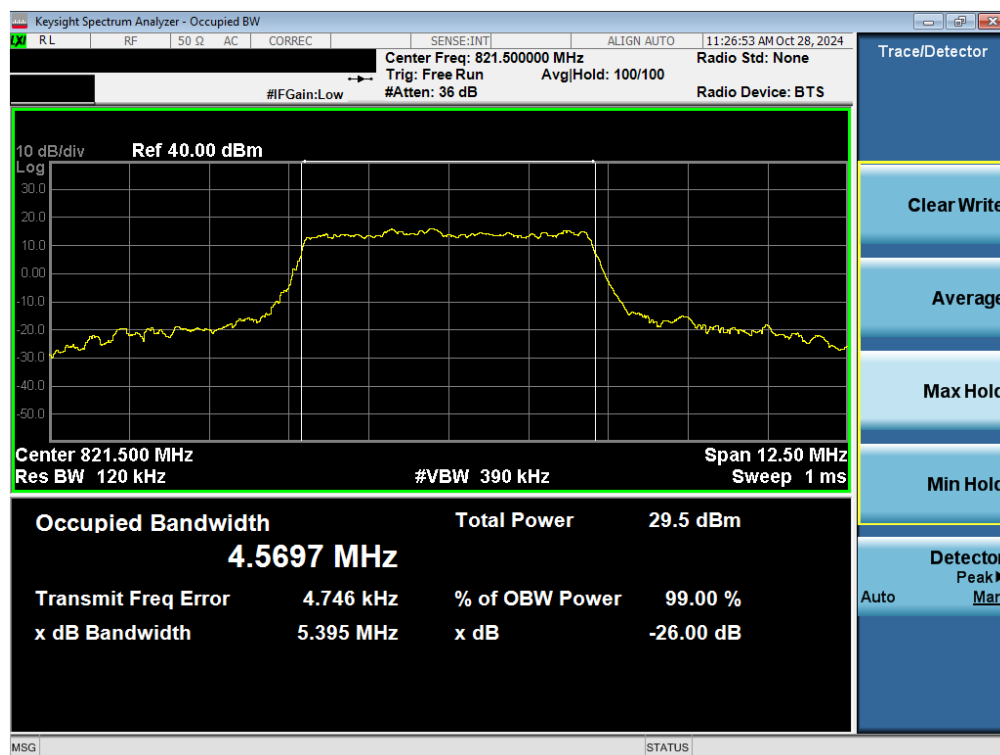


Plot 7-41. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK High Channel - Full RB)



Plot 7-42. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM Low Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 38 of 128



Plot 7-43. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM High Channel - Full RB)

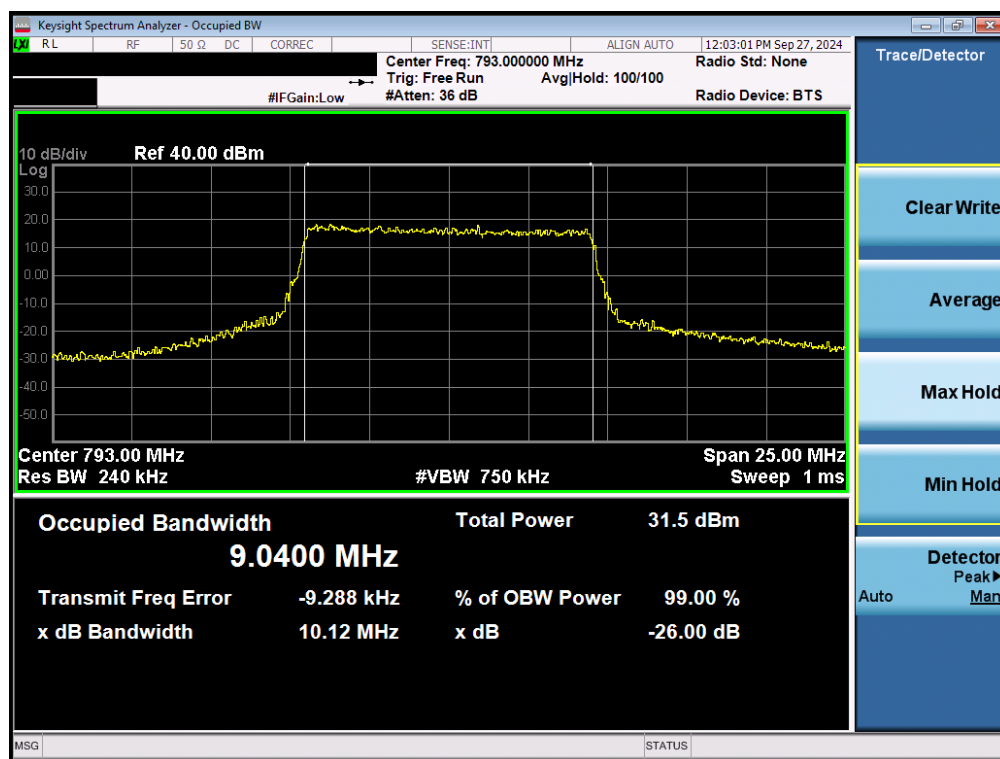
FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 39 of 128

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B14	10 MHz	QPSK	9.04
		16QAM	9.04
	5 MHz	QPSK	4.55
		16QAM	4.53
LTE-B26	15 MHz	QPSK	13.53
		16QAM	13.50
	10 MHz	QPSK	9.05
		16QAM	9.04
	5 MHz	QPSK	4.53
		QPSK	4.55
		16QAM	4.54
		16QAM	4.54
	3 MHz	QPSK	2.72
		QPSK	2.72
		16QAM	2.72
		16QAM	2.73
	1.4 MHz	QPSK	1.11
		QPSK	1.11
		16QAM	1.10
		16QAM	1.12
NR-n14	10 MHz	$\pi/2$ BPSK	9.02
		QPSK	9.36
		16QAM	9.38
	5 MHz	$\pi/2$ BPSK	4.51
		QPSK	4.54
		16QAM	4.57
NR-n26	20 MHz	$\pi/2$ BPSK	17.98
		QPSK	18.98
		16QAM	19.06
	15 MHz	$\pi/2$ BPSK	13.49
		QPSK	14.17
		16QAM	14.20
	10 MHz	$\pi/2$ BPSK	9.02
		QPSK	9.36
		16QAM	9.37
	5 MHz	$\pi/2$ BPSK	4.52
		$\pi/2$ BPSK	4.53
		QPSK	4.52
		QPSK	4.53
		16QAM	4.60
		16QAM	4.58

Table 7-7. Occupied Bandwidth Test Results – Ant A

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 40 of 128

LTE Band 14 – Ant A

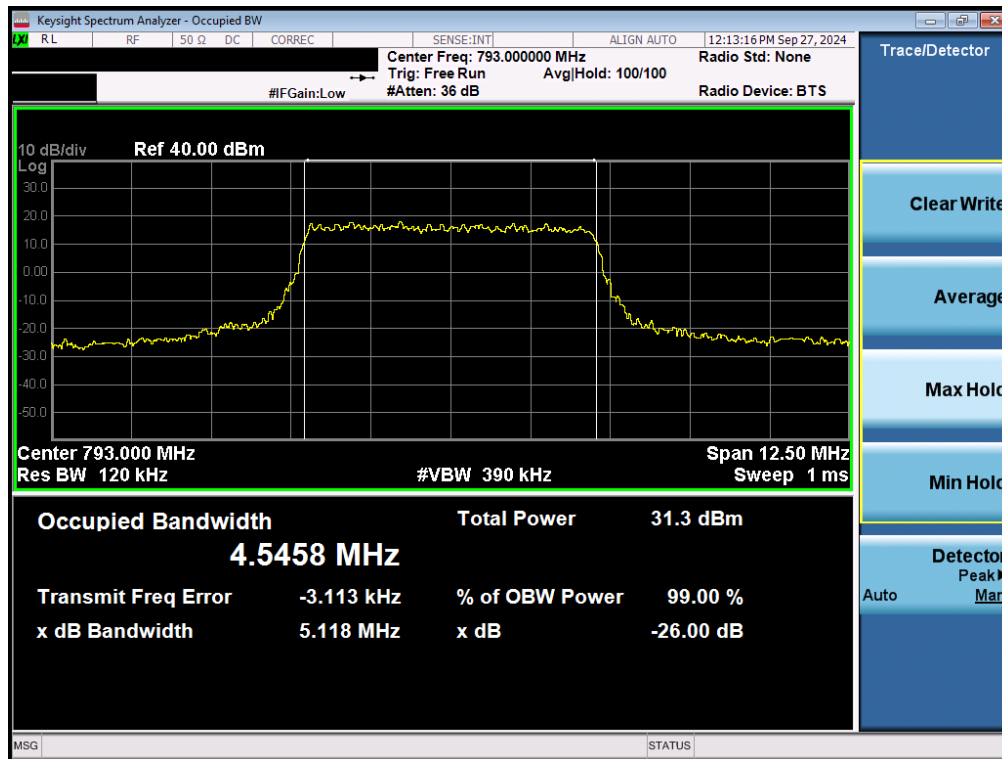


Plot 7-44. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)



Plot 7-45. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 41 of 128



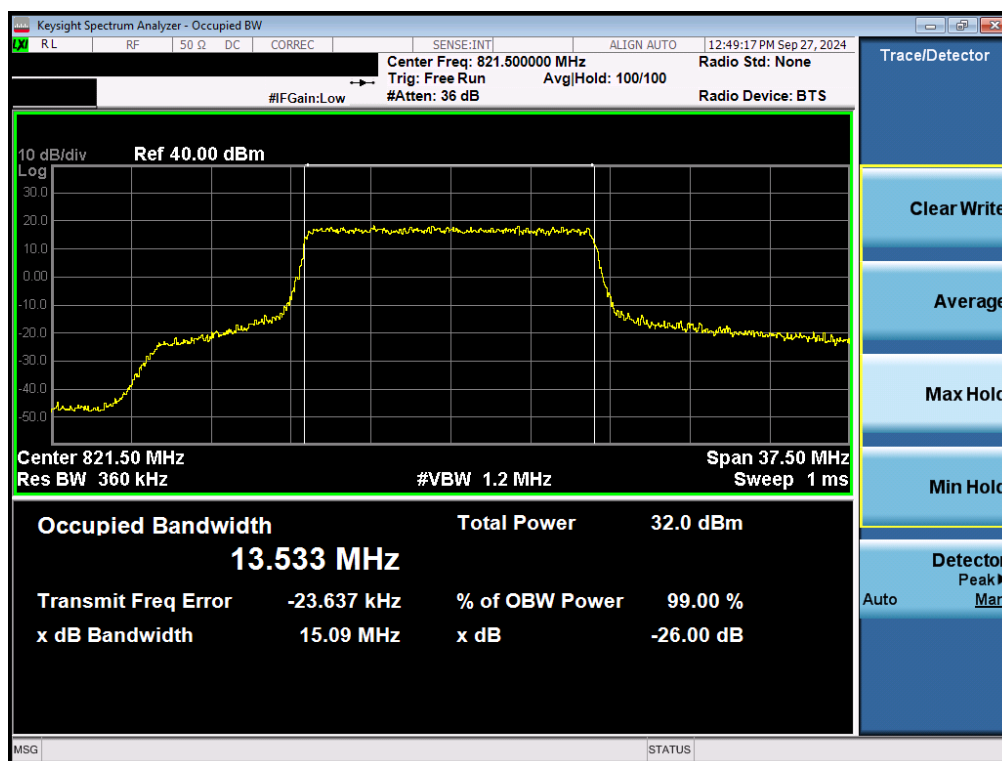
Plot 7-46. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB)



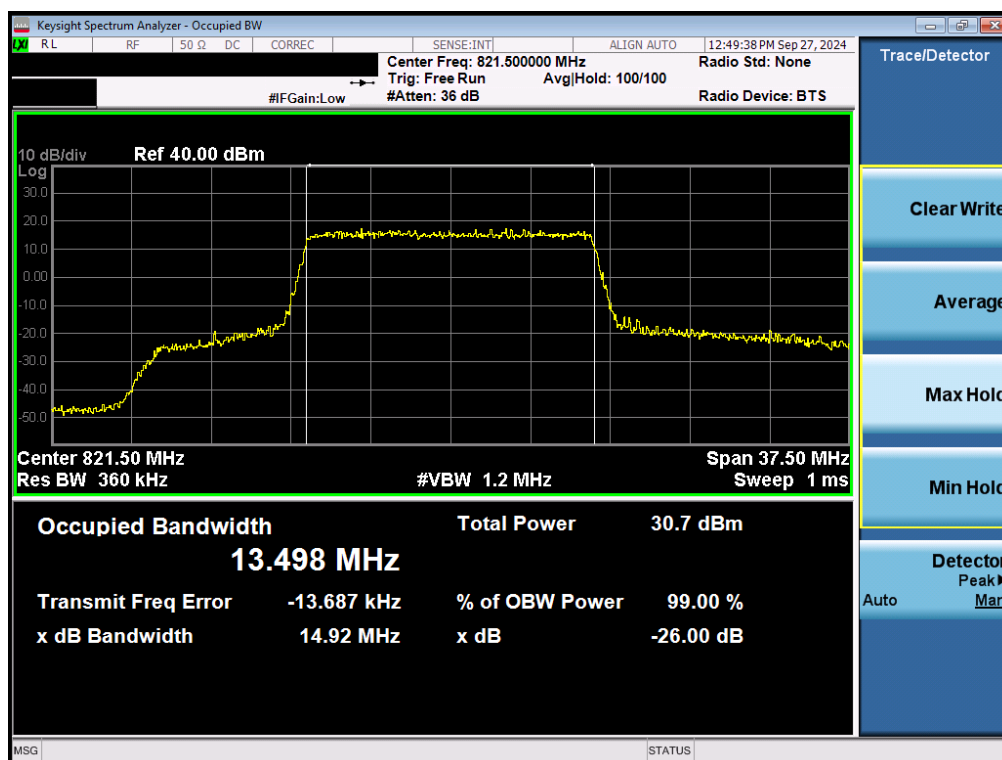
Plot 7-47. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 42 of 128

LTE Band 26 – Ant A

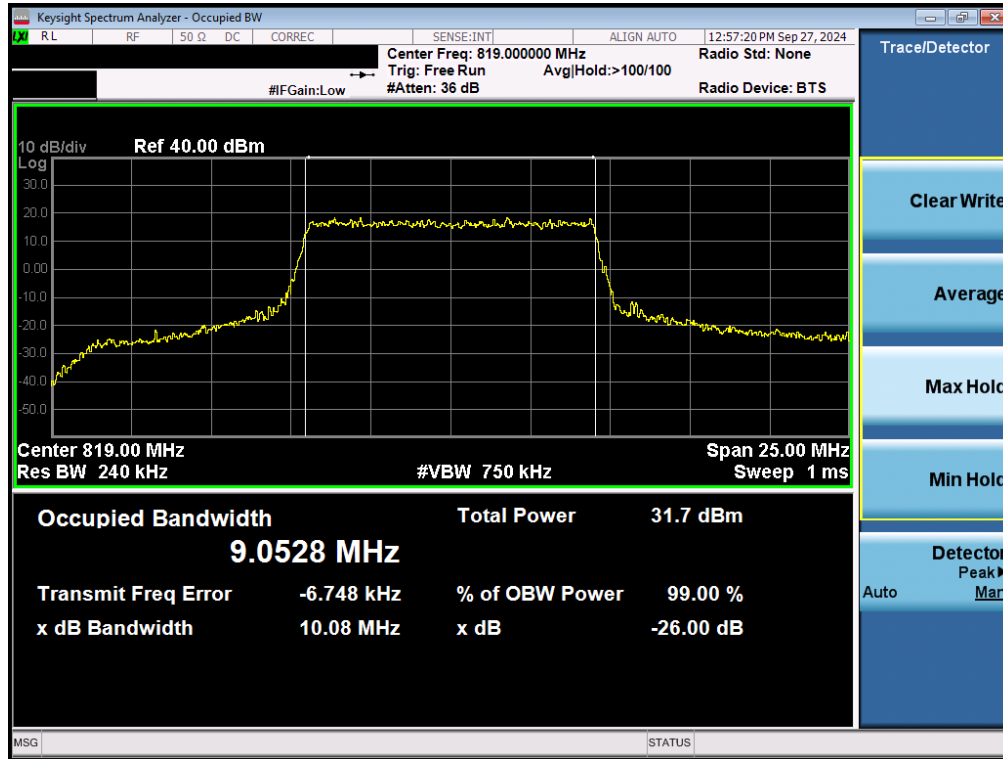


Plot 7-48. Occupied Bandwidth Plot (LTE Band 26 - 15MHz QPSK - Full RB)



Plot 7-49. Occupied Bandwidth Plot (LTE Band 26 - 15MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 43 of 128



Plot 7-50. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)



Plot 7-51. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 44 of 128

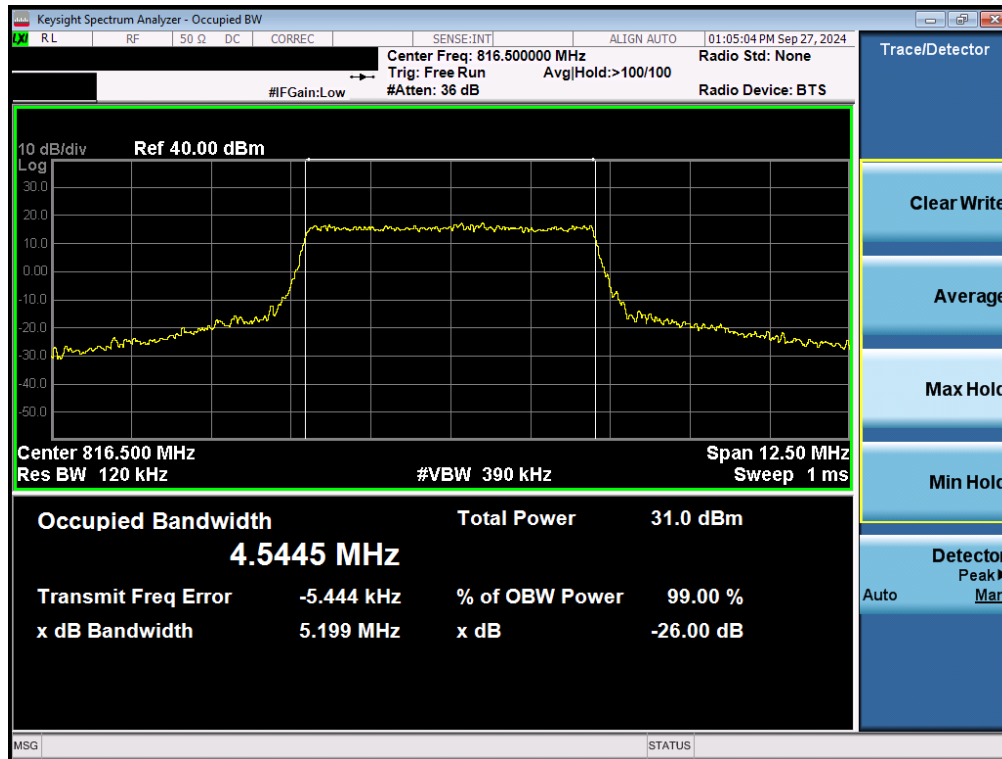


Plot 7-52. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK Low Channel- Full RB)



Plot 7-53. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 45 of 128

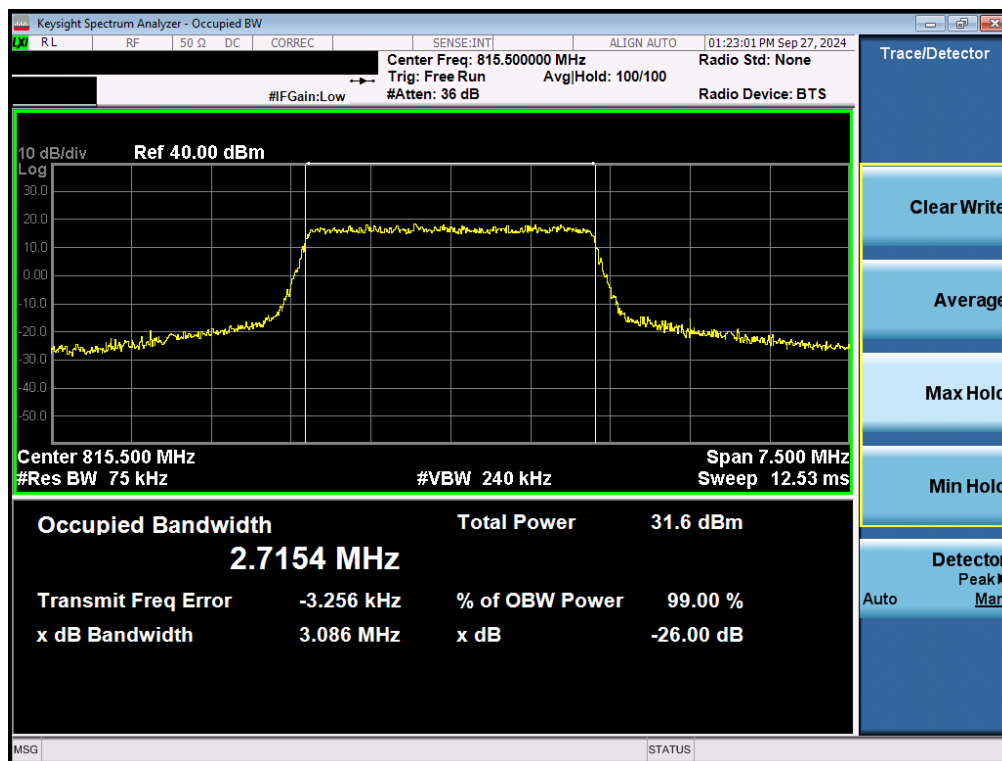


Plot 7-54. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM Low Channel - Full RB)

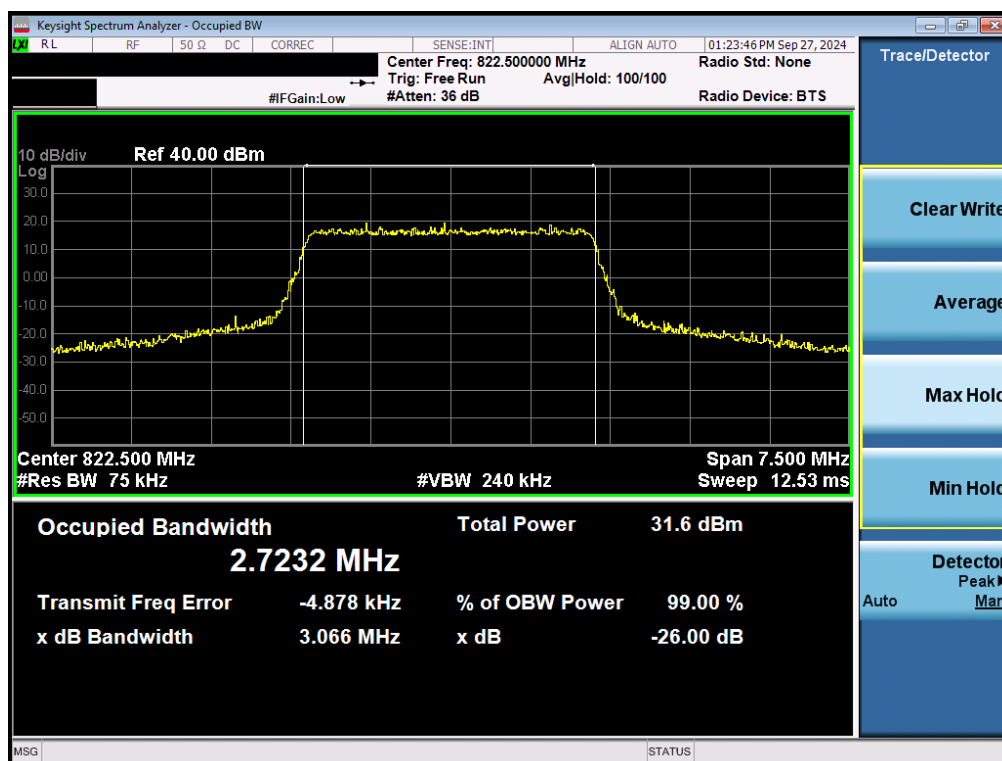


Plot 7-55. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 46 of 128



Plot 7-56. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK Low Channel- Full RB)



Plot 7-57. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 47 of 128

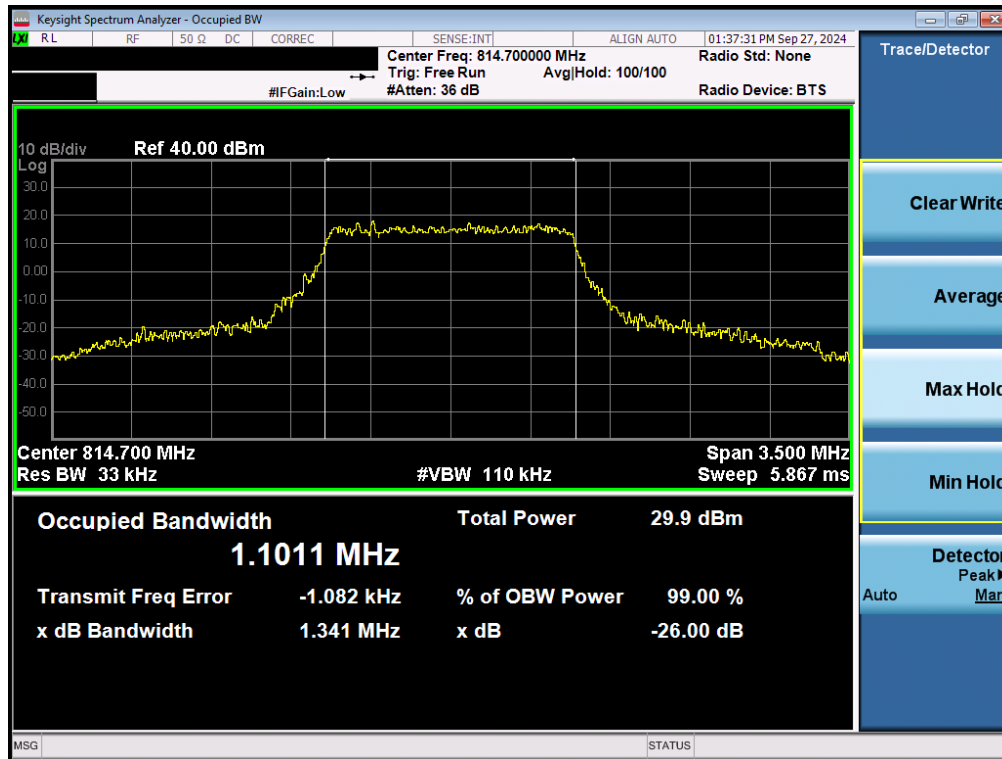


Plot 7-58. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM Low Channel - Full RB)

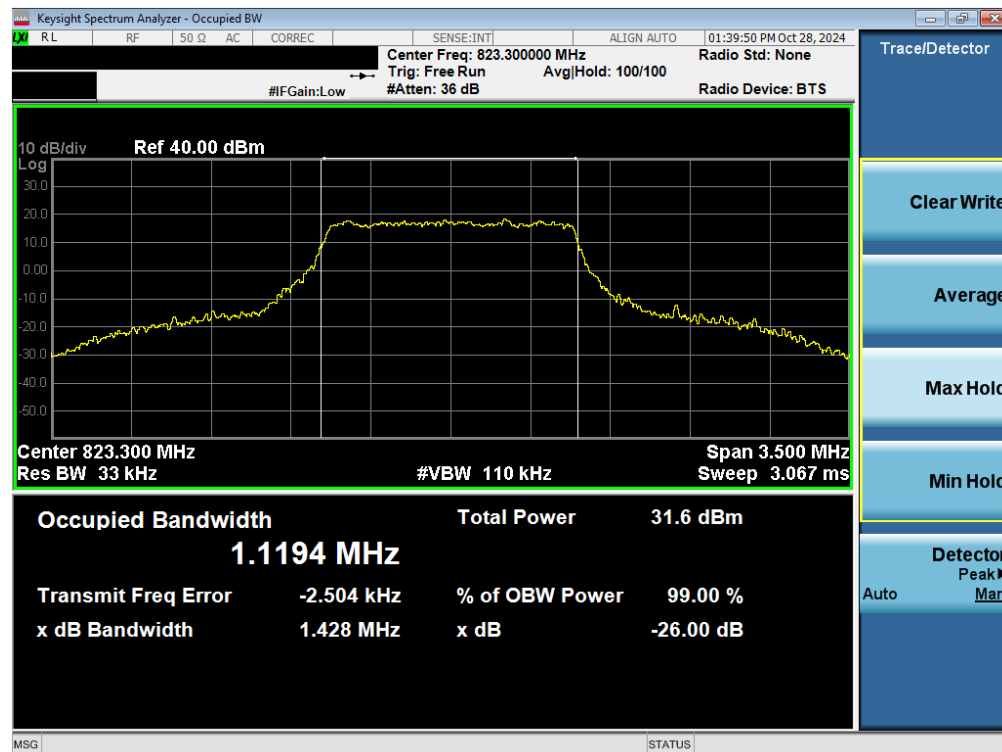


Plot 7-59. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 48 of 128

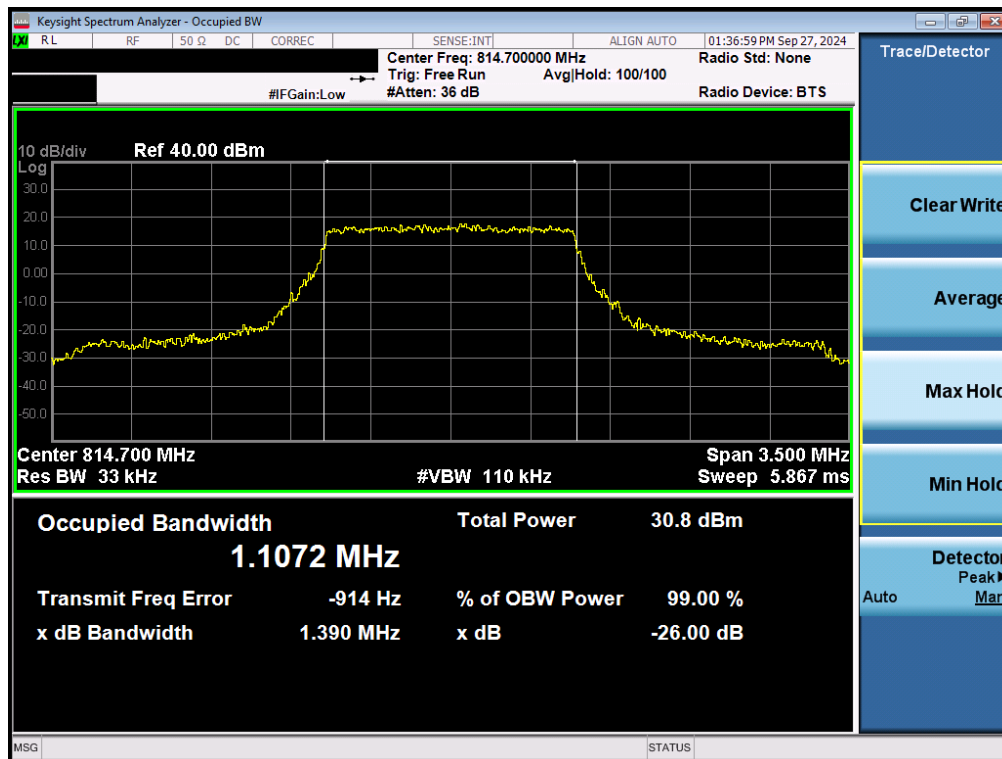


Plot 7-60. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



Plot 7-61. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 49 of 128

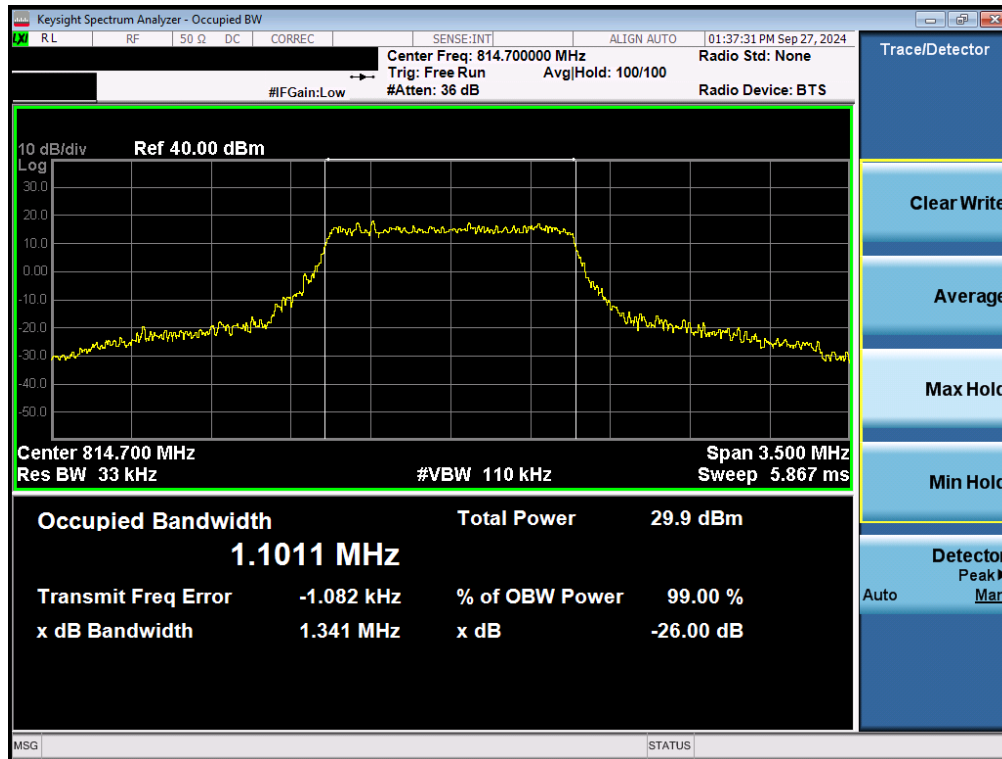


Plot 7-62. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK Low Channel- Full RB)

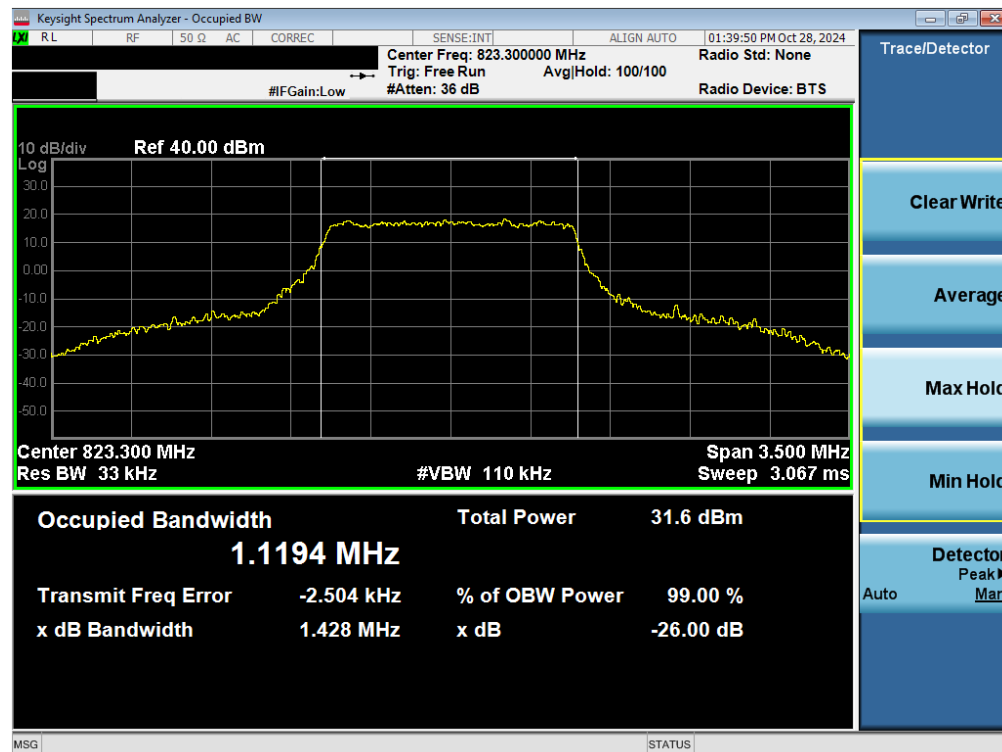


Plot 7-63. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz QPSK High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 50 of 128



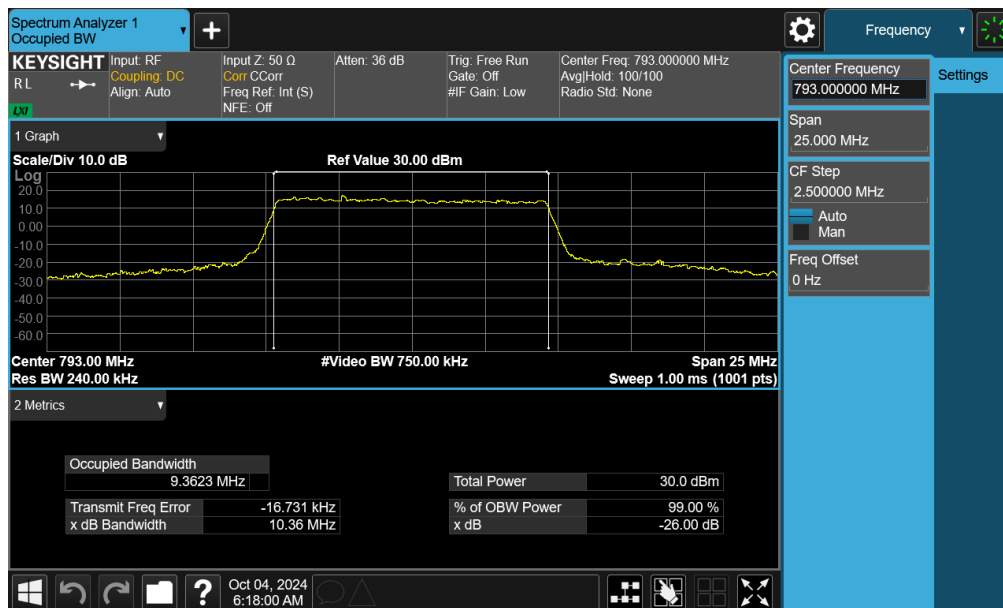
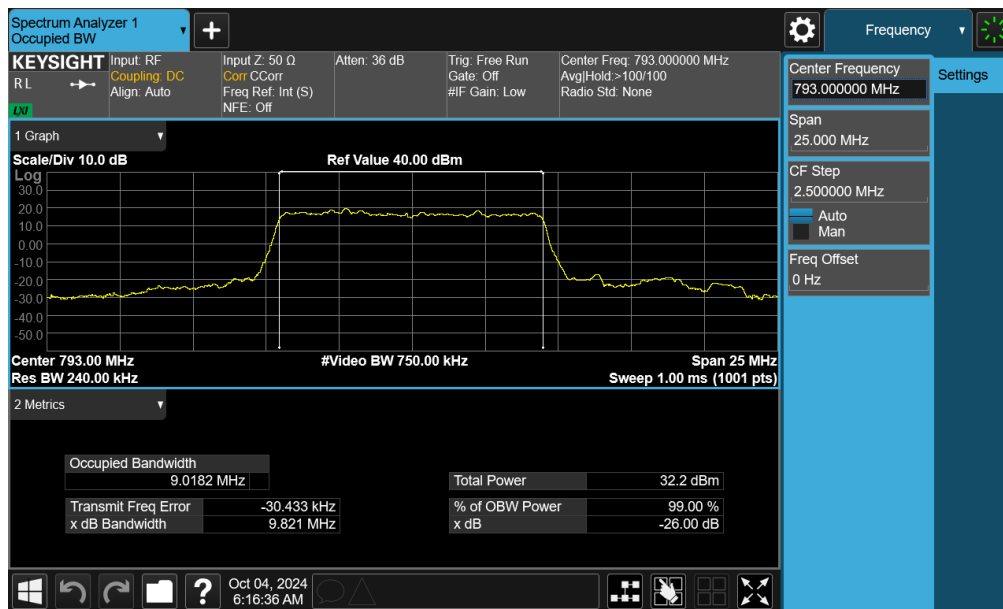
Plot 7-64. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM Low Channel - Full RB)



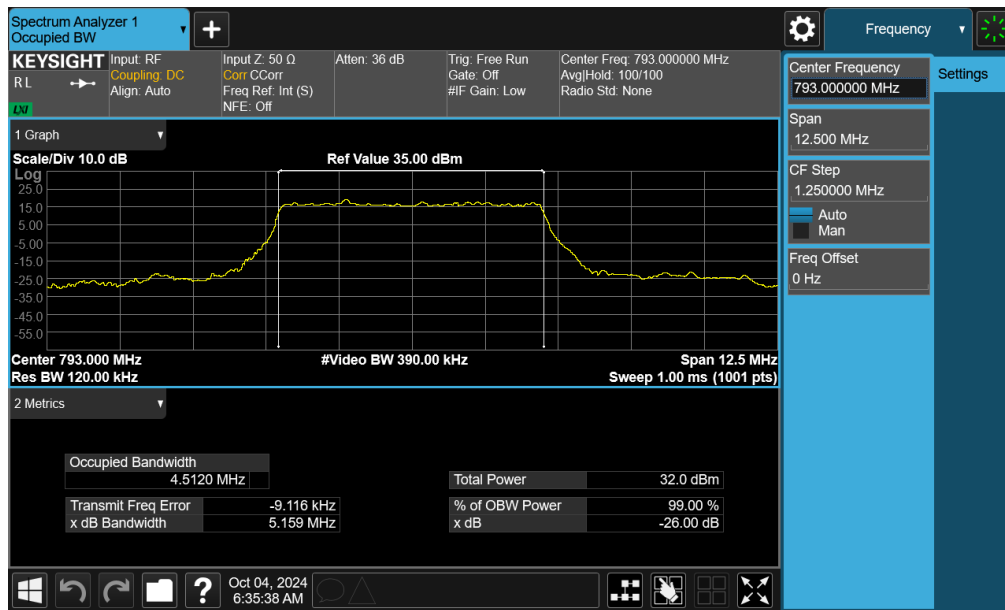
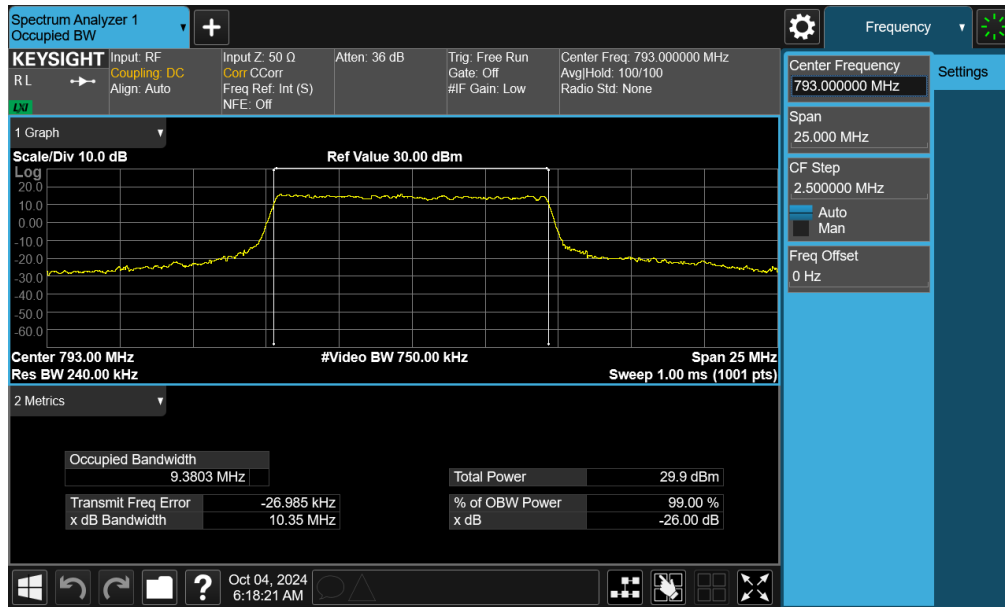
Plot 7-65. Occupied Bandwidth Plot (LTE Band 26 – 1.4MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 51 of 128

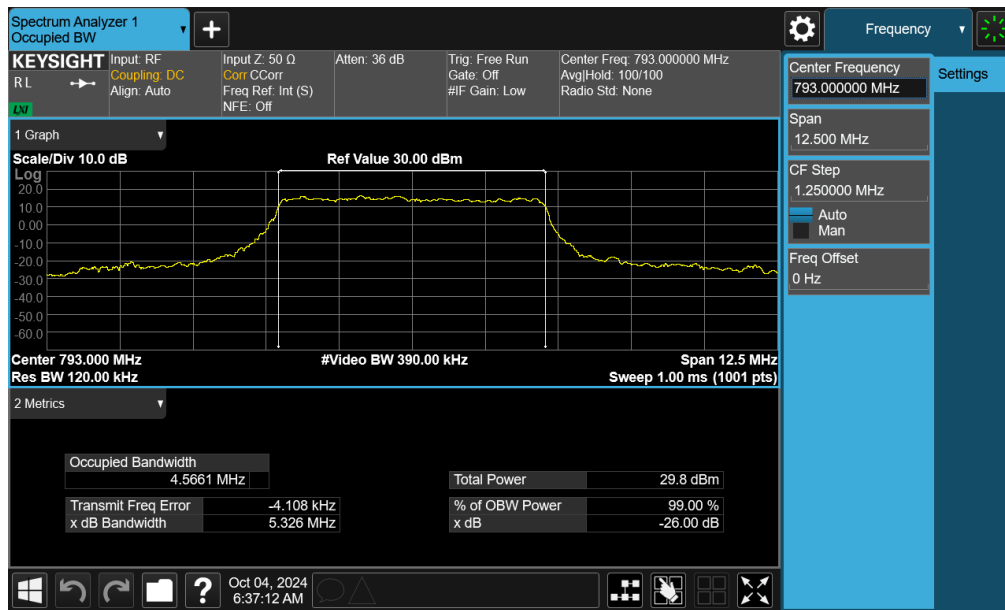
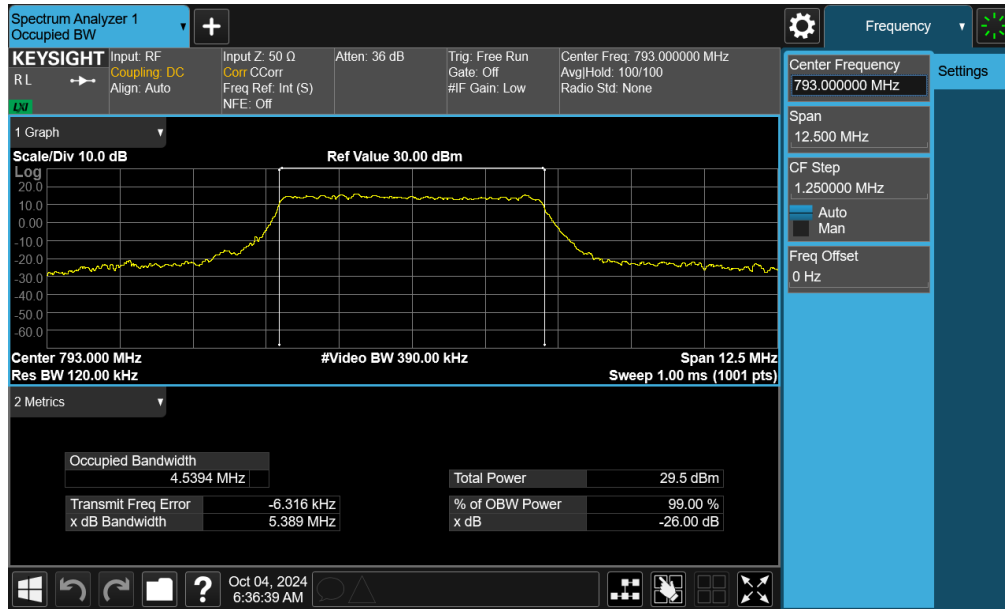
NR Band n14 – Ant A



FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 52 of 128

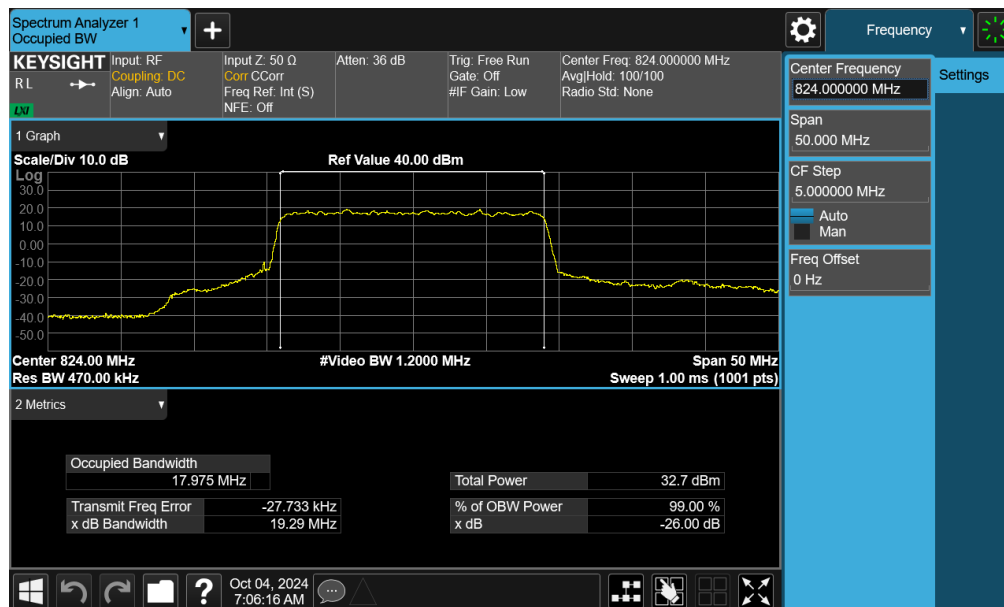


FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 53 of 128

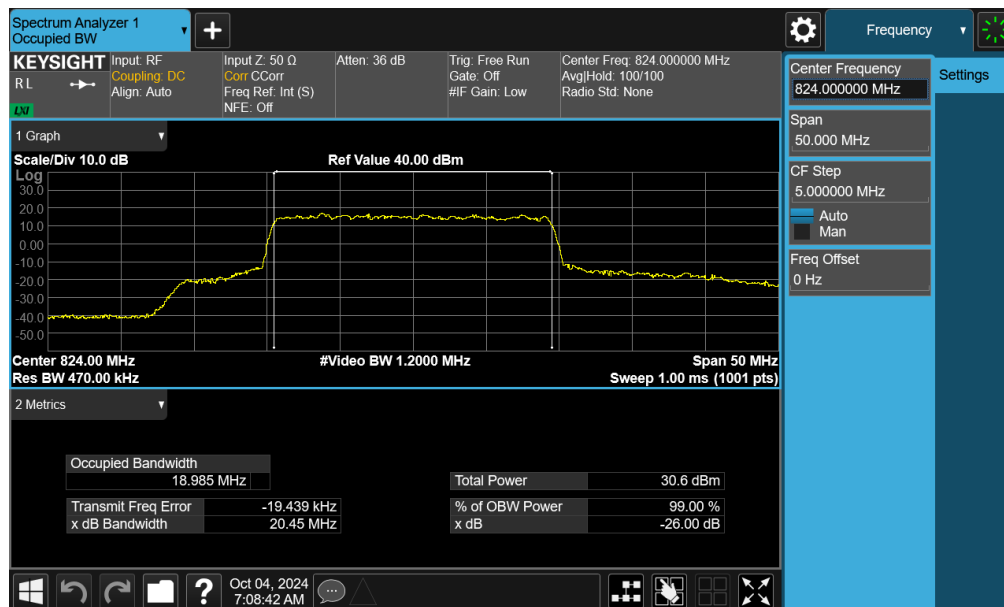


FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 54 of 128

NR Band n26 – Ant A

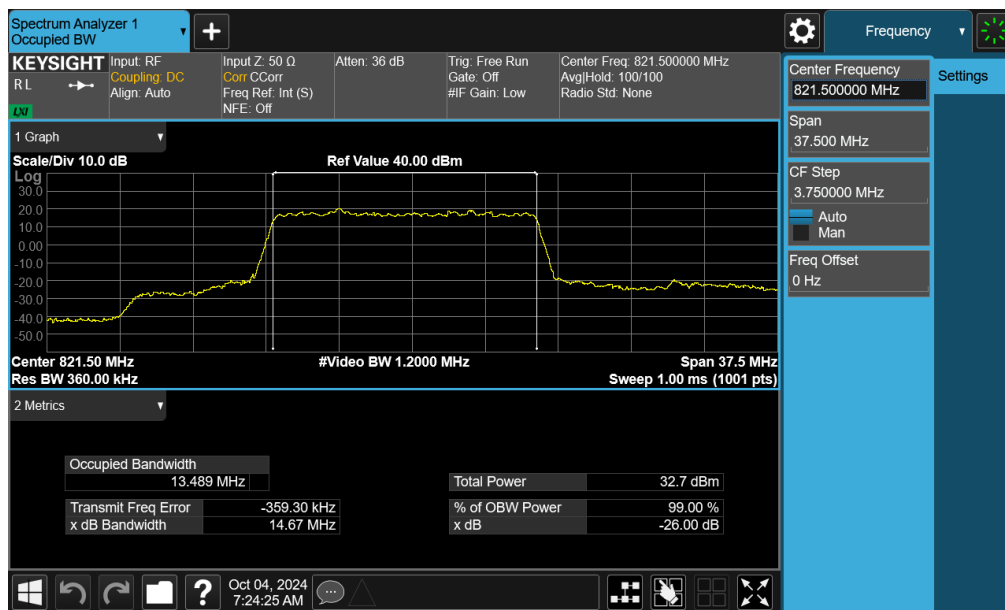
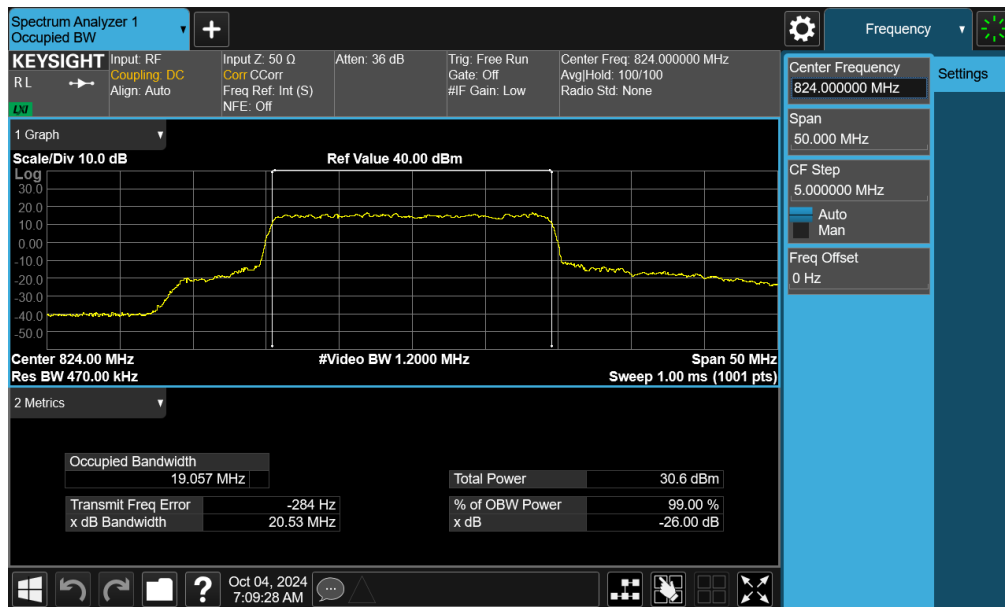


Plot 7-72. Occupied Bandwidth Plot (NR Band n26 - 20MHz $\pi/2$ BPSK - Full RB)

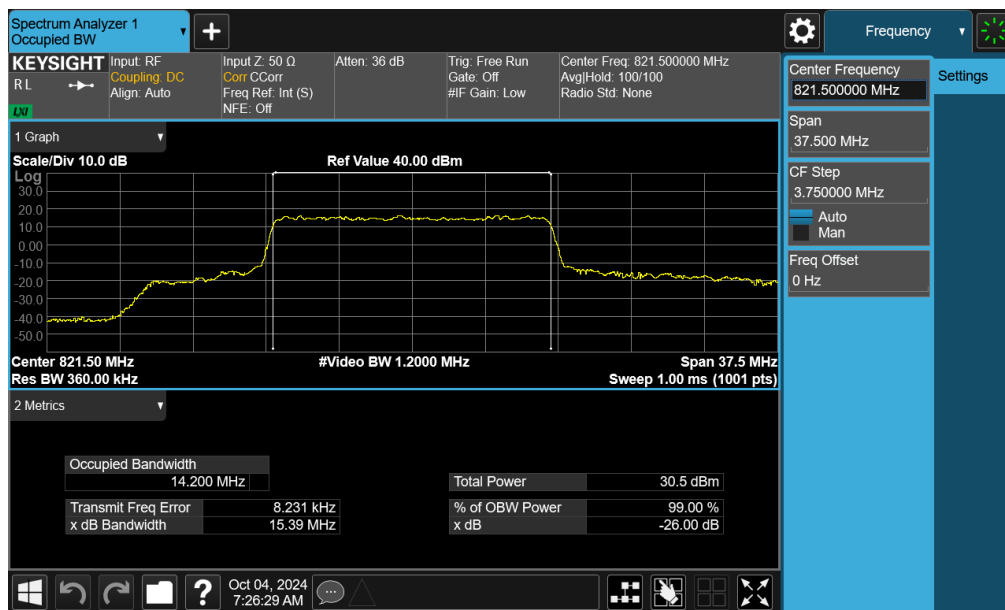
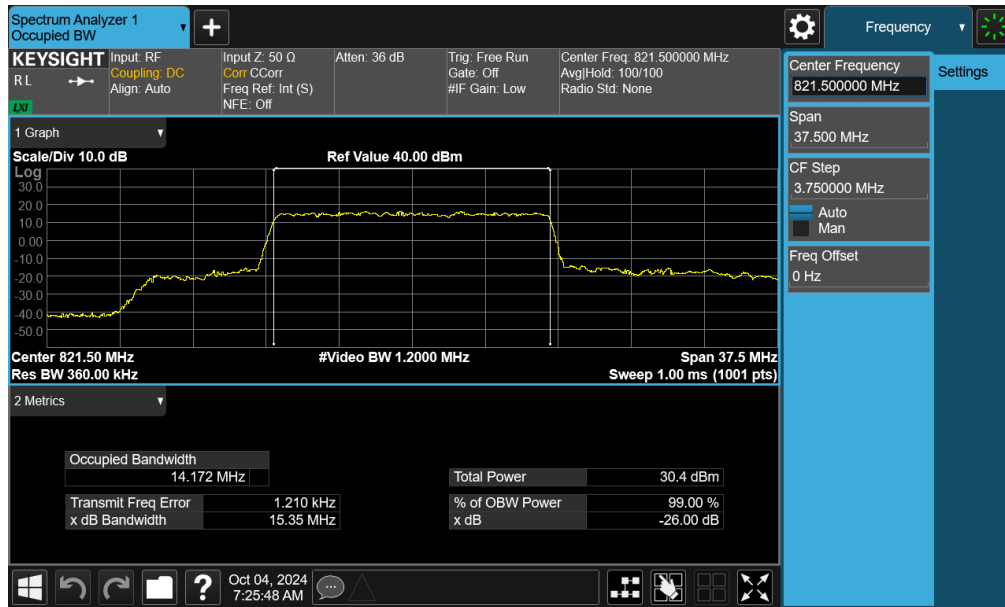


Plot 7-73. Occupied Bandwidth Plot (NR Band n26 - 20MHz QPSK - Full RB)

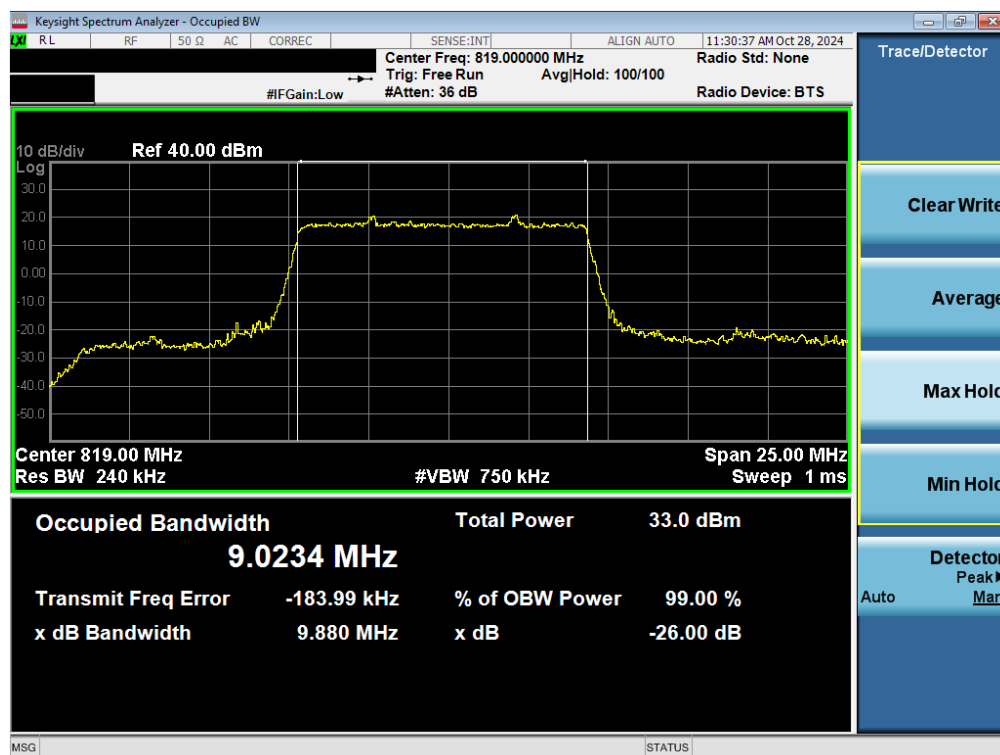
FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 55 of 128



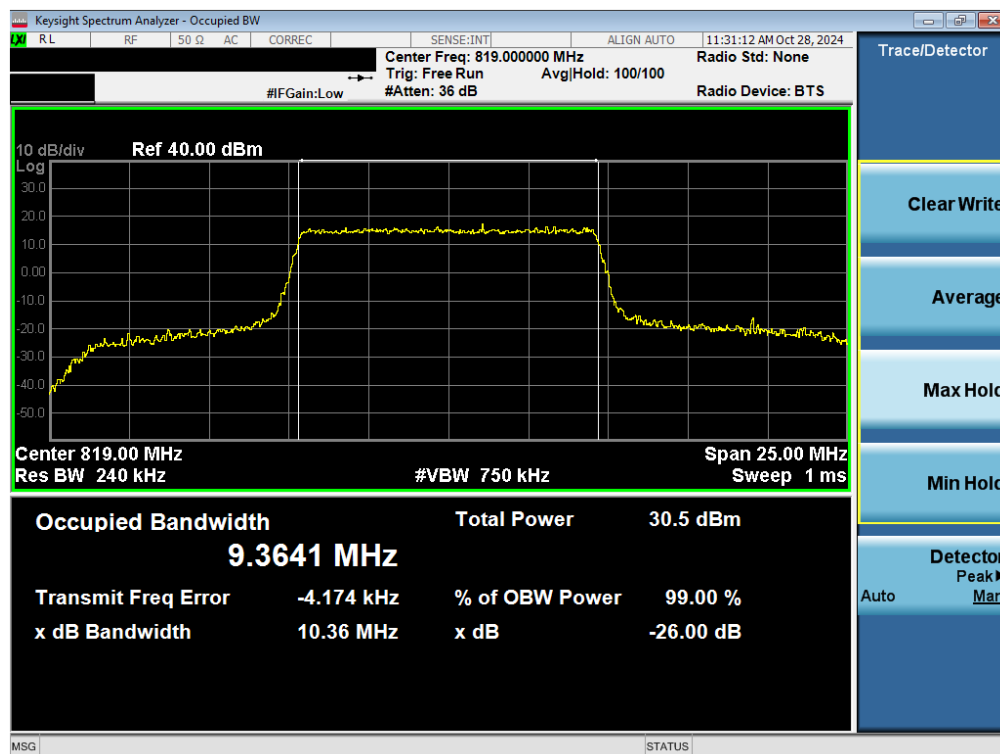
FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 56 of 128



FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 57 of 128

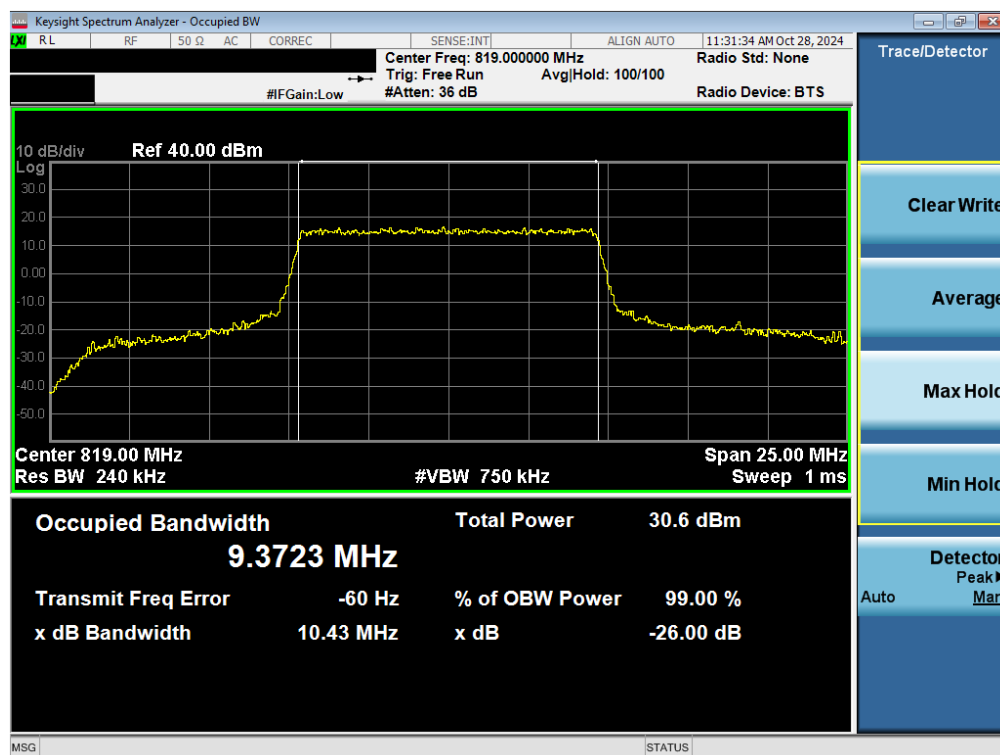


Plot 7-78. Occupied Bandwidth Plot (NR Band n26 - 10MHz $\pi/2$ BPSK - Full RB)

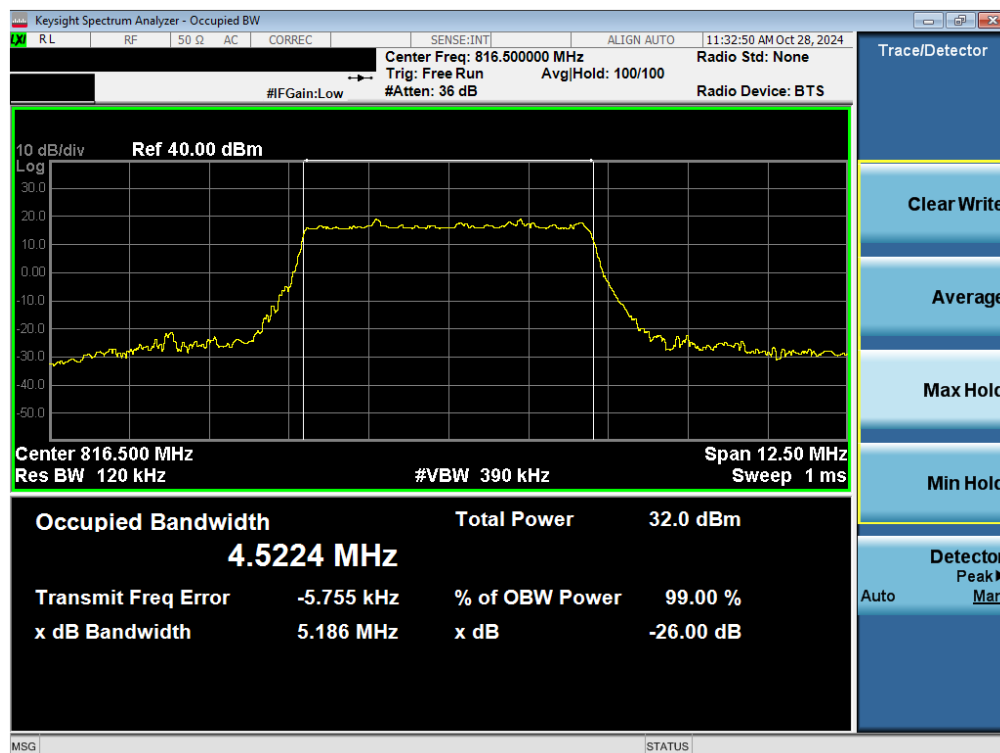


Plot 7-79. Occupied Bandwidth Plot (NR Band n26 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 58 of 128

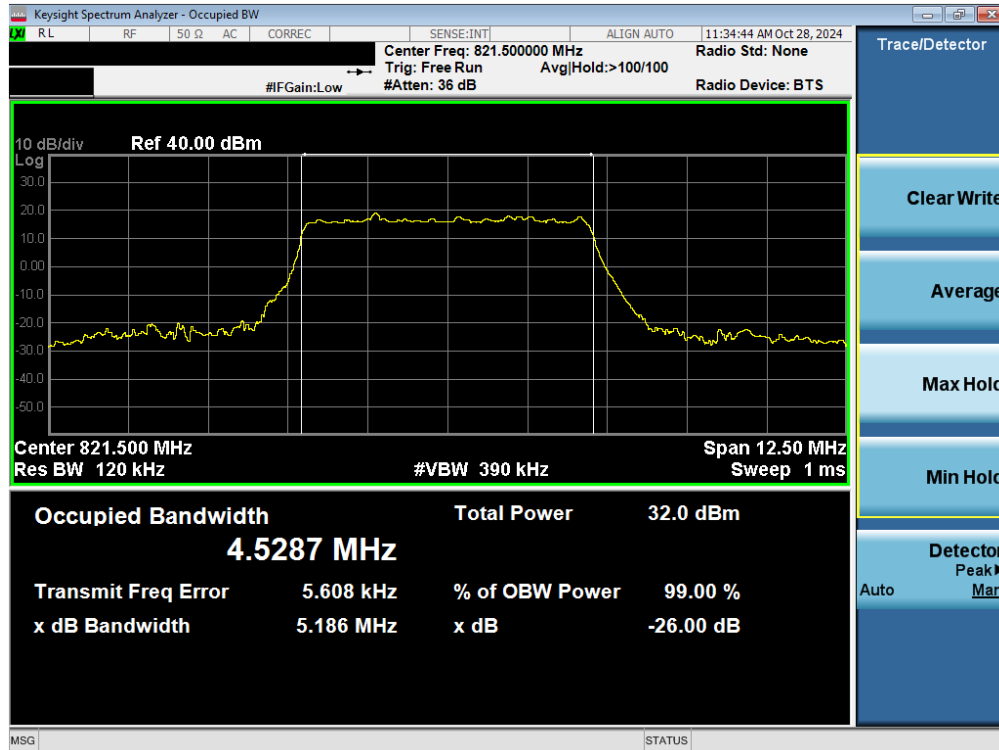


Plot 7-80. Occupied Bandwidth Plot (NR Band n26 - 10MHz 16-QAM - Full RB)



Plot 7-81. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK Low Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 59 of 128

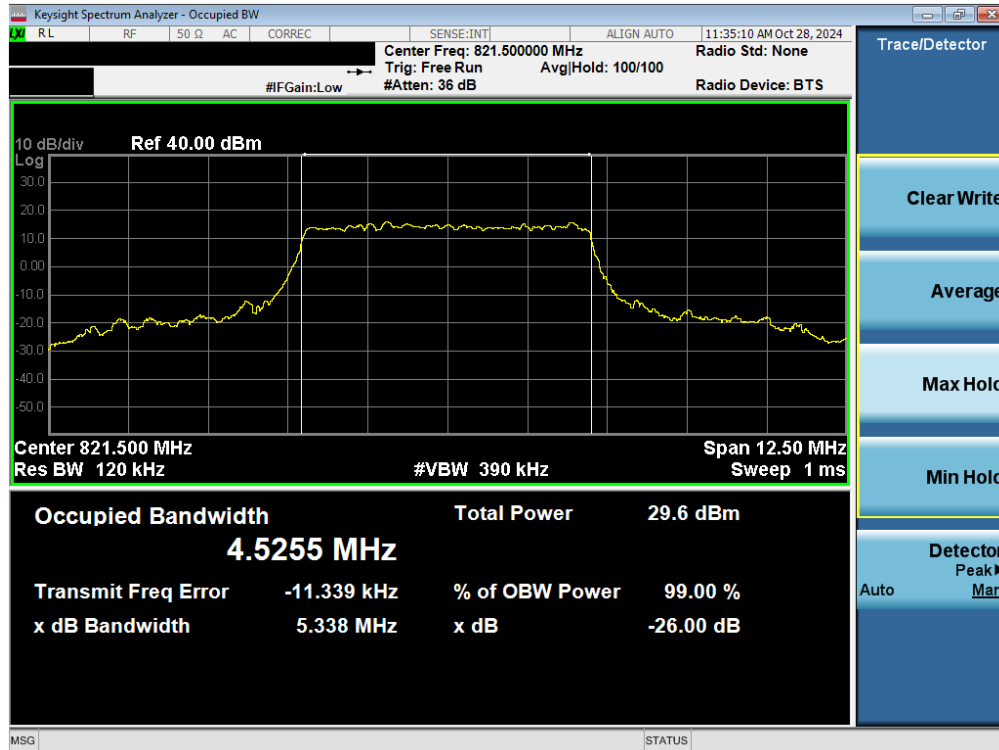


Plot 7-82. Occupied Bandwidth Plot (NR Band n26 - 5MHz $\pi/2$ BPSK High Channel - Full RB)

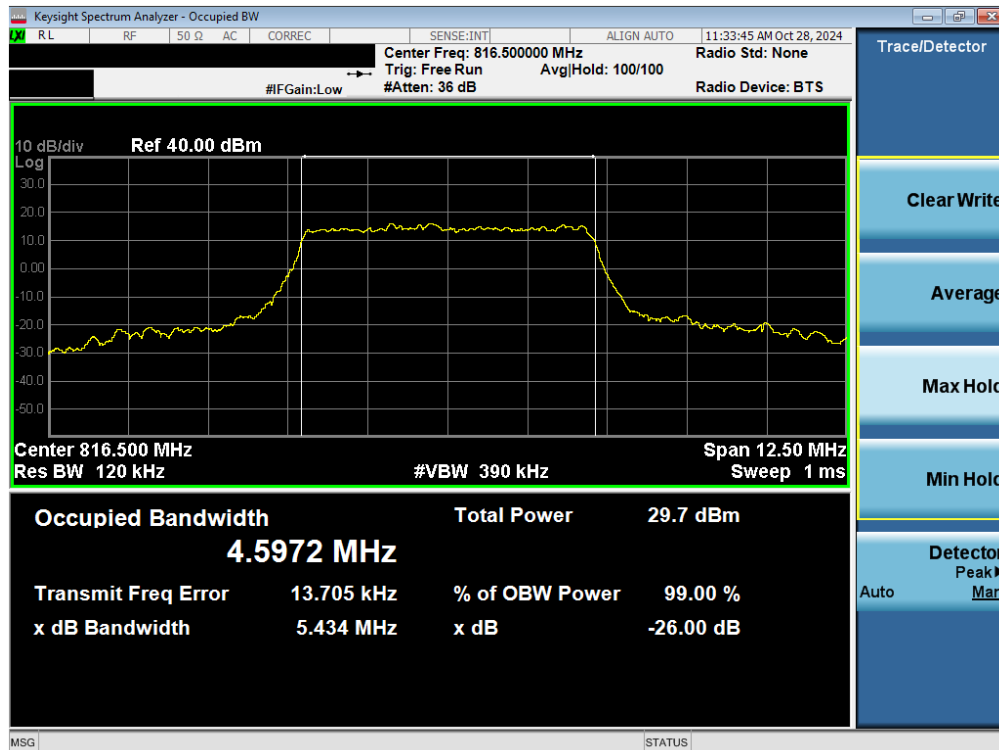


Plot 7-83. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK Low Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 60 of 128

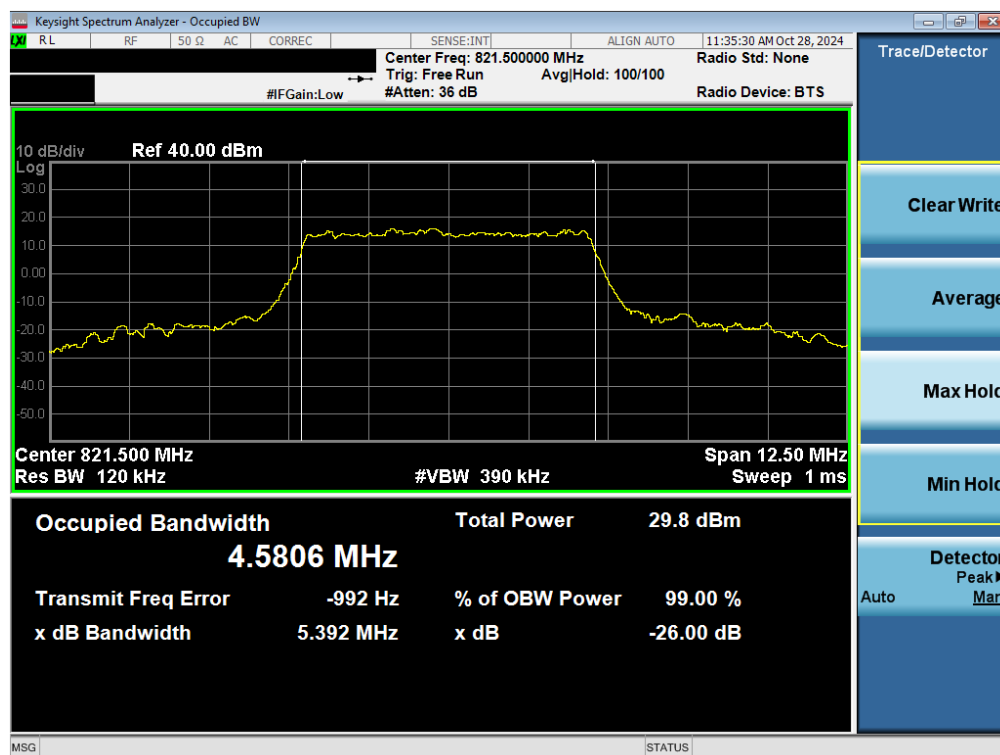


Plot 7-84. Occupied Bandwidth Plot (NR Band n26 - 5MHz QPSK High Channel - Full RB)



Plot 7-85. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM Low Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 61 of 128



Plot 7-86. Occupied Bandwidth Plot (NR Band n26 - 5MHz 16-QAM High Channel - Full RB)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 62 of 128

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.

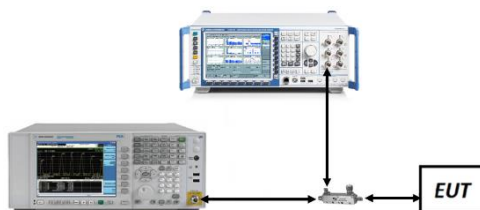


Figure 7-3. Test Instrument & Measurement Setup

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.

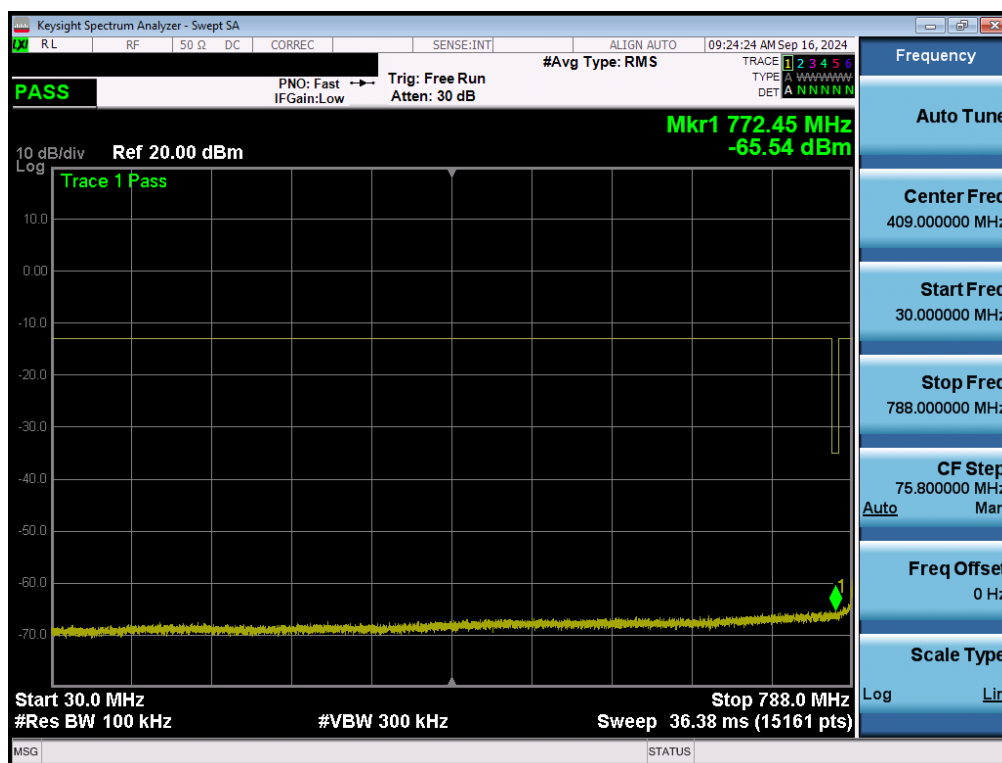
FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 63 of 128

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B14	10MHz	Mid	30.0 - 788.0	-65.54	-35	-30.54
		Mid	798.0 - 1000.0	-62.83	-35	-27.83
		Mid	1000.0 - 10000.0	-41.60	-13	-28.60
LTE-B26	15 MHz	Mid	30.0 - 814.0	-45.93	-13	-32.93
		Mid	824.0 - 1000.0	-29.36	-13	-16.36
		Mid	1000.0 - 10000.0	-41.29	-13	-28.29
NR-n26	20 MHz	Mid	30.0 - 814.0	-59.51	-13	-46.51
		Mid	824.0 - 1000.0	-51.73	-13	-38.73
		Mid	1000.0 - 10000.0	-43.37	-13	-30.37
NR-n14	10 MHz	Mid	30.0 - 788.0	-56.18	-25	-30.80
		Mid	824.0 - 1000.0	-61.70	-35	-26.70
		Mid	1000.0 - 10000.0	-43.93	-13	-30.93

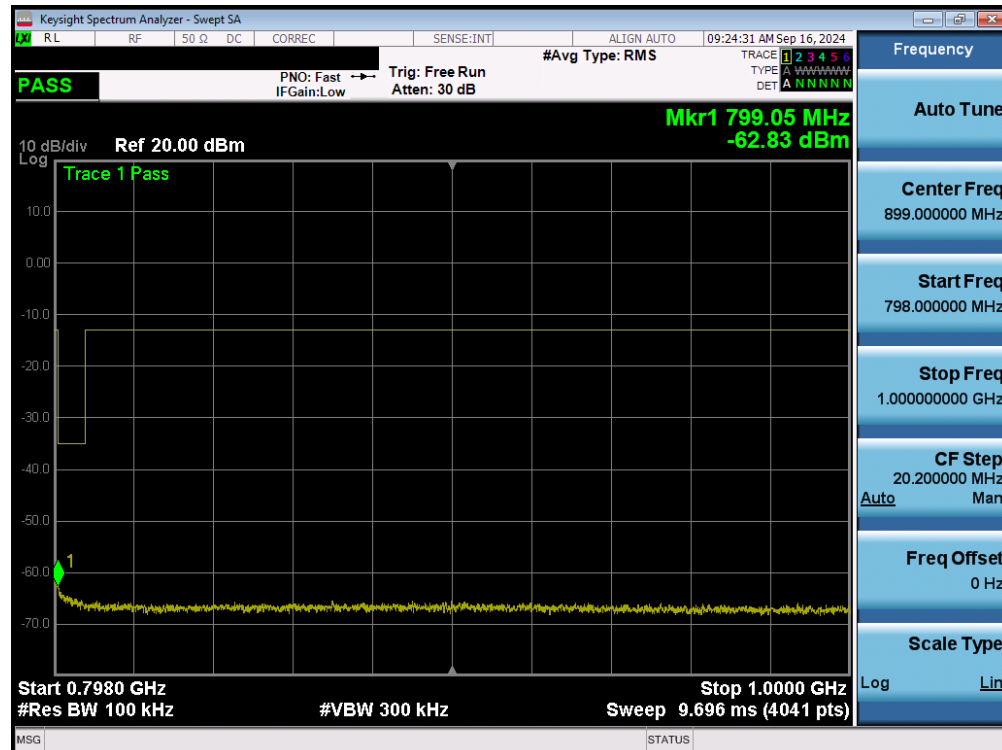
Table 7-8. Conducted Spurious Emission Results – ANT E

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 64 of 128

LTE Band 14 - Ant E

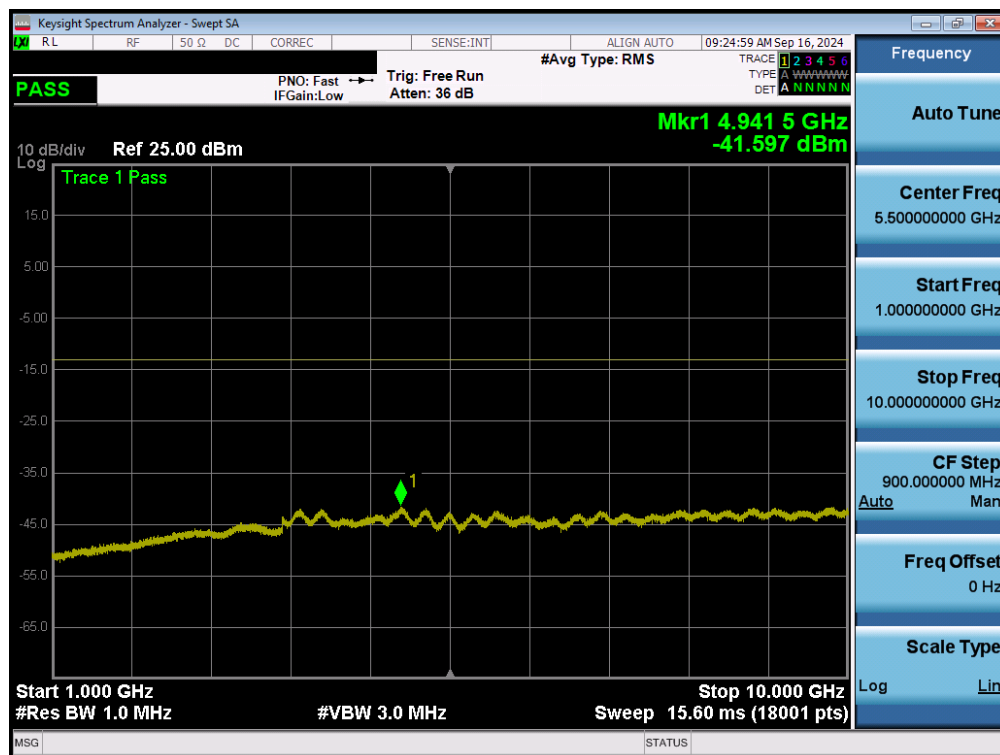


Plot 7-87. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25)



Plot 7-88. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25)

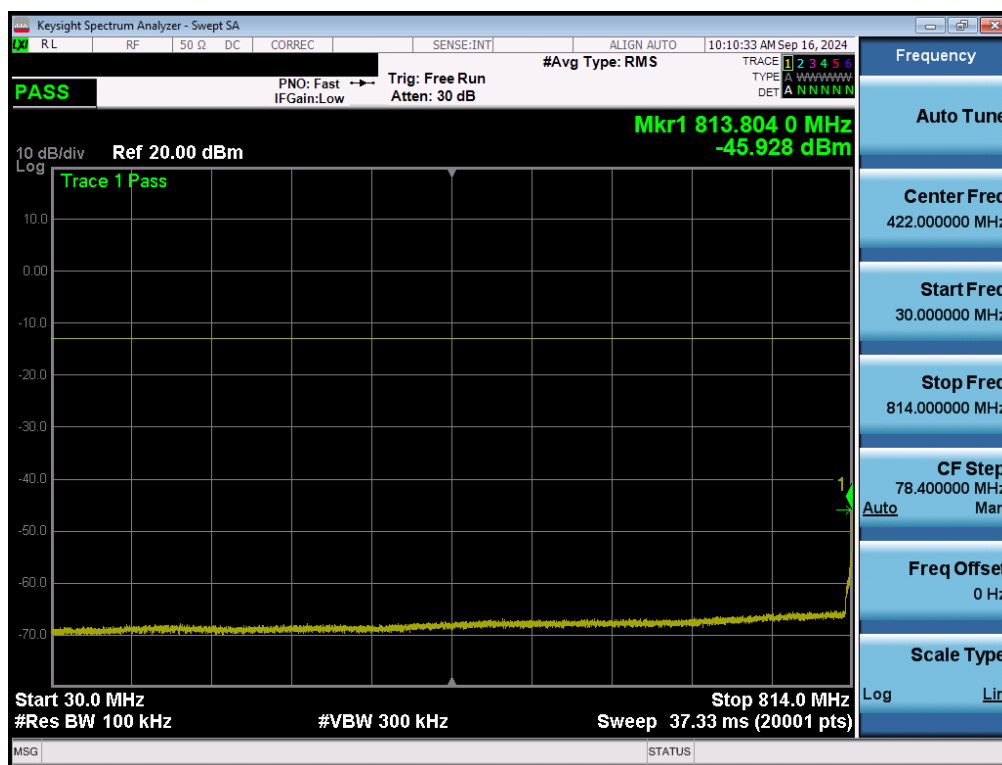
FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 65 of 128



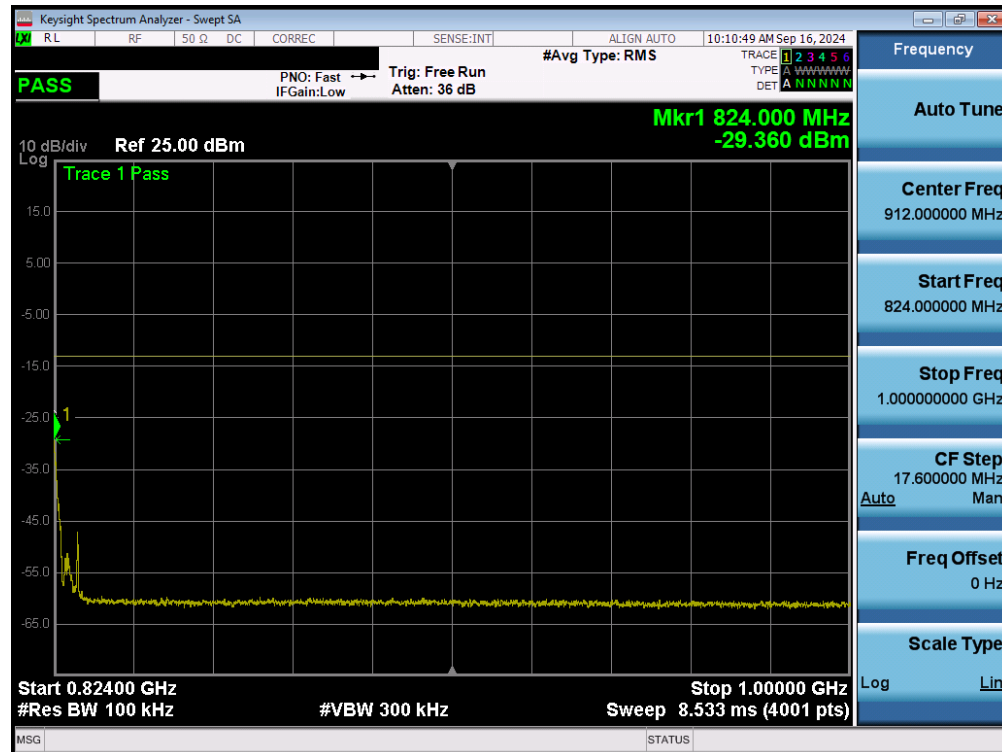
Plot 7-89. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 66 of 128

LTE Band 26 -Ant E

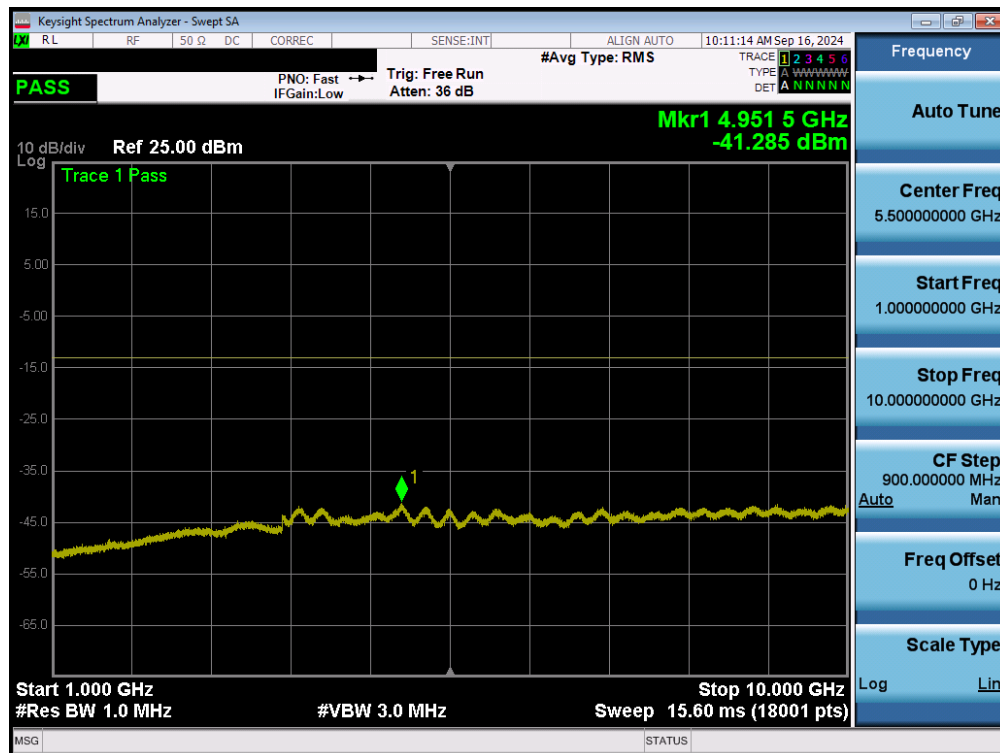


Plot 7-90. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)



Plot 7-91. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 67 of 128

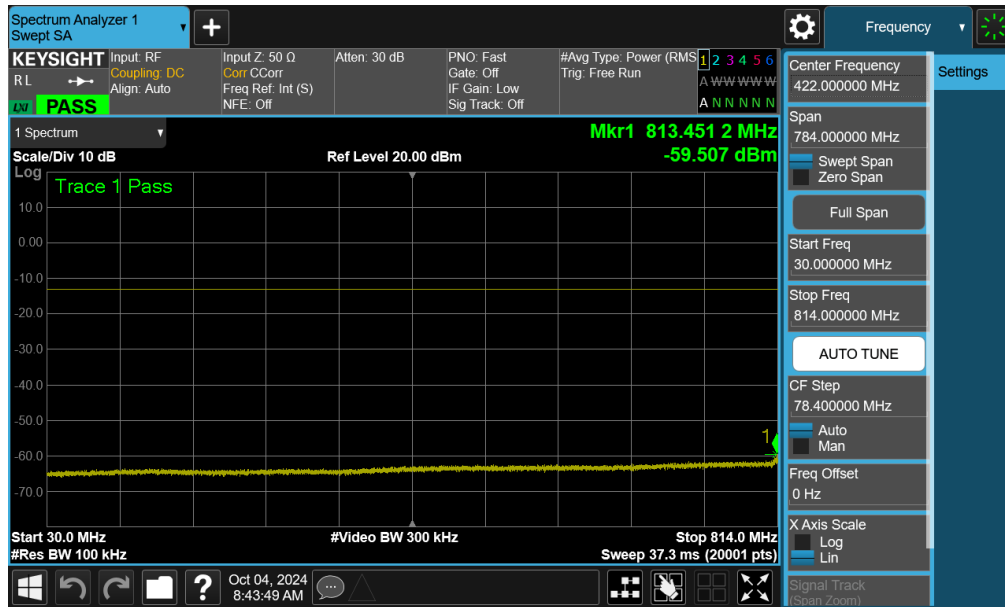


Plot 7-92. Conducted Spurious Plot (LTE Band 26 - 15MHz QPSK - RB Size 1, RB Offset 37)

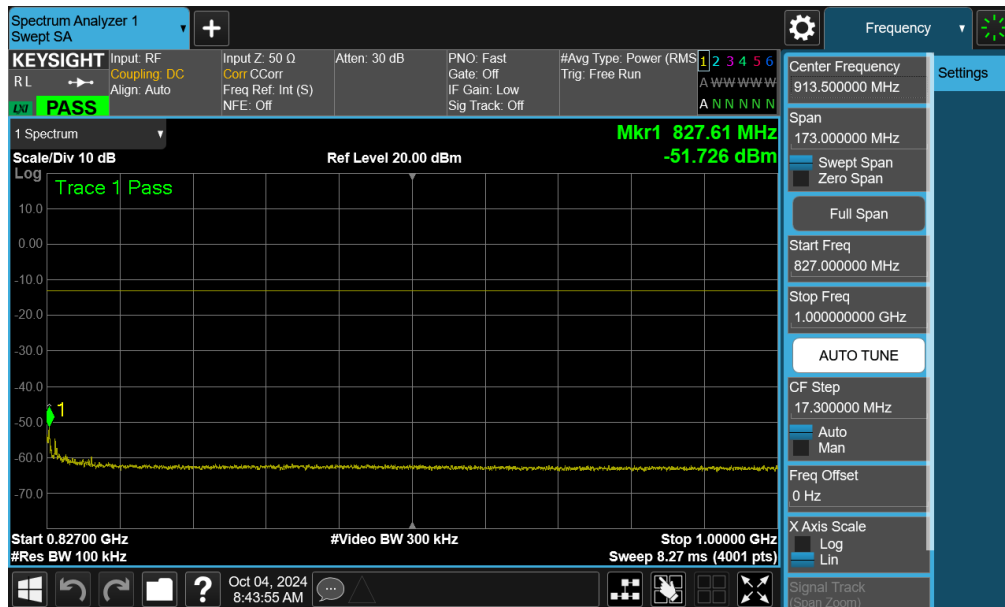
FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 68 of 128



NR Band n26 - Ant E

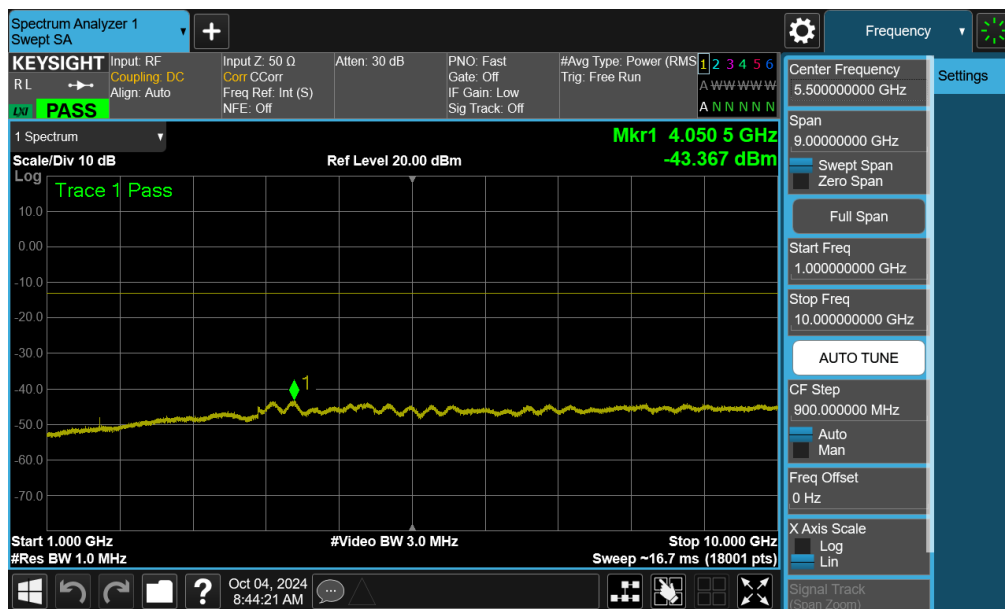


Plot 7-93. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-94. Conducted Spurious Plot (NR Band n26 - 20MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 69 of 128

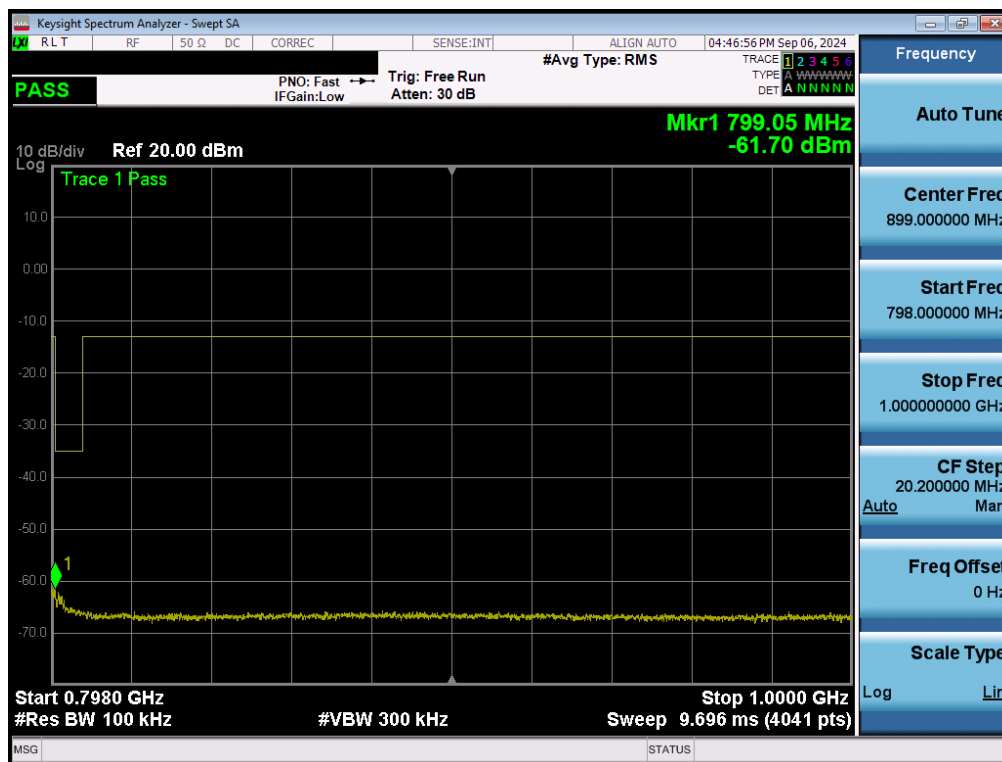


FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 70 of 128

NR Band n14 - Ant E

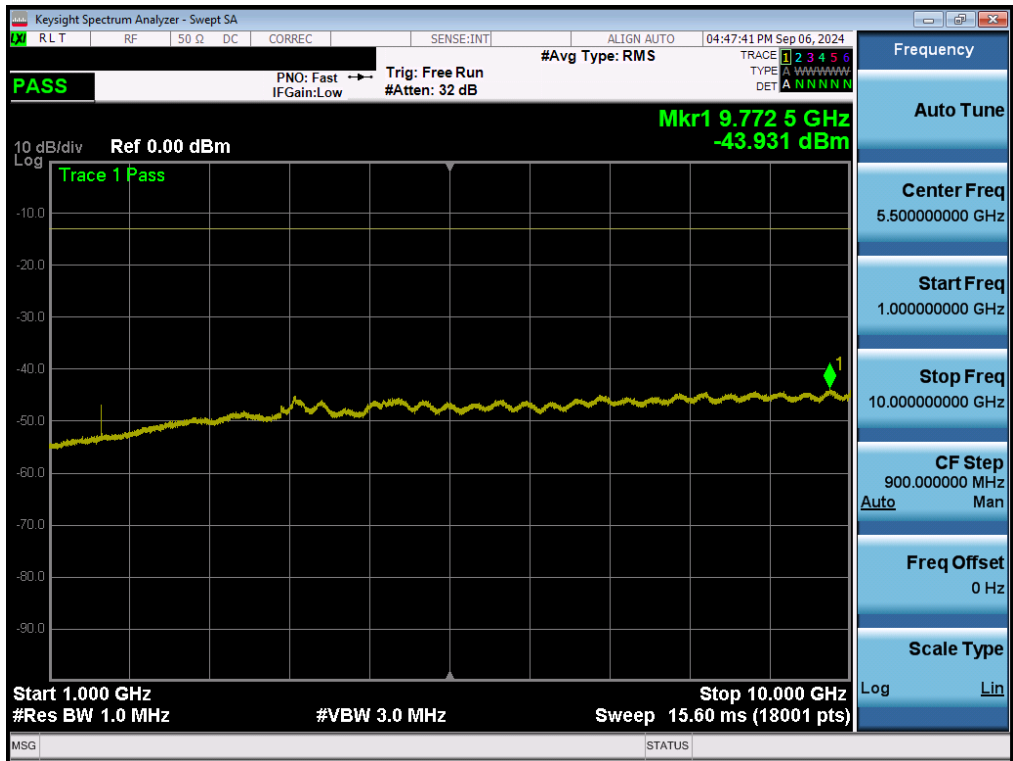


Plot 7-96. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-97. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 71 of 128



Plot 7-98. Conducted Spurious Plot (NR Band n14 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 72 of 128

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B14	10MHz	Mid	30.0 - 788.0	-65.98	-35	-30.98
		Mid	798.0 - 1000.0	-63.80	-35	-28.80
		Mid	1000.0 -10000.0	-41.18	-13	-28.18
LTE-B26	15 MHz	Mid	30.0 - 814.0	-47.09	-13	-34.09
		Mid	824.0 - 1000.0	-32.37	-13	-19.37
		Mid	1000.0 -10000.0	-41.56	-13	-28.56
NR-n26	20 MHz	Mid	30.0 - 814.0	-57.44	-13	-44.44
		Mid	824.0 - 1000.0	-50.09	-13	-37.09
		Mid	1000.0 -10000.0	-43.32	-13	-30.32
NR-n14	10 MHz	Mid	30.0 - 788.0	-29.01	-13	-16.01
		Mid	824.0 - 1000.0	-27.05	-13	-14.05
		Mid	1000.0 -10000.0	-43.43	-13	-30.43

Table 7-9. Conducted Spurious Emission Results – ANT A

FCC ID: A3LSMS938U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260067-06.A3L	Test Dates: 09/16/2024 - 10/28/2024	EUT Type: Portable Handset	Page 73 of 128