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PART 27 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

6/3 - 7/21/2025

Test Report Issue Date:

7/21/2025

Test Site/Location:

Element Lab., Columbia, MD, USA

Test Report Serial No.:

1M2505130050-03.A3L

FCC ID:

A3LSMX736B

APPLICANT:

Samsung Electronics Co., Ltd.

Application Type:

Certification

Model:

SM-X736B

EUT Type:

Portable Tablet

FCC Classification:

PCS Licensed Transmitter (PCB)

FCC Rule Part:

27

Test Procedure(s):

ANSI C63.26-2015

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

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: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 1 of 125

TABLE OF CONTENTS

1.0	INTRODUCTION	6
1.1	Scope	6
1.2	Element Test Location.....	6
1.3	Test Facility / Accreditations.....	6
2.0	PRODUCT INFORMATION.....	7
2.1	Equipment Description	7
2.2	Device Capabilities.....	7
2.3	Test Configuration	7
2.4	Software and Firmware	7
2.5	EMI Suppression Device(s)/Modifications	7
3.0	DESCRIPTION OF TESTS	8
3.1	Evaluation Procedure	8
3.2	Radiated Power and Radiated Spurious Emissions	8
4.0	MEASUREMENT UNCERTAINTY	9
5.0	TEST EQUIPMENT CALIBRATION DATA	10
6.0	SAMPLE EMISSION DESIGNATORS	11
7.0	TEST RESULTS	12
7.1	Summary	12
7.2	Conducted Output Power Data	14
7.3	Occupied Bandwidth	16
7.4	Spurious and Harmonic Emissions at Antenna Terminal	50
7.5	Band Edge Emissions at Antenna Terminal	66
7.6	Peak-Average Ratio	84
7.7	Radiated Power (ERP/EIRP).....	98
7.8	Radiated Spurious Emissions Measurements	104
7.9	Frequency Stability / Temperature Variation	119
8.0	CONCLUSION.....	125

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 2 of 125

MEASUREMENT REPORT

FCC Part 27

Antenna-1								
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	ERP		EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	Max. Power [W]	Max. Power [dBm]	
LTE Band 12/17	10 MHz	QPSK	704.0 - 711.0	0.127	21.05	0.209	23.20	9M02G7D
		16QAM	704.0 - 711.0	0.108	20.32	0.176	22.47	9M03W7D
	5 MHz	QPSK	701.5 - 713.5	0.128	21.09	0.211	23.24	4M54G7D
		16QAM	701.5 - 713.5	0.110	20.42	0.181	22.57	4M52W7D
	3 MHz	QPSK	700.5 - 714.5	0.128	21.06	0.209	23.21	2M72G7D
		16QAM	700.5 - 714.5	0.105	20.20	0.172	22.35	2M70W7D
	1.4 MHz	QPSK	699.7 - 715.3	0.124	20.94	0.204	23.09	1M10G7D
		16QAM	699.7 - 715.3	0.102	20.10	0.168	22.25	1M11W7D
LTE Band 13	10 MHz	QPSK	782.0	0.115	20.60	0.188	22.75	9M05G7D
		16QAM	782.0	0.098	19.93	0.161	22.08	8M99W7D
	5 MHz	QPSK	779.5 - 784.5	0.119	20.75	0.195	22.90	4M50G7D
		16QAM	779.5 - 784.5	0.104	20.16	0.170	22.31	4M51W7D

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet		Page 3 of 125

Antenna-1						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
WCDMA1700	N/A	Spread Spectrum	1712.4 - 1752.6	0.208	23.17	4M20F9W
LTE Band 66/4	20 MHz	QPSK	1720.0 - 1770.0	0.248	23.95	18M0G7D
		16QAM	1720.0 - 1770.0	0.219	23.41	18M0W7D
	15 MHz	QPSK	1717.5 - 1772.5	0.256	24.08	13M5G7D
		16QAM	1717.5 - 1772.5	0.226	23.54	13M5W7D
	10 MHz	QPSK	1715.0 - 1775.0	0.253	24.03	9M03G7D
		16QAM	1715.0 - 1775.0	0.224	23.50	8M98W7D
	5 MHz	QPSK	1712.5 - 1777.5	0.261	24.16	4M57G7D
		16QAM	1712.5 - 1777.5	0.240	23.80	4M53W7D
	3 MHz	QPSK	1711.5 - 1778.5	0.260	24.16	2M70G7D
		16QAM	1711.5 - 1778.5	0.223	23.49	2M72W7D
	1.4 MHz	QPSK	1710.7 - 1779.3	0.251	24.00	1M10G7D
		16QAM	1710.7 - 1779.3	0.228	23.58	1M11W7D
NR Band n66	40 MHz	$\pi/2$ BPSK	1730.0 - 1760.0	0.311	24.93	38M7G7D
		QPSK	1730.0 - 1760.0	0.311	24.92	38M7G7D
		16QAM	1730.0 - 1760.0	0.251	24.00	38M7W7D
	30 MHz	$\pi/2$ BPSK	1725.0 - 1765.0	0.311	24.92	28M8G7D
		QPSK	1725.0 - 1765.0	0.308	24.88	28M7G7D
		16QAM	1725.0 - 1765.0	0.258	24.12	28M6W7D
	25 MHz	$\pi/2$ BPSK	1722.5 - 1767.5	0.299	24.76	23M0W7D
		QPSK	1722.5 - 1767.5	0.297	24.73	23M8W7D
		16QAM	1722.5 - 1767.5	0.249	23.96	23M8W7D
	20 MHz	$\pi/2$ BPSK	1720.0 - 1770.0	0.314	24.96	18M0G7D
		QPSK	1720.0 - 1770.0	0.302	24.80	19M0G7D
		16QAM	1720.0 - 1770.0	0.261	24.16	19M0W7D
	15 MHz	$\pi/2$ BPSK	1717.5 - 1772.5	0.300	24.77	13M5G7D
		QPSK	1717.5 - 1772.5	0.297	24.73	14M2G7D
		16QAM	1717.5 - 1772.5	0.263	24.20	14M2W7D
	10 MHz	$\pi/2$ BPSK	1715.0 - 1775.0	0.308	24.88	9M02G7D
		QPSK	1715.0 - 1775.0	0.299	24.76	9M34G7D
		16QAM	1715.0 - 1775.0	0.264	24.21	9M34W7D
	5 MHz	$\pi/2$ BPSK	1712.5 - 1777.5	0.295	24.69	4M52G7D
		QPSK	1712.5 - 1777.5	0.288	24.59	4M49G7D
		16QAM	1712.5 - 1777.5	0.255	24.06	4M51W7D

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 4 of 125

Antenna-2						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
LTE Band 66/4	20 MHz	QPSK	1720.0 - 1770.0	0.285	24.55	18M0G7D
		16QAM	1720.0 - 1770.0	0.246	23.91	18M0W7D
	15 MHz	QPSK	1717.5 - 1772.5	0.312	24.94	13M6G7D
		16QAM	1717.5 - 1772.5	0.276	24.40	13M5W7D
	10 MHz	QPSK	1715.0 - 1775.0	0.307	24.88	9M06G7D
		16QAM	1715.0 - 1775.0	0.280	24.47	9M00W7D
	5 MHz	QPSK	1712.5 - 1777.5	0.311	24.93	4M51G7D
		16QAM	1712.5 - 1777.5	0.264	24.22	4M50W7D
	3 MHz	QPSK	1711.5 - 1778.5	0.305	24.85	2M70G7D
		16QAM	1711.5 - 1778.5	0.267	24.26	2M71W7D
	1.4 MHz	QPSK	1710.7 - 1779.3	0.308	24.88	1M10G7D
		16QAM	1710.7 - 1779.3	0.277	24.42	1M11W7D

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 5 of 125

1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Test Location

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

1.3 Test Facility / Accreditations

Measurements were performed at Element 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 Agreements (MRAs).

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 6 of 125

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Tablet FCC ID: A3LSMX736B**. 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 27.

Test Device Serial No.: 19737, 19331, 19315, 19273, 27060, 26013, 72199, 72207

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII (5GHz and 6GHz), Bluetooth (1x, EDR, LE), Digitizer

2.3 Test Configuration

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

Band	Ant 1	Ant 2
LTE Band 66/4	Main1	Sub3

Table 2-1. Antenna Report Naming Convention

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version X736BXXU0AUF8 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: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 7 of 125

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: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 8 of 125

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

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 9 of 125

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
-	LTx5	Licensed Transmitter Cable Set	2/25/2025	Annual	2/25/2026	LTx5
-	AP2	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP2
-	ETS	Conducted Cable Set (40GHz)	4/2/2024	Annual	2/25/2026	ETS
-	AP1	EMC Cable and Switch System	2/25/2025	Annual	2/25/2026	AP1
Anritsu	MT8820C	Radio Communication Analyzer	N/A			6201240328
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
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	10/16/2024	Annual	10/16/2025	100348
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107
Sunol	DRH-118	Horn Antenna (1-18GHz)	2/21/2024	Biennial	2/21/2026	A050307

Table 5-1. Test Equipment Calibration Table

Notes:

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

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 10 of 125

6.0 SAMPLE EMISSION DESIGNATORS

Emission Designator

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 11 of 125

7.0 TEST RESULTS

7.1 Summary

Company Name: Samsung Electronics Co., Ltd.
 FCC ID: A3LSMX736B
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): WCDMA/LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power*	2.1046(a), 2.1046(c)	N/A	PASS	Section 7.2
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3
	Conducted Band Edge / Spurious Emissions (LTE Band 13)	2.1051, 27.53(c), 27.53(f)	Undesirable emissions must meet the limits detailed in sections 27.53(c) and 27.53(f)	PASS	Sections 7.4, 7.5
	Conducted Band Edge / Spurious Emissions (LTE Band 12, 17)	2.1051, 27.53(g)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Sections 7.4, 7.5
	Conducted Band Edge / Spurious Emissions (WCDMA AWS; LTE Band 4, 66; NR Band n66)	2.1051, 27.53(h)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Sections 7.4, 7.5
	Peak-to-Average Ratio (WCDMA AWS; LTE Band 4, 66; NR Band n66)	27.50(d)(5)	≤ 13 dB	PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block	PASS	Section 7.9
RADIATED	Effective Radiated Power (LTE Band 13)	27.50(b)(10)	≤ 3 Watts max. ERP	PASS	Section 7.7
	Effective Radiated Power (LTE Band 12, 17)	27.50(c)(10)	≤ 3 Watts max. ERP	PASS	Section 7.7
	Equivalent Isotropic Radiated Power (WCDMA AWS; LTE Band 4, 66; NR Band n66)	27.50(d)(4)	≤ 1 Watt max. EIRP	PASS	Section 7.7
	Radiated Spurious Emissions (LTE Band 13)	2.1053, 27.53(c), 27.53(f)	Undesirable emissions must meet the limits detailed in sections 27.53(c) and 27.53(f)	PASS	Section 7.8
	Radiated Spurious Emissions (LTE Band 12, 17)	2.1053, 27.53(g)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.8
	Radiated Spurious Emissions (WCDMA AWS; LTE Band 4, 66; NR Band n66)	2.1053, 27.53(h)(1)	$\geq 43 + 10 \log (P[\text{Watts}])$ dB of attenuation below transmitter power	PASS	Section 7.8

* 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: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 12 of 125

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: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 13 of 125

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. Detector = RMS
2. Trace mode = trace average for continuous emissions, max hold for pulse emissions
3. Sweep time = auto couple
4. The trace was allowed to stabilize
5. 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.

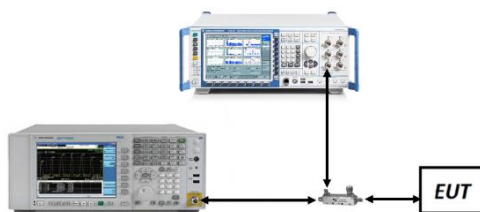


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. 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.
2. All other conducted power measurements are contained in the RF exposure report for this filing.
3. 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: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 14 of 125

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
20 MHz	QPSK	132072	1720.0	1 / 0	22.94
		132322	1745.0	1 / 99	23.04
		132572	1770.0	1 / 99	23.28
	16-QAM	132572	1770.0	1 / 99	22.29
15 MHz	QPSK	132047	1717.5	1 / 0	23.62
		132322	1745.0	1 / 37	23.63
		132597	1772.5	1 / 0	23.67
	16-QAM	132597	1772.5	1 / 0	22.79
10 MHz	QPSK	132022	1715.0	1 / 25	23.55
		132322	1745.0	1 / 0	23.59
		132622	1775.0	1 / 0	23.61
	16-QAM	132622	1775.0	1 / 0	22.85
5 MHz	QPSK	131997	1712.5	1 / 0	23.62
		132322	1745.0	1 / 24	23.62
		132647	1777.5	1 / 24	23.66
	16-QAM	132647	1777.5	1 / 24	22.60
3 MHz	QPSK	131987	1711.5	1 / 0	23.53
		132322	1745.0	1 / 14	23.51
		132657	1778.5	1 / 0	23.58
	16-QAM	132657	1778.5	1 / 0	22.65
1.4 MHz	QPSK	131979	1710.7	1 / 5	23.39
		132322	1745.0	1 / 3	23.44
		132665	1779.3	1 / 3	23.61
	16-QAM	132665	1779.3	1 / 3	22.81

Table 7-2. Max Conducted Power Test Results - LTE 66/4 – Ant2

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 15 of 125

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.

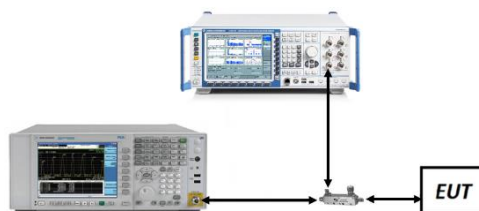


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

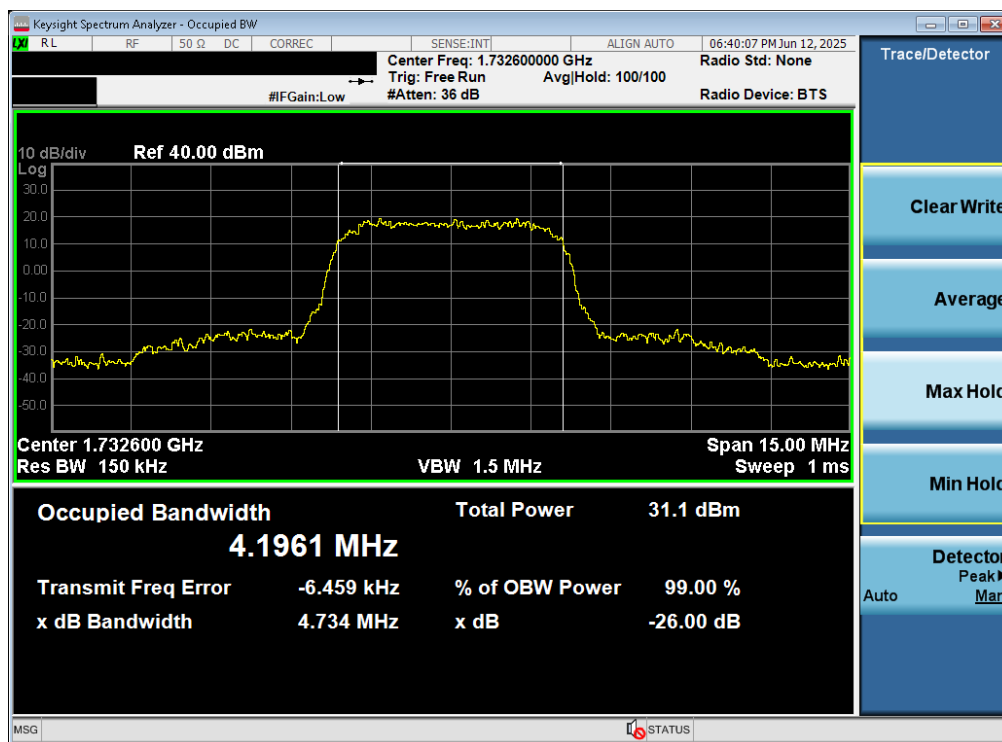
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 16 of 125

Mode	Bandwidth	Modulation	OBW [MHz]
WCDMA-AWS	5MHz	GMSK	4.20
LTE-B12/17	10MHz	QPSK	9.02
		16QAM	9.03
	5MHz	QPSK	4.54
		16QAM	4.52
	3MHz	QPSK	2.72
		16QAM	2.70
	1.4MHz	QPSK	1.10
		16QAM	1.11
LTE-B13	10MHz	QPSK	9.05
		16QAM	8.99
	5MHz	QPSK	4.50
		16QAM	4.51
LTE-B66-4	20MHz	QPSK	17.98
		16QAM	18.01
	15MHz	QPSK	13.54
		16QAM	13.51
	10MHz	QPSK	9.03
		16QAM	8.98
	5MHz	QPSK	4.57
		16QAM	4.53
	3MHz	QPSK	2.70
		16QAM	2.72
	1.4MHz	QPSK	1.10
		16QAM	1.11

Table 7-3. Occupied Bandwidth Results – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 17 of 125

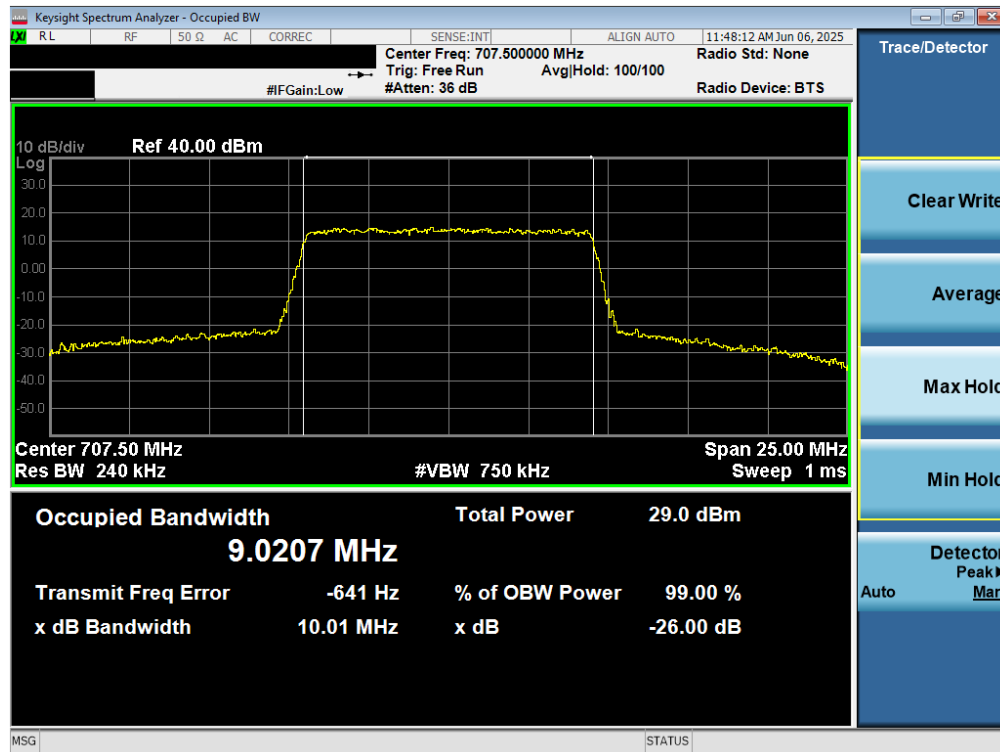
WCDMA AWS – ANT1



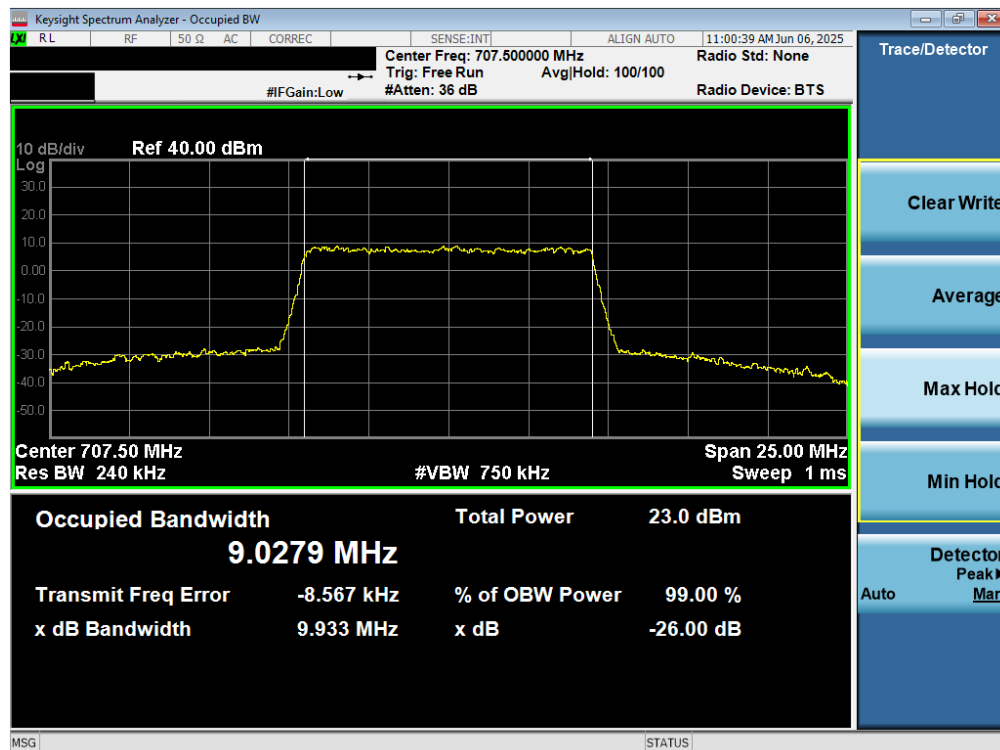
Plot 7-1. Occupied Bandwidth Plot (WCDMA, Ch. 1413 – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 18 of 125

LTE Band 12/17 – ANT1

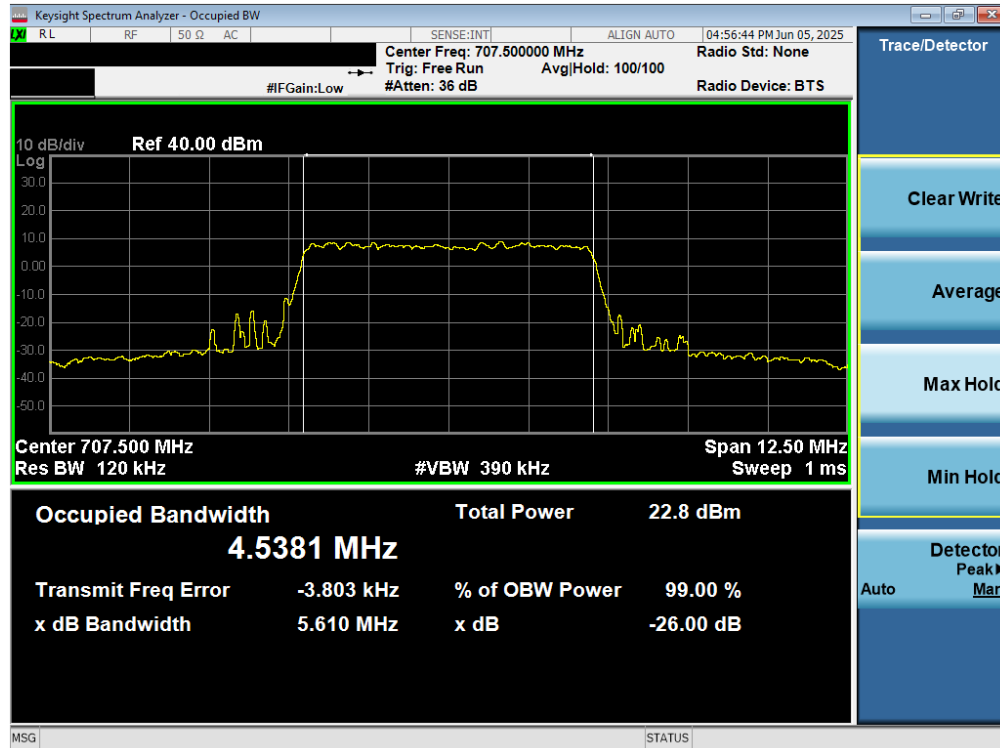


Plot 7-2. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB – ANT1)

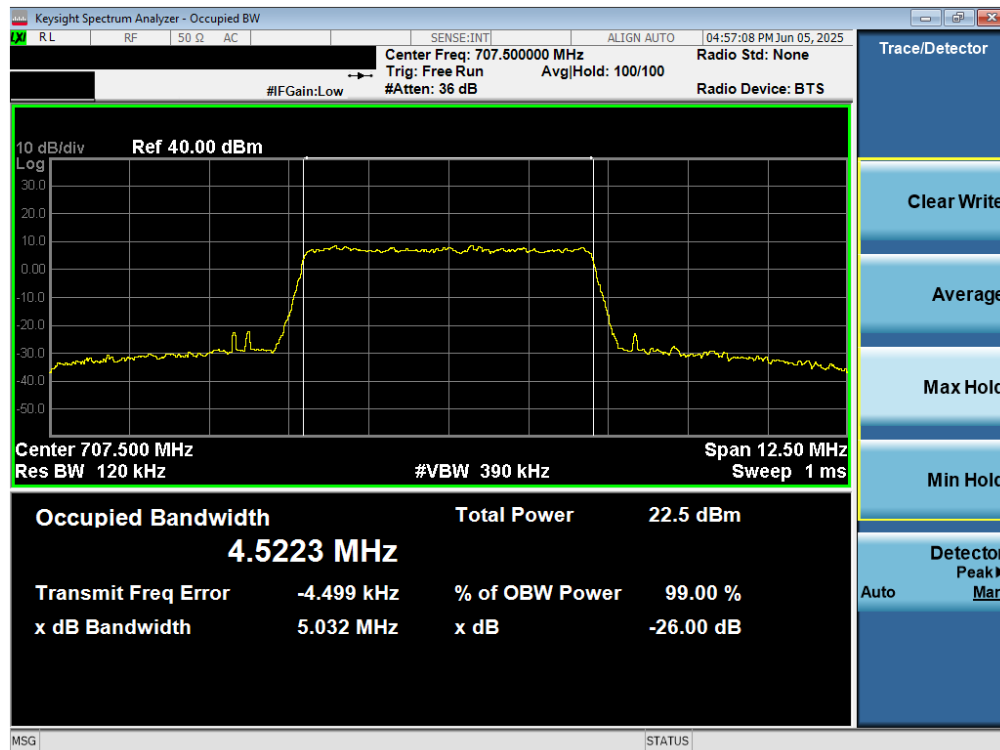


Plot 7-3. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 19 of 125

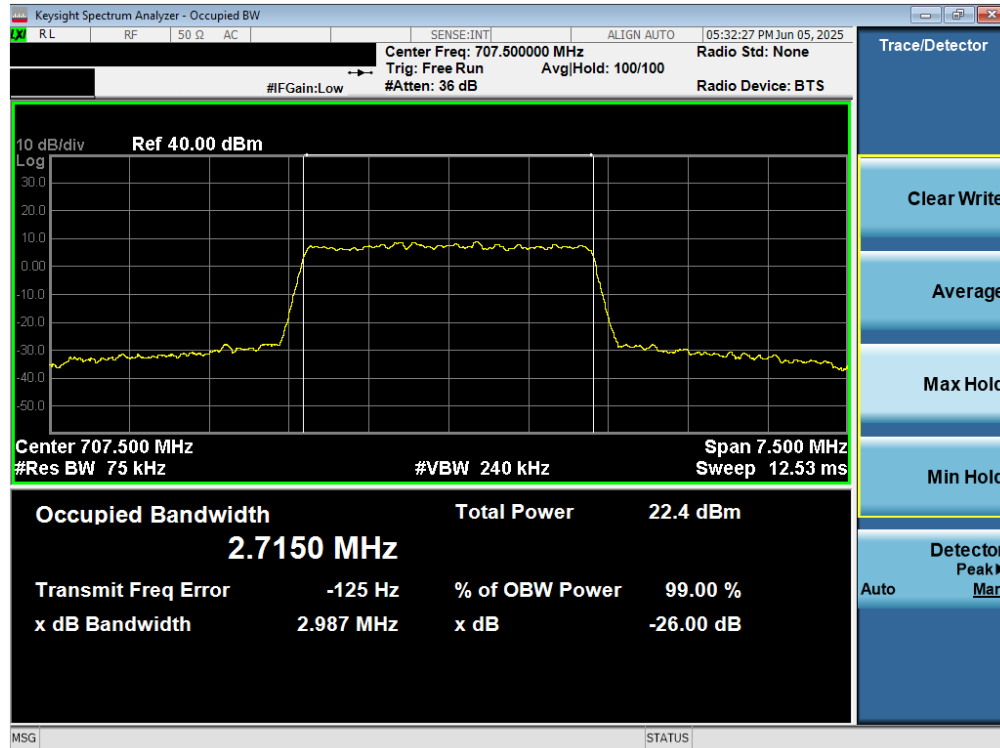


Plot 7-4. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz QPSK - Full RB – ANT1)

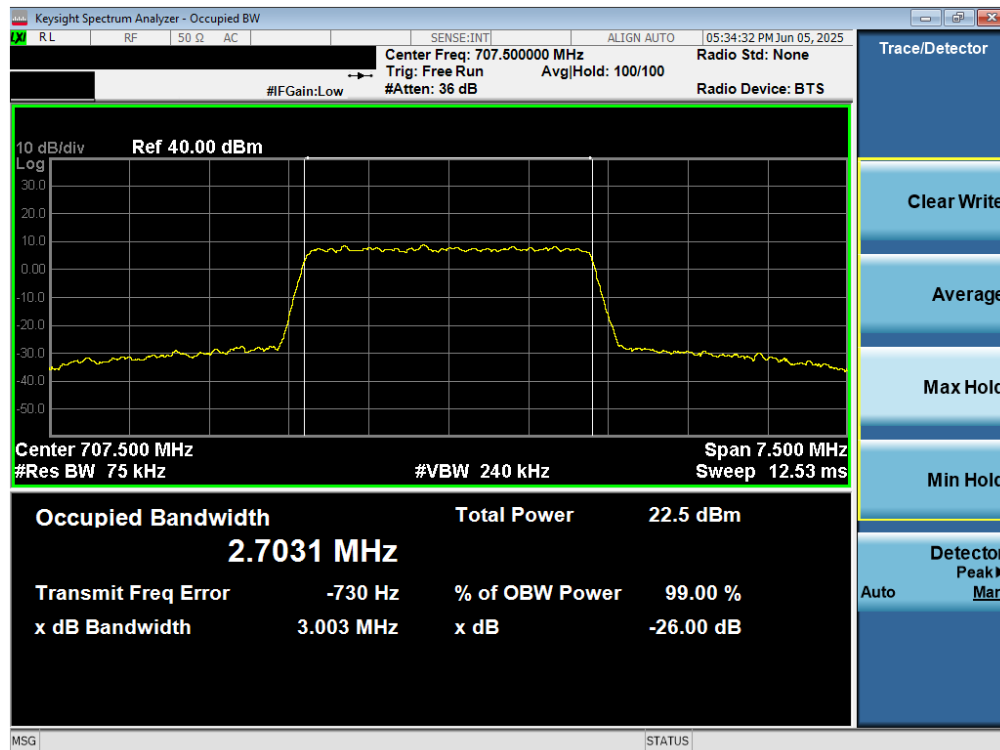


Plot 7-5. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 16-QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 20 of 125

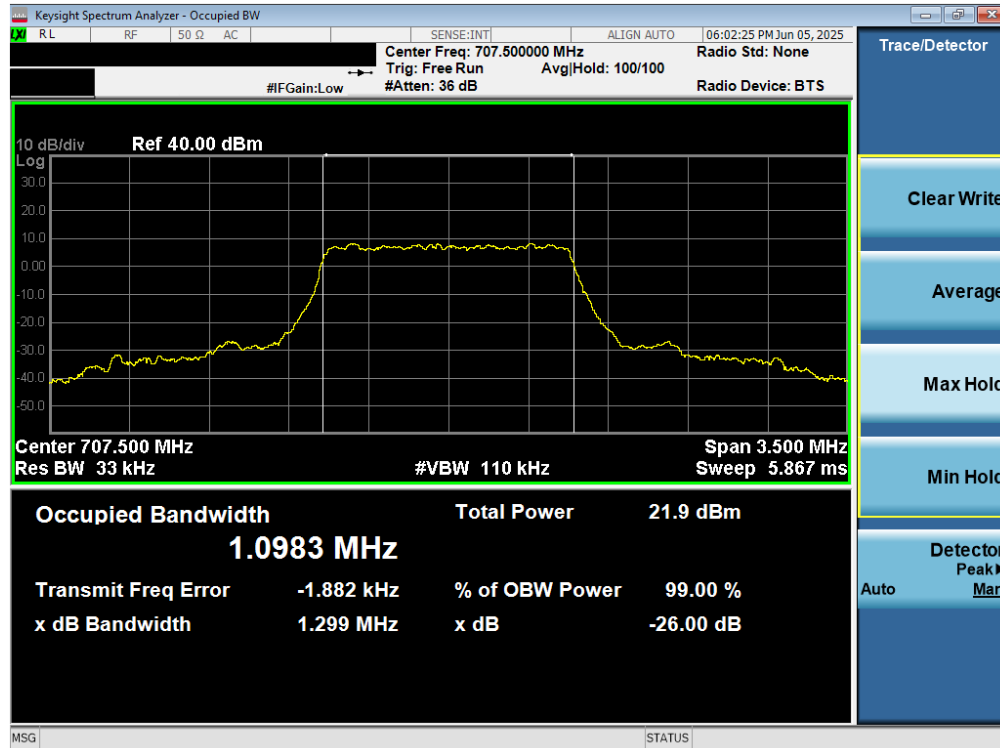


Plot 7-6. Occupied Bandwidth Plot (LTE Band 12/17 - 3MHz QPSK - Full RB – ANT1)

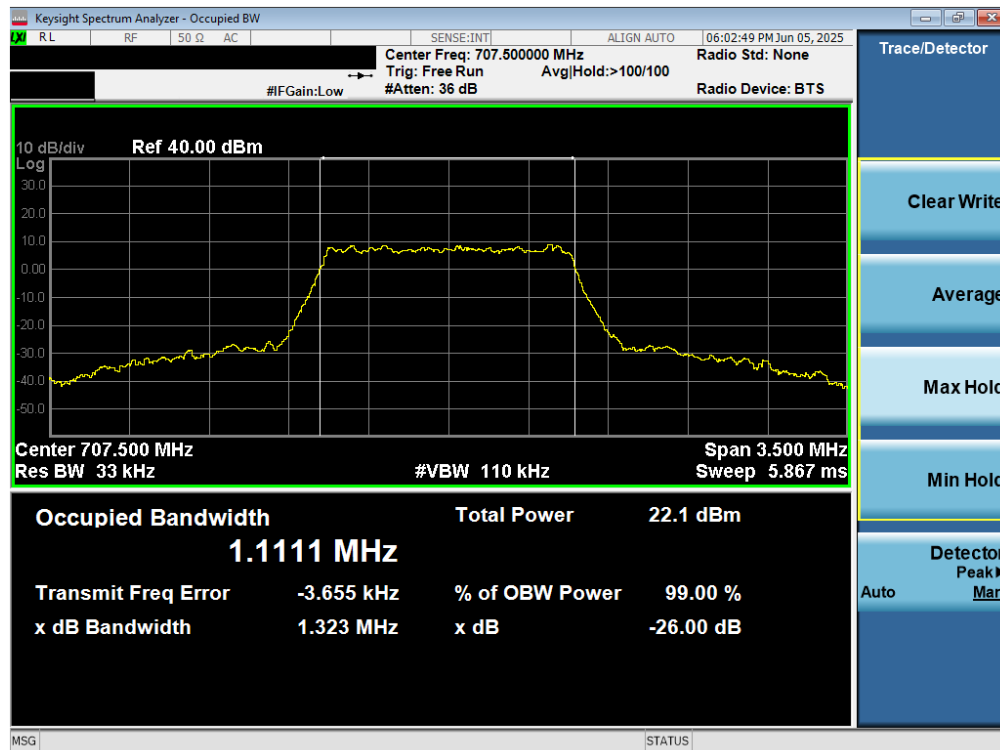


Plot 7-7. Occupied Bandwidth Plot (LTE Band 12/17 - 3MHz 16-QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 21 of 125



Plot 7-8. Occupied Bandwidth Plot (LTE Band 12/17 – 1.4MHz QPSK - Full RB – ANT1)



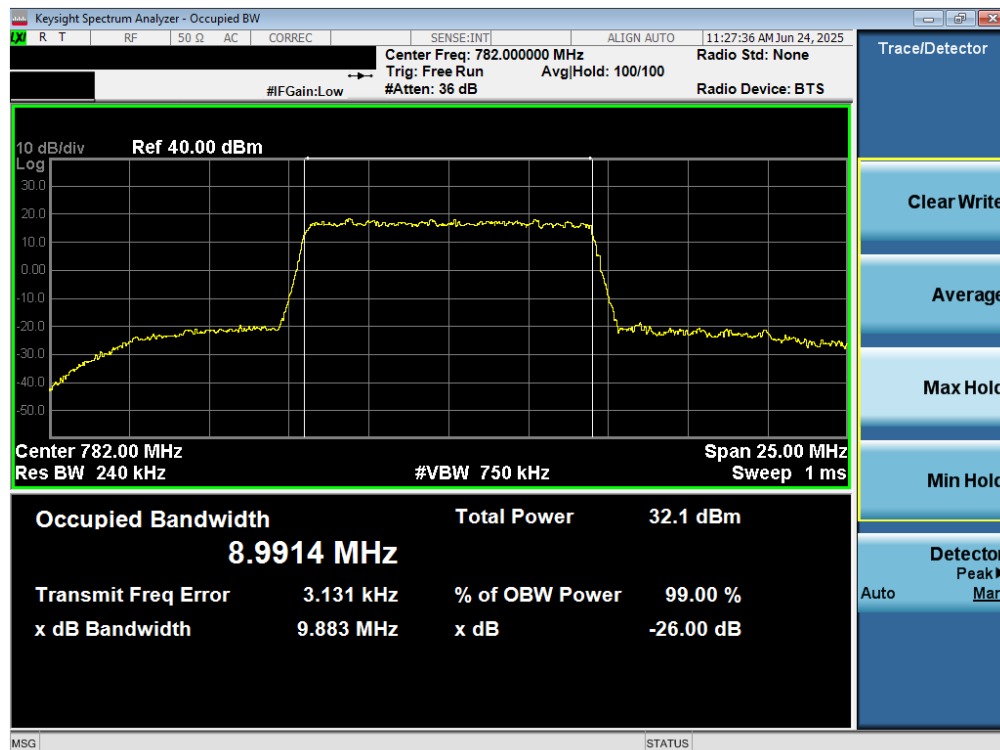
Plot 7-9. Occupied Bandwidth Plot (LTE Band 12/17 – 1.4MHz 16-QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 22 of 125

LTE Band 13 – ANT1

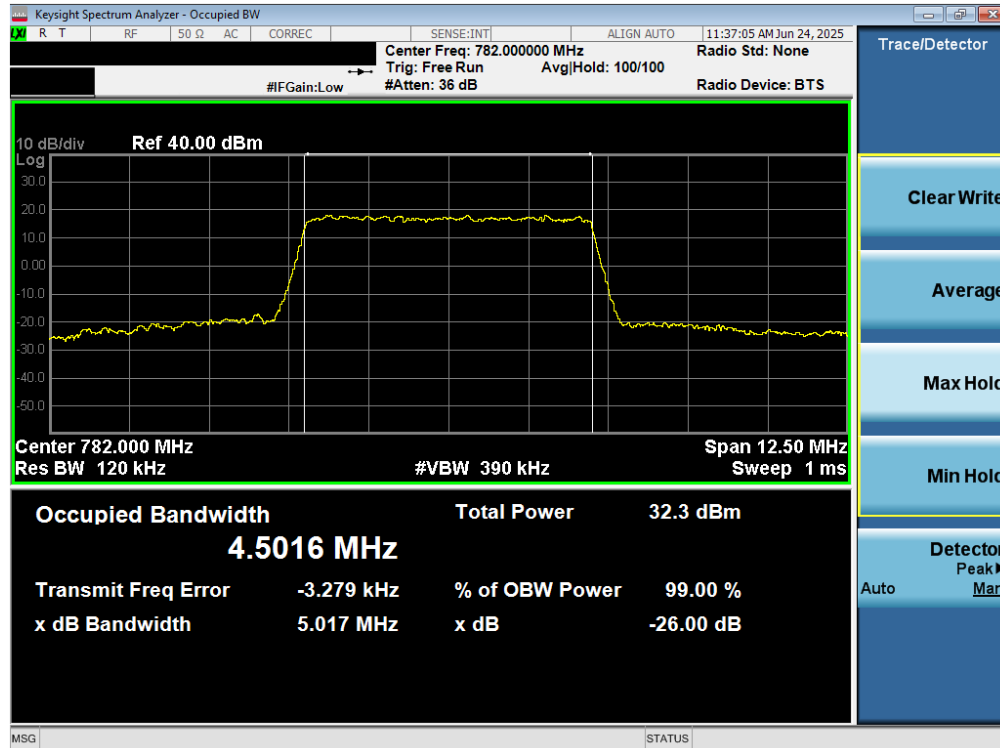


Plot 7-10. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB – ANT1)



Plot 7-11. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 23 of 125



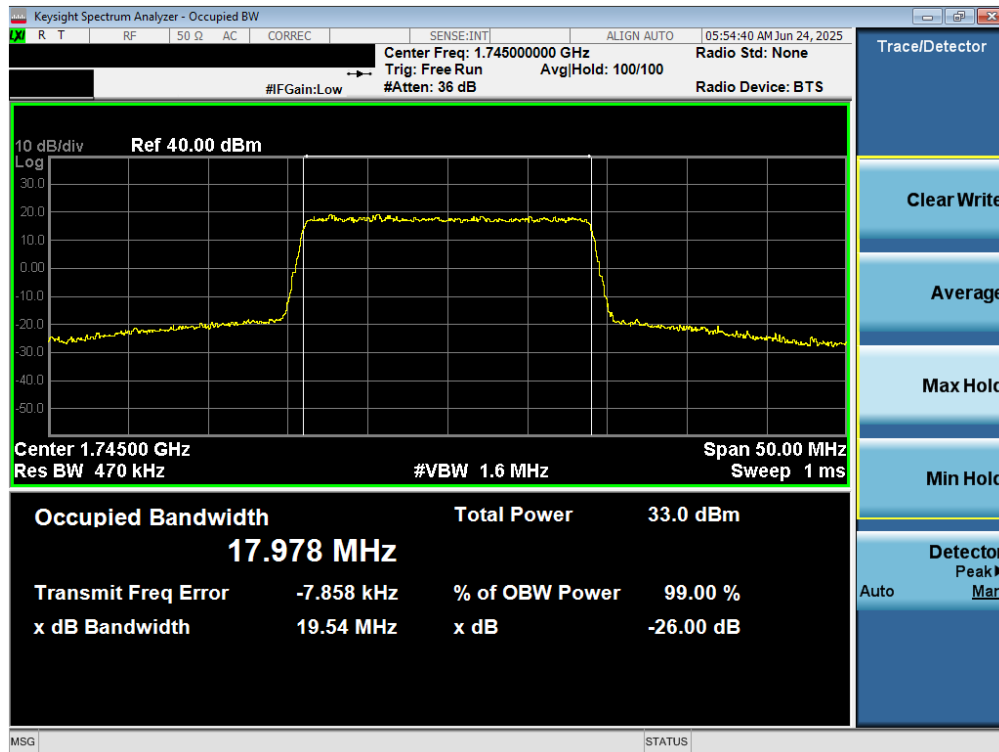
Plot 7-12. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB – ANT1)



Plot 7-13. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 24 of 125

LTE Band 66/4 - ANT1

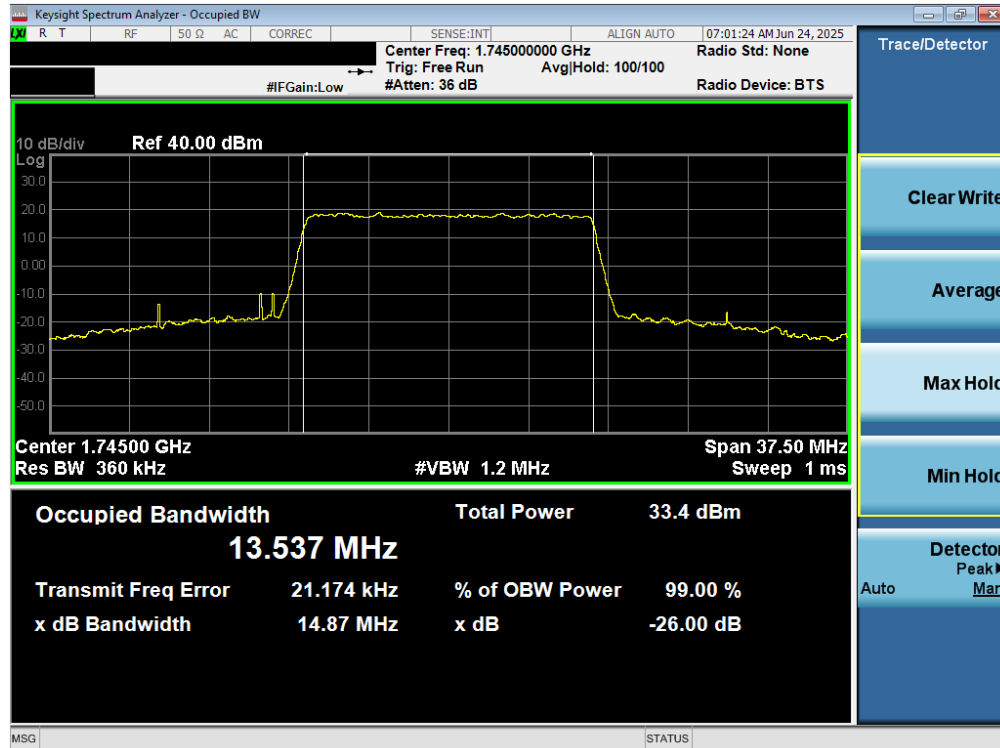


Plot 7-14. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT1)

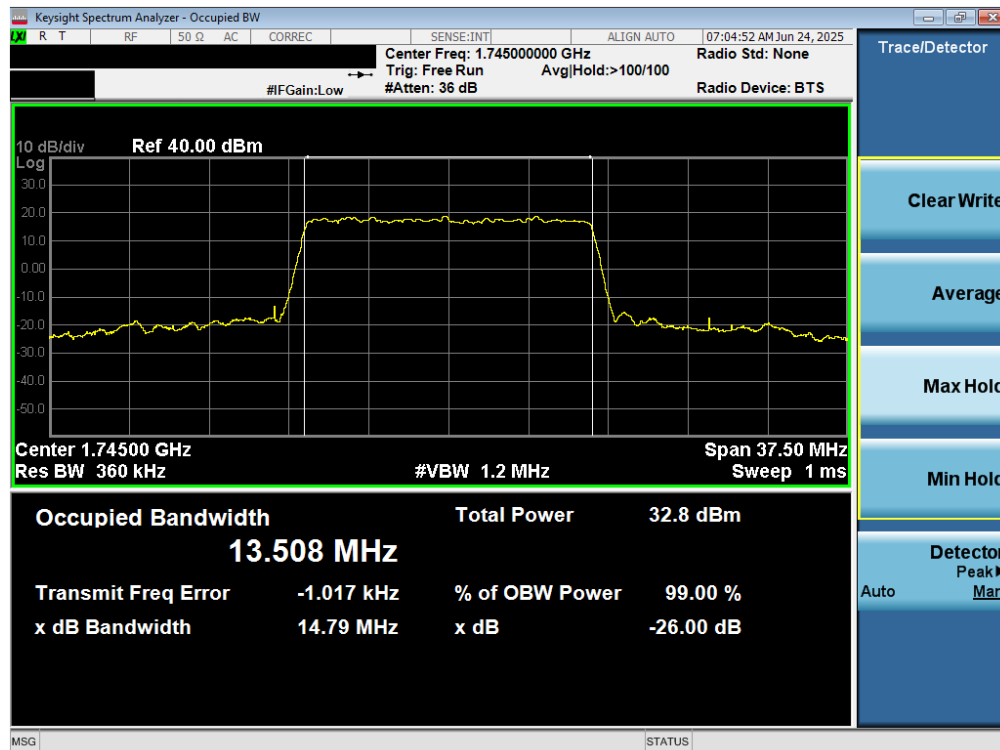


Plot 7-15. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 25 of 125

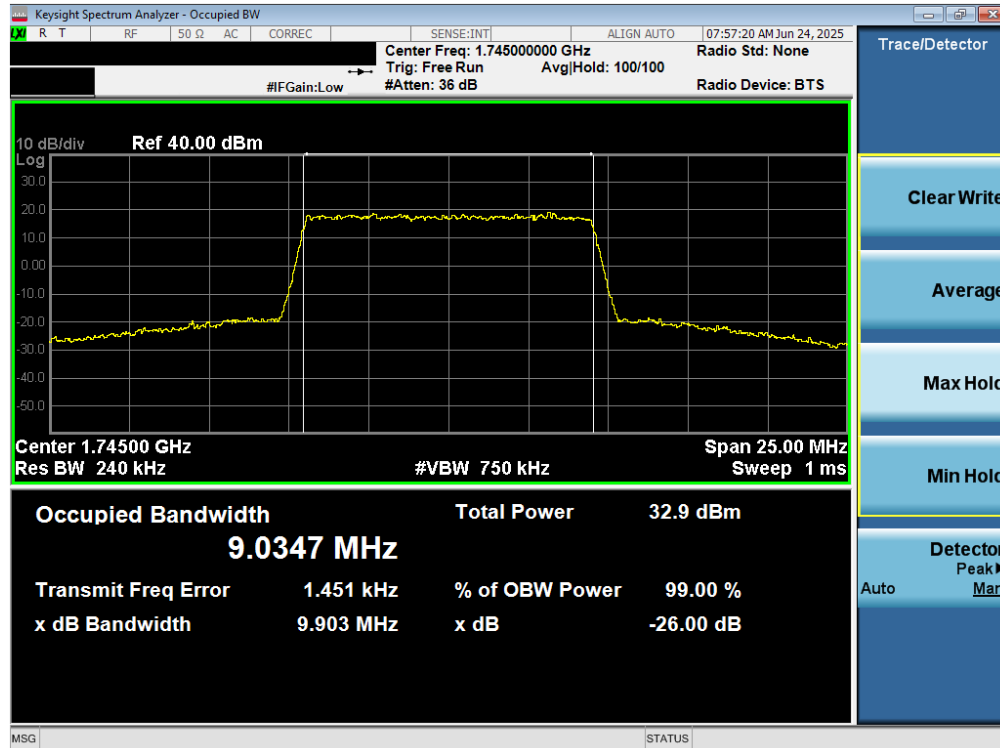


Plot 7-16. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - ANT1)

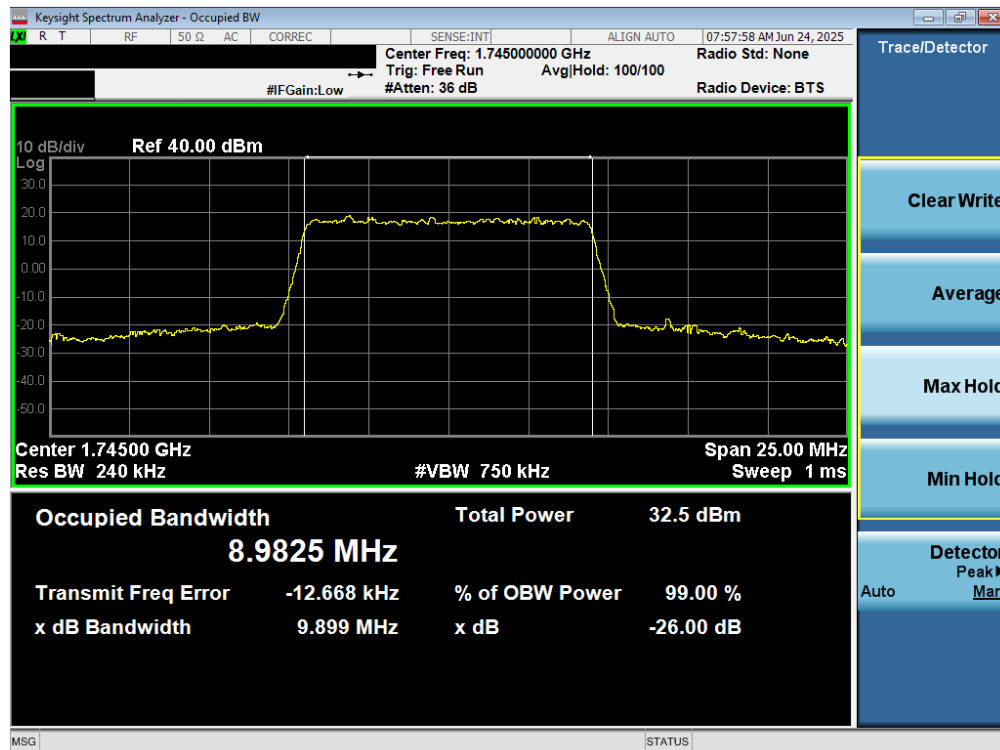


Plot 7-17. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 26 of 125

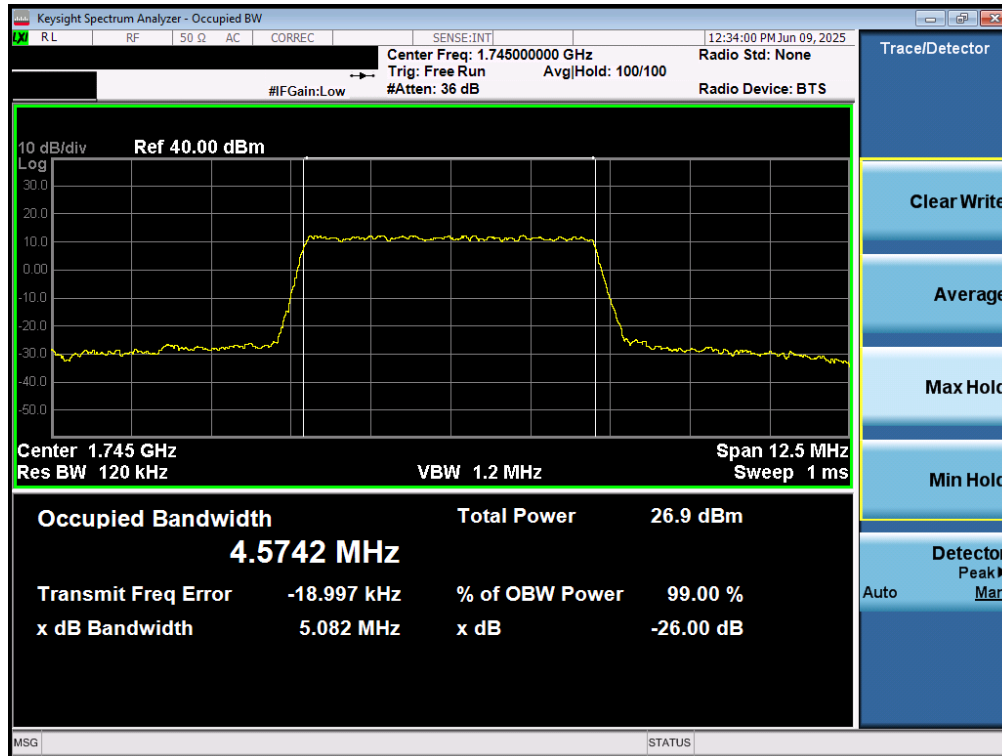


Plot 7-18. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT1)

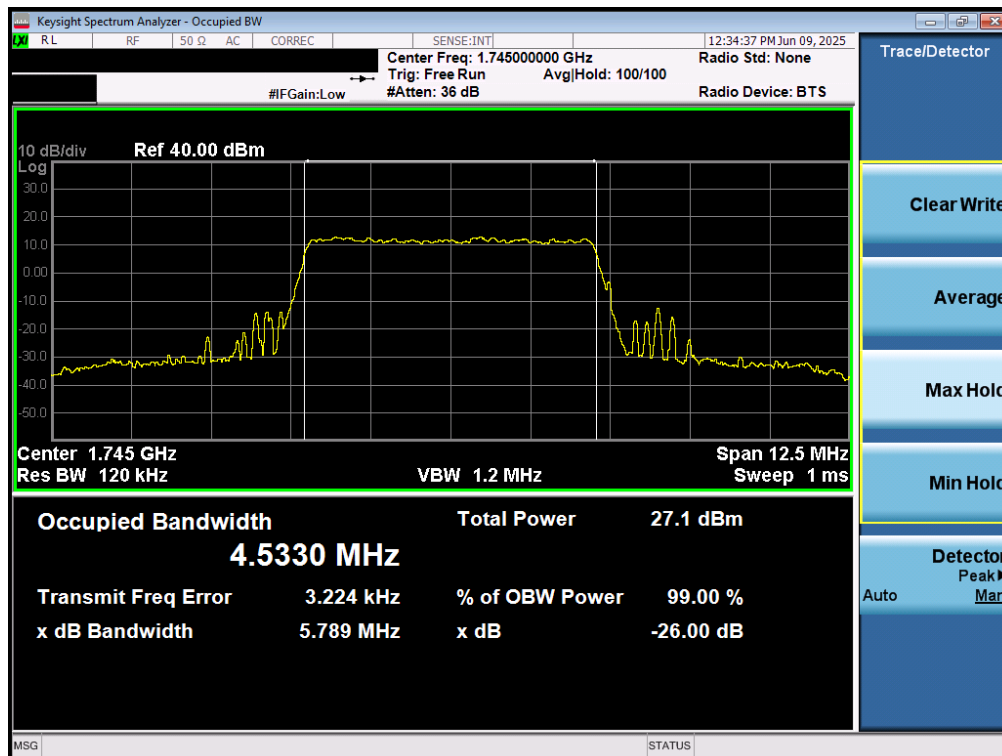


Plot 7-19. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 27 of 125

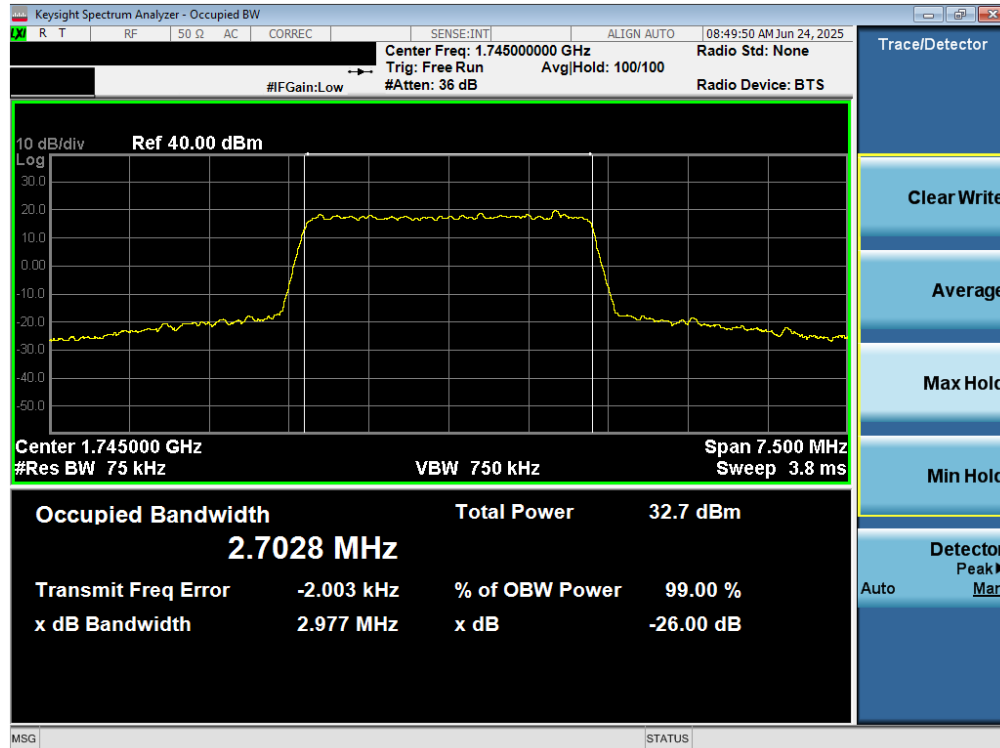


Plot 7-20. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - ANT1)

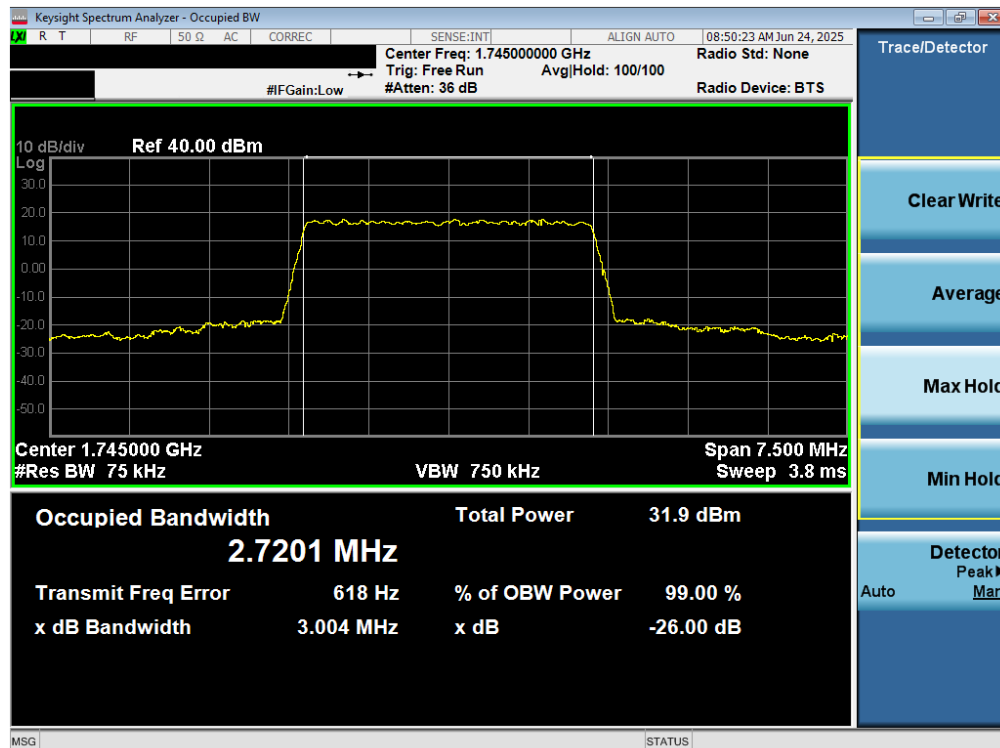


Plot 7-21. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 28 of 125

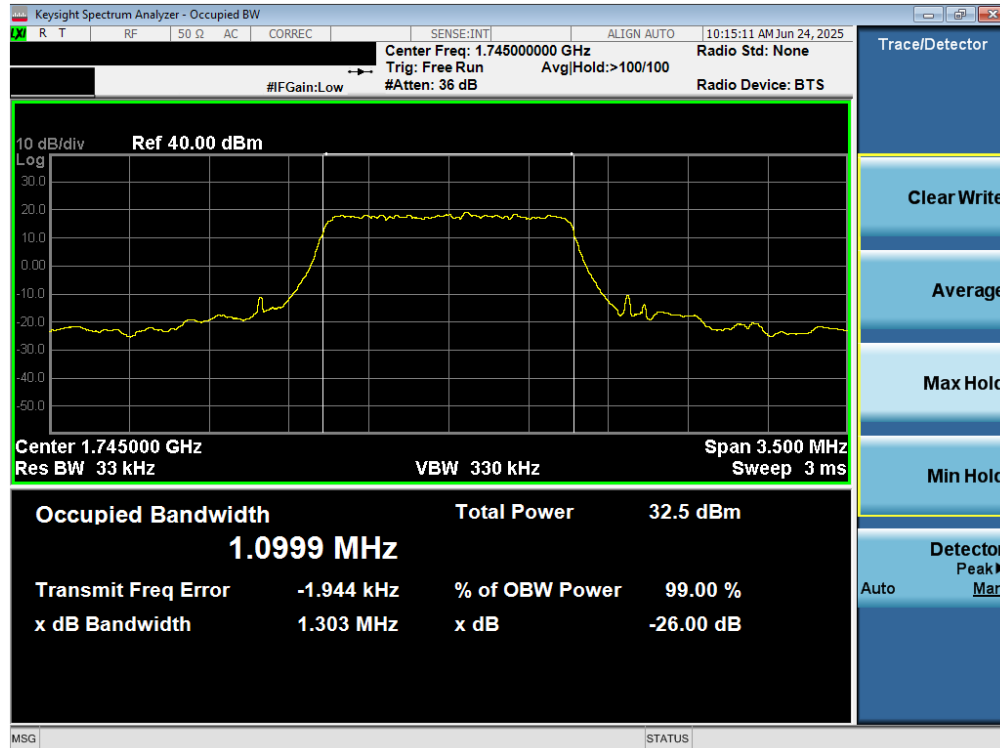


Plot 7-22. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT1)

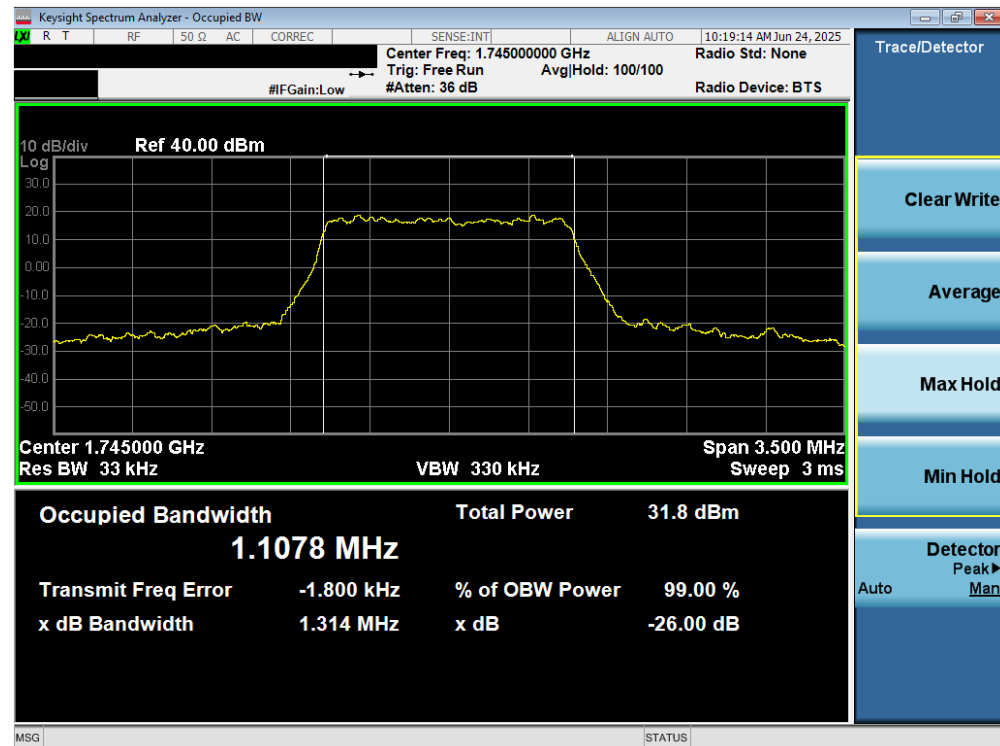


Plot 7-23. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 29 of 125



Plot 7-24. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - ANT1)



Plot 7-25. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB - ANT1)

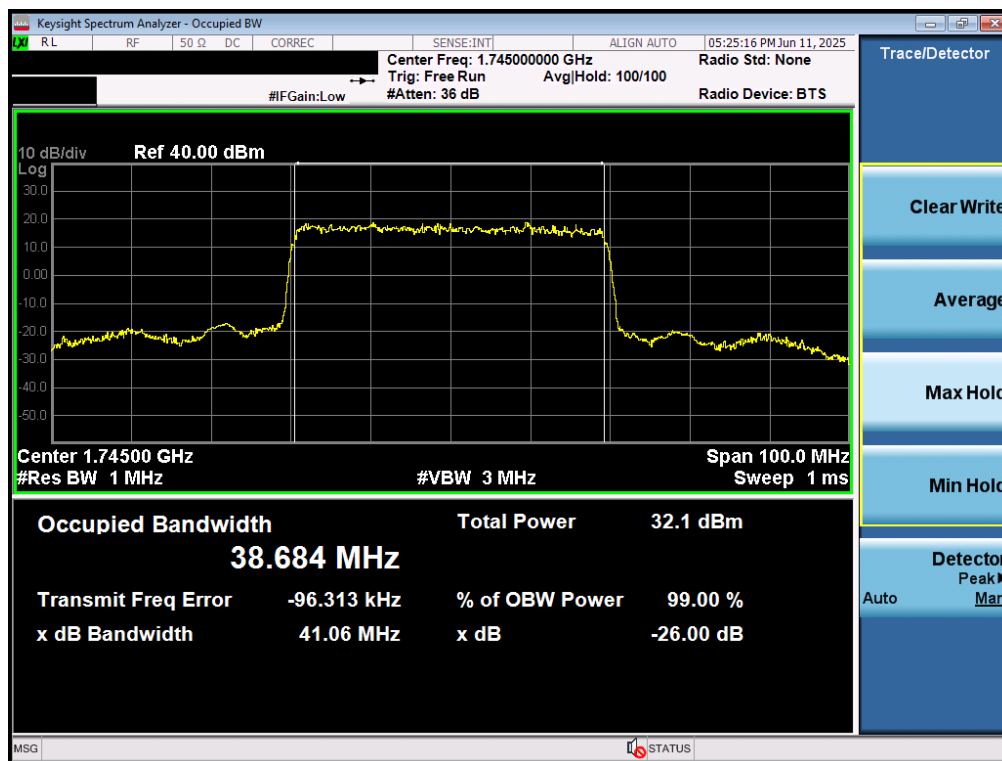
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 30 of 125

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n66	40MHz	$\pi/2$ BPSK	38.68
		QPSK	38.72
		16QAM	38.70
	30MHz	$\pi/2$ BPSK	28.76
		QPSK	28.70
		16QAM	28.62
	25MHz	$\pi/2$ BPSK	23.00
		QPSK	23.81
		16QAM	23.85
	20MHz	$\pi/2$ BPSK	17.99
		QPSK	18.98
		16QAM	19.01
	15MHz	$\pi/2$ BPSK	13.50
		QPSK	14.17
		16QAM	14.21
	10MHz	$\pi/2$ BPSK	9.02
		QPSK	9.34
		16QAM	9.34
	5MHz	$\pi/2$ BPSK	4.52
		QPSK	4.49
		16QAM	4.51

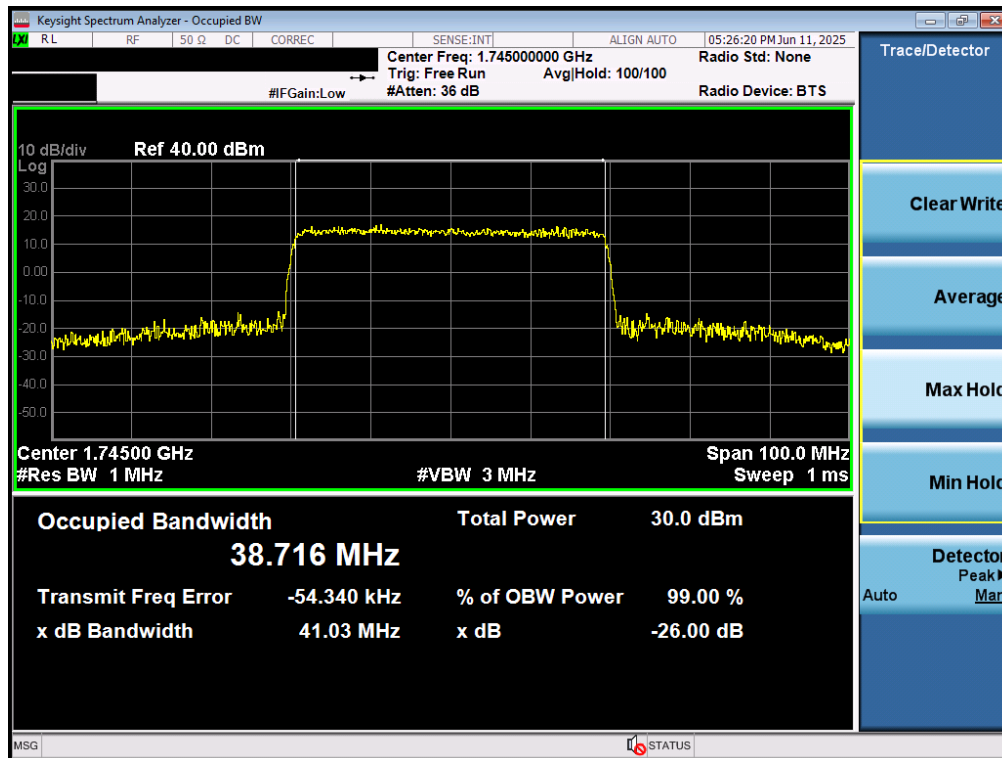
Table 7-4. Occupied Bandwidth Results – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 31 of 125

NR Band n66 – ANT1

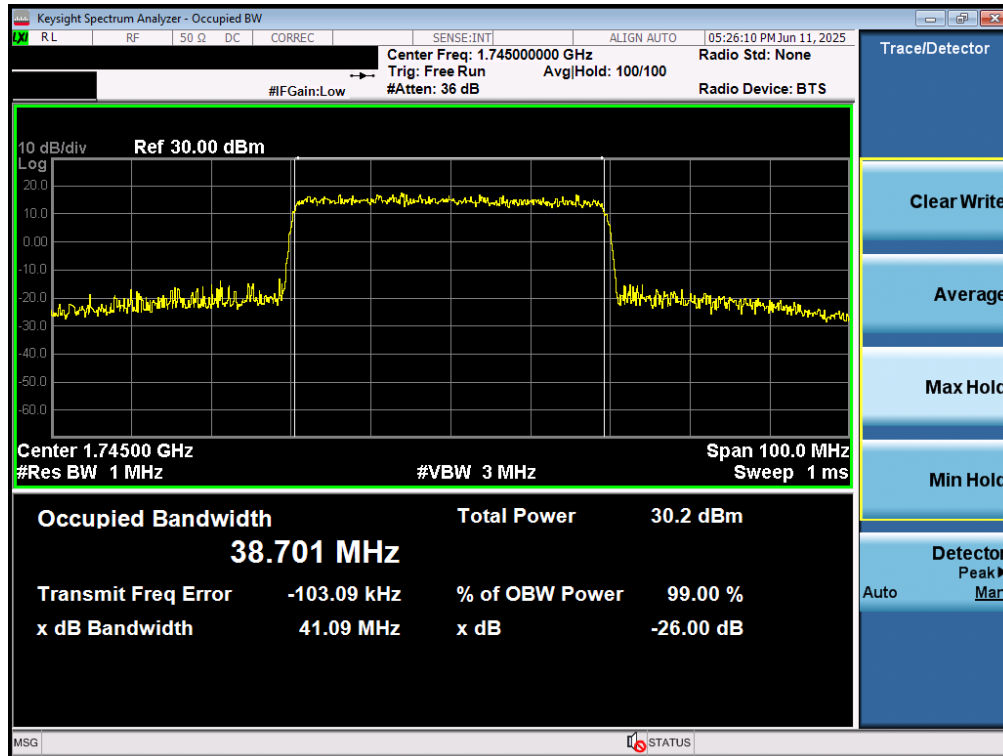


Plot 7-26. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – ANT1)

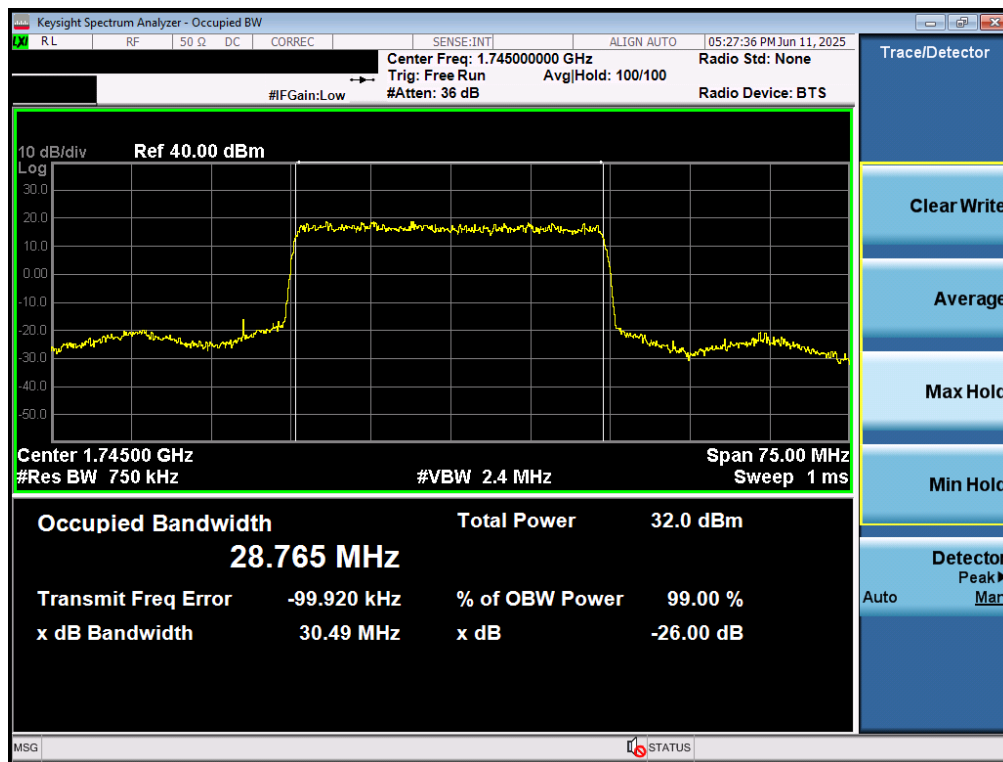


Plot 7-27. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 32 of 125

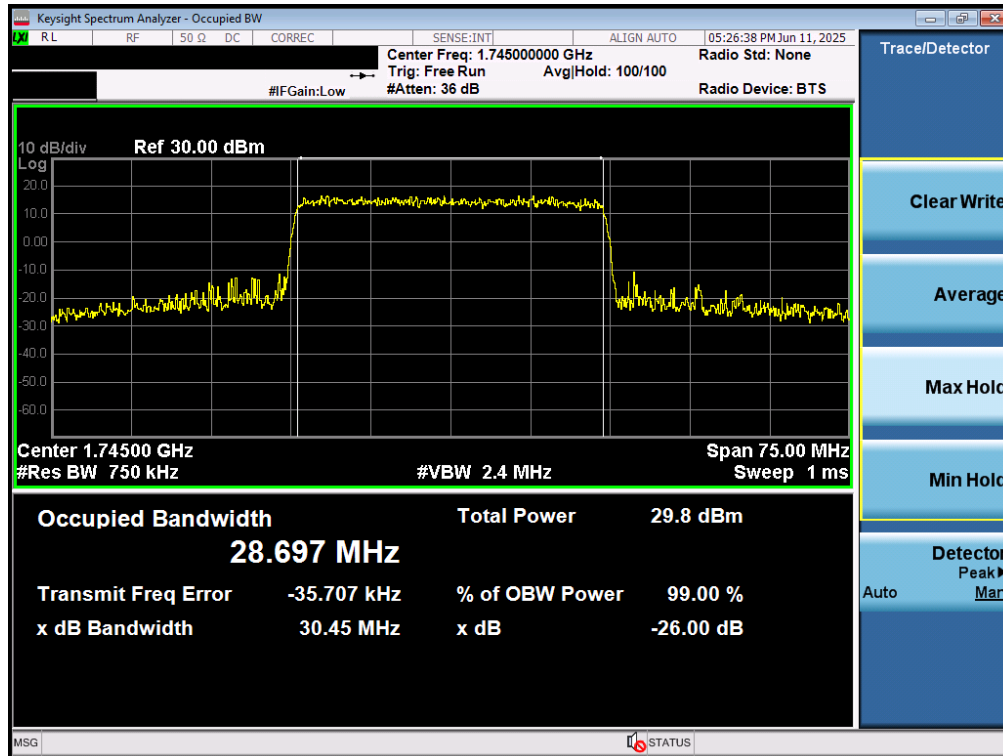


Plot 7-28. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB – ANT1)

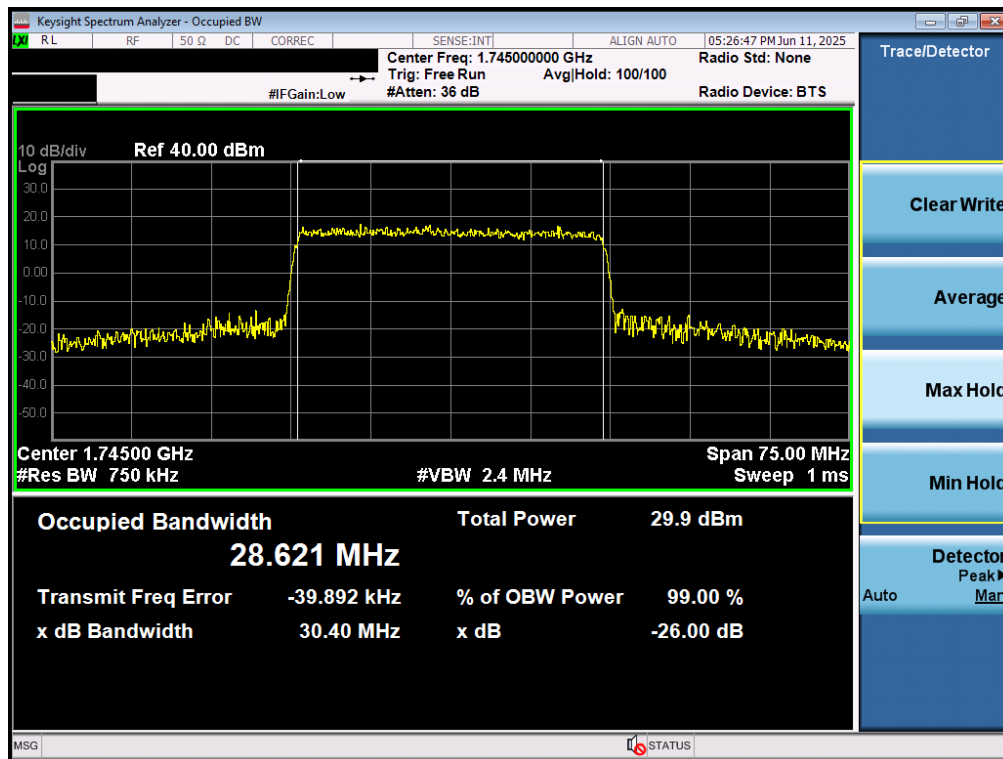


Plot 7-29. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 33 of 125

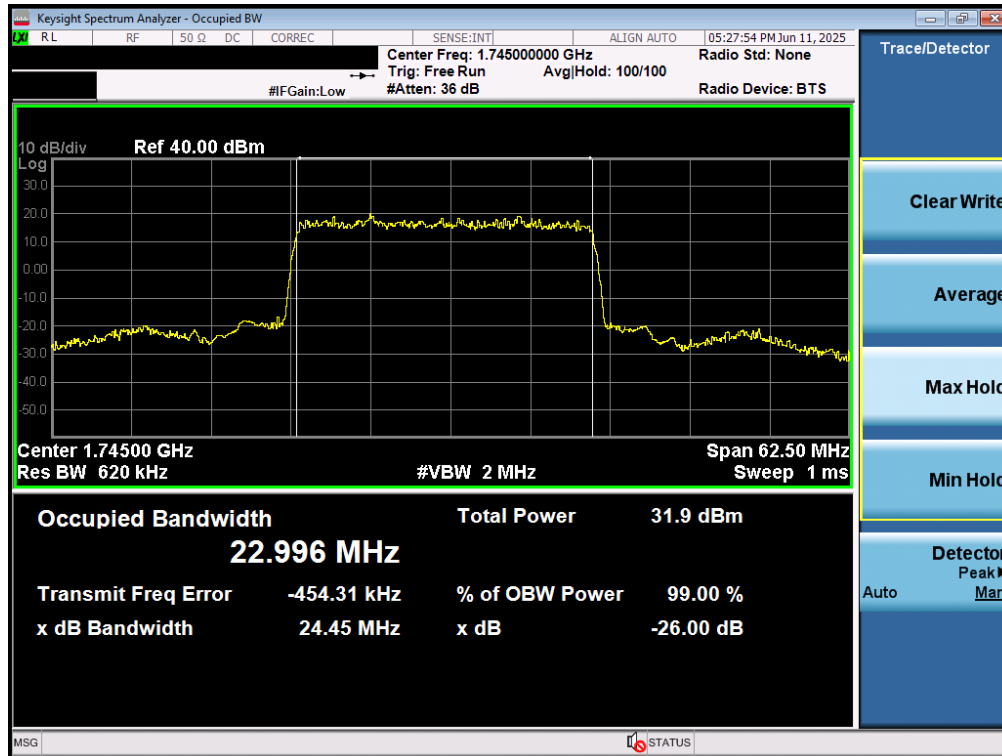


Plot 7-30. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB – ANT1)

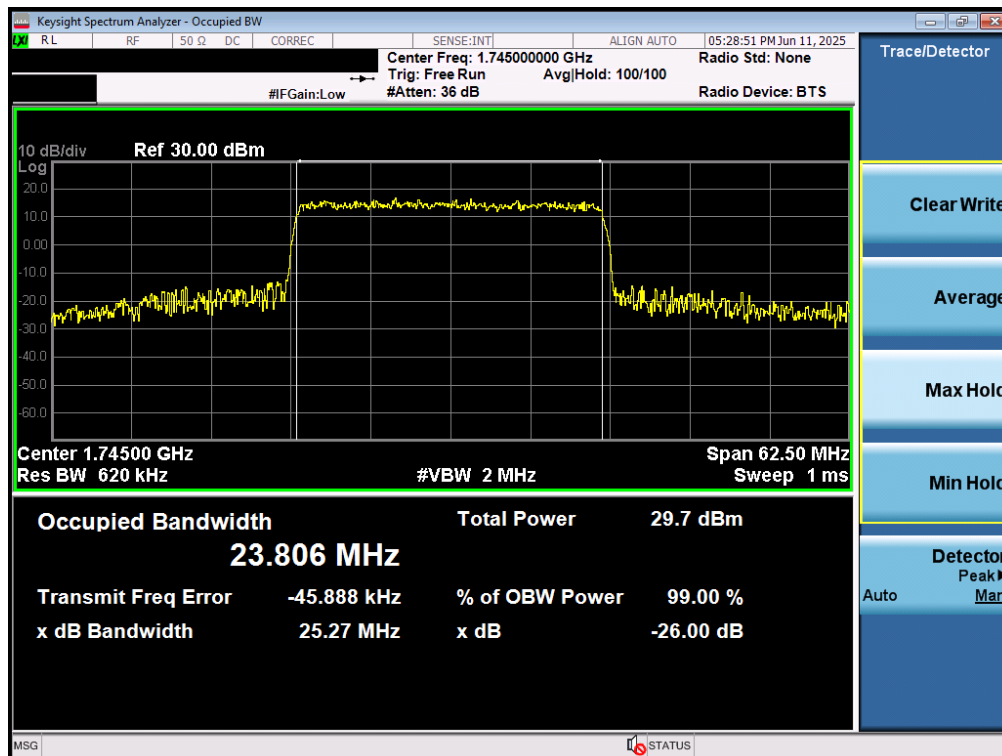


Plot 7-31. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 34 of 125

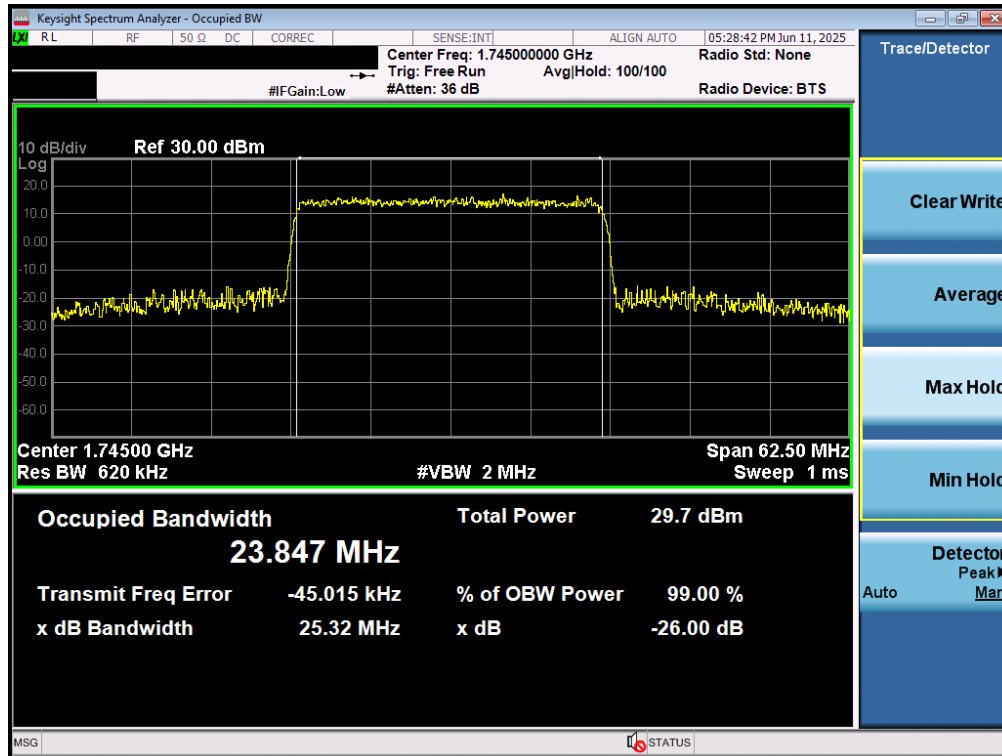


Plot 7-32. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz DFT-s-OFDM BPSK - Full RB – ANT1)

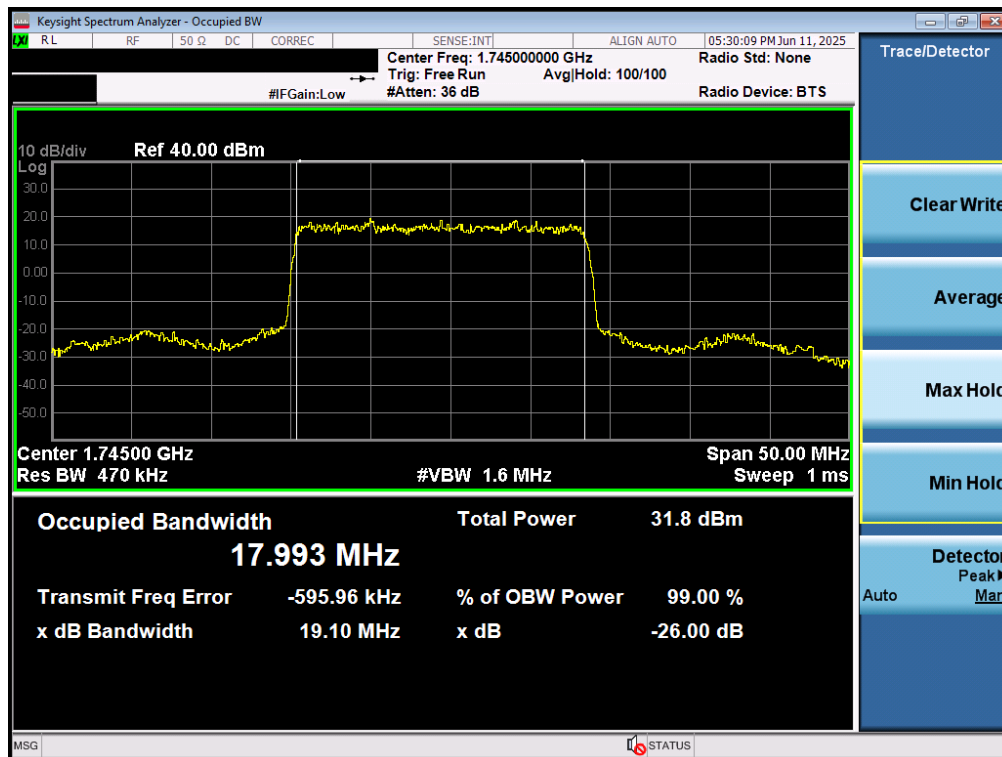


Plot 7-33. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM QPSK - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 35 of 125

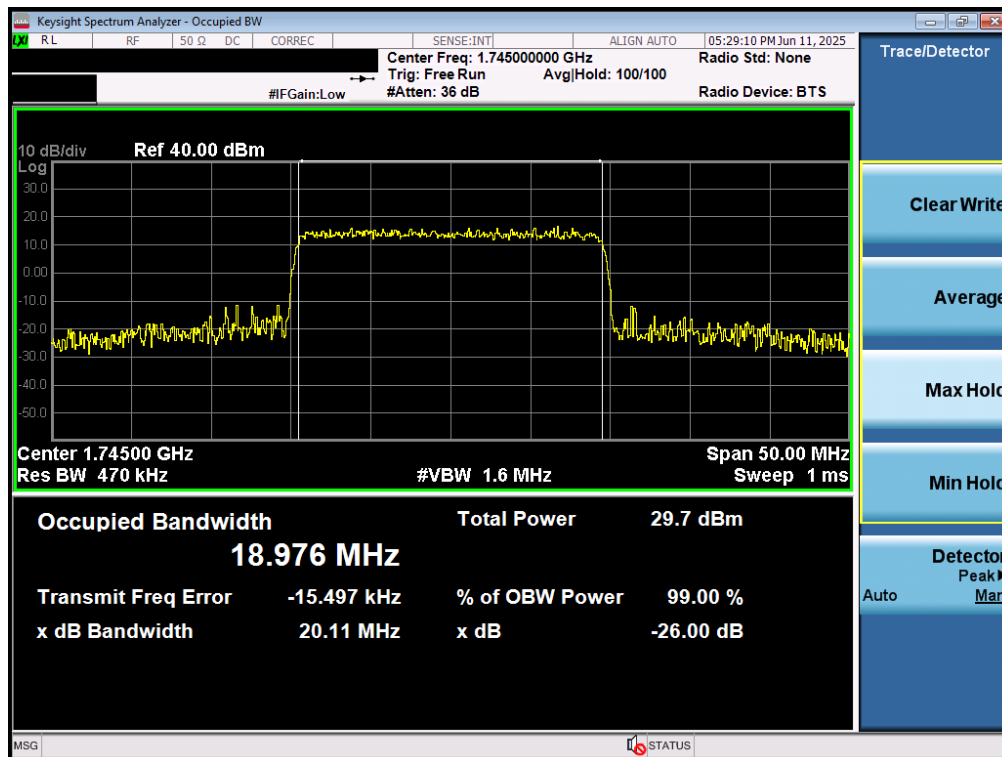


Plot 7-34. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 16QAM - Full RB – ANT1)

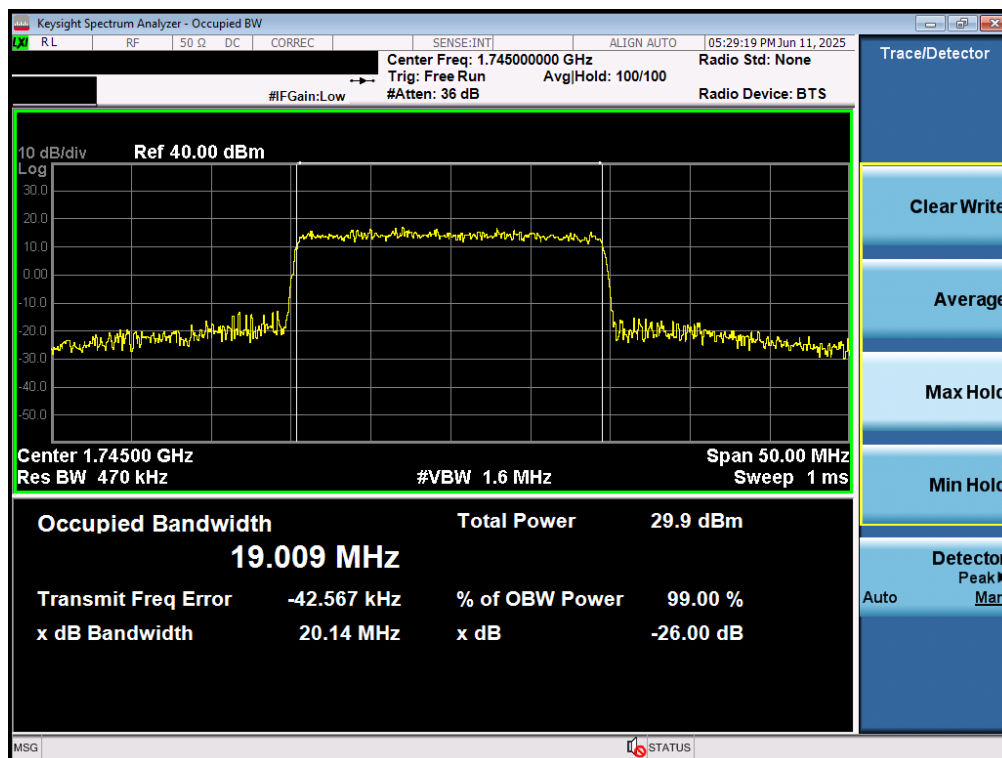


Plot 7-35. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 36 of 125

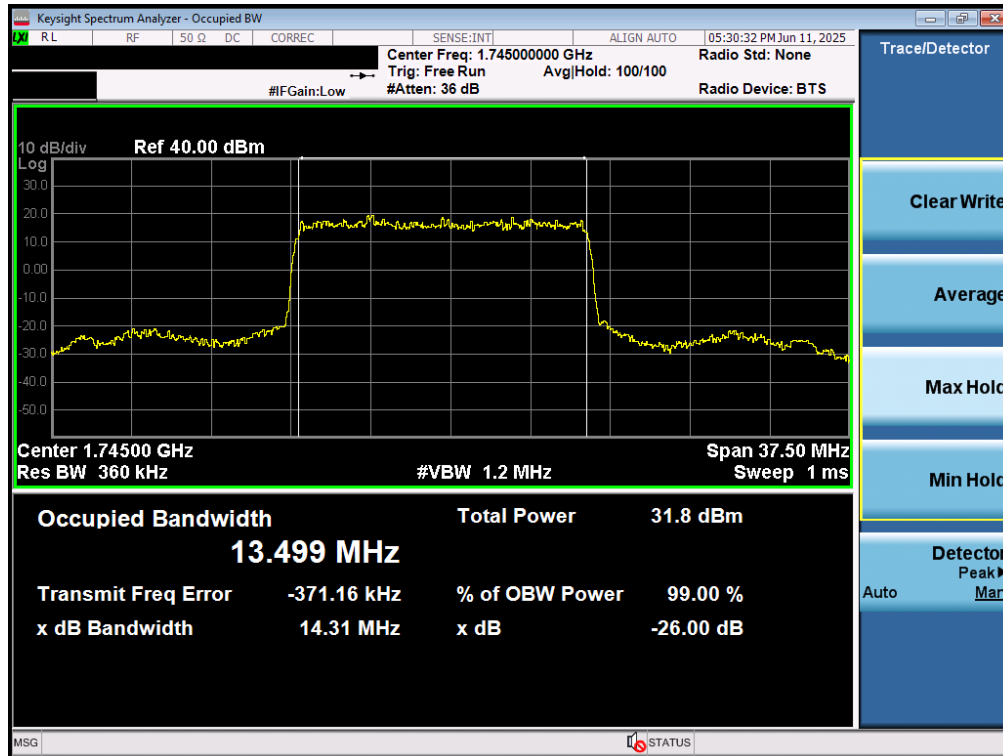


Plot 7-36. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB – ANT1)

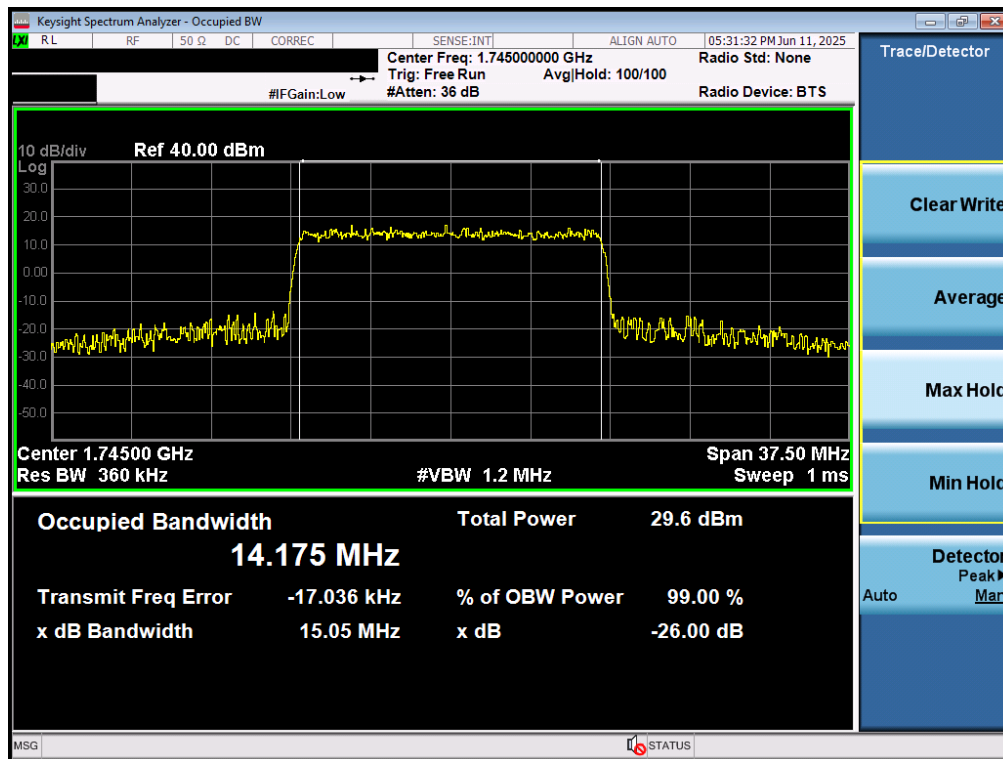


Plot 7-37. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 37 of 125

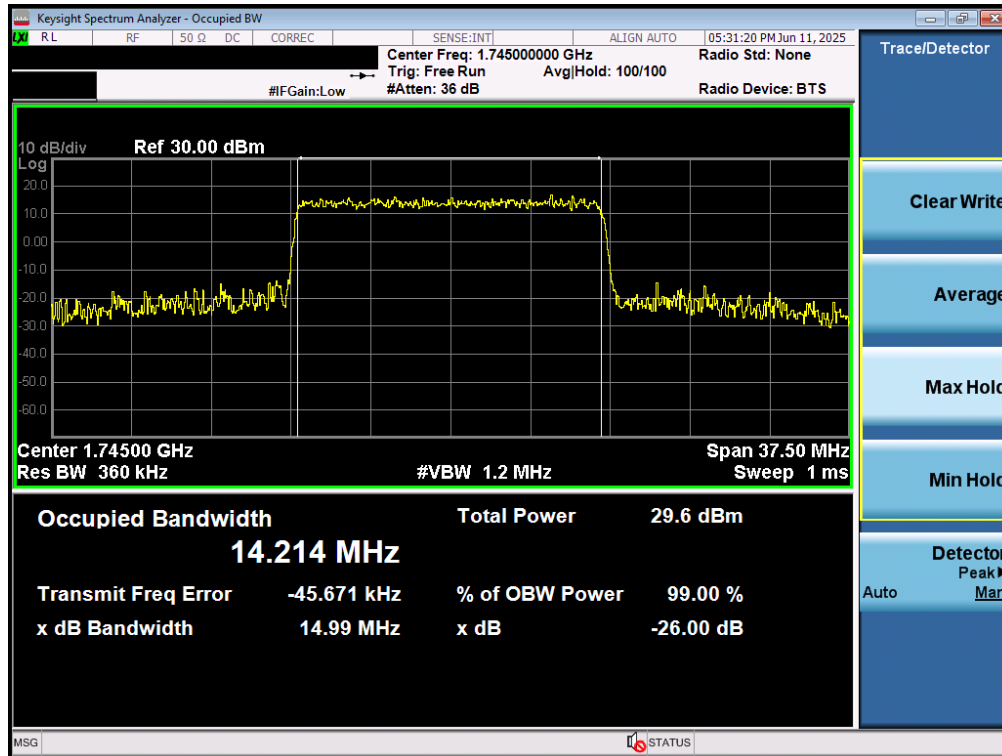


Plot 7-38. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB – ANT1)

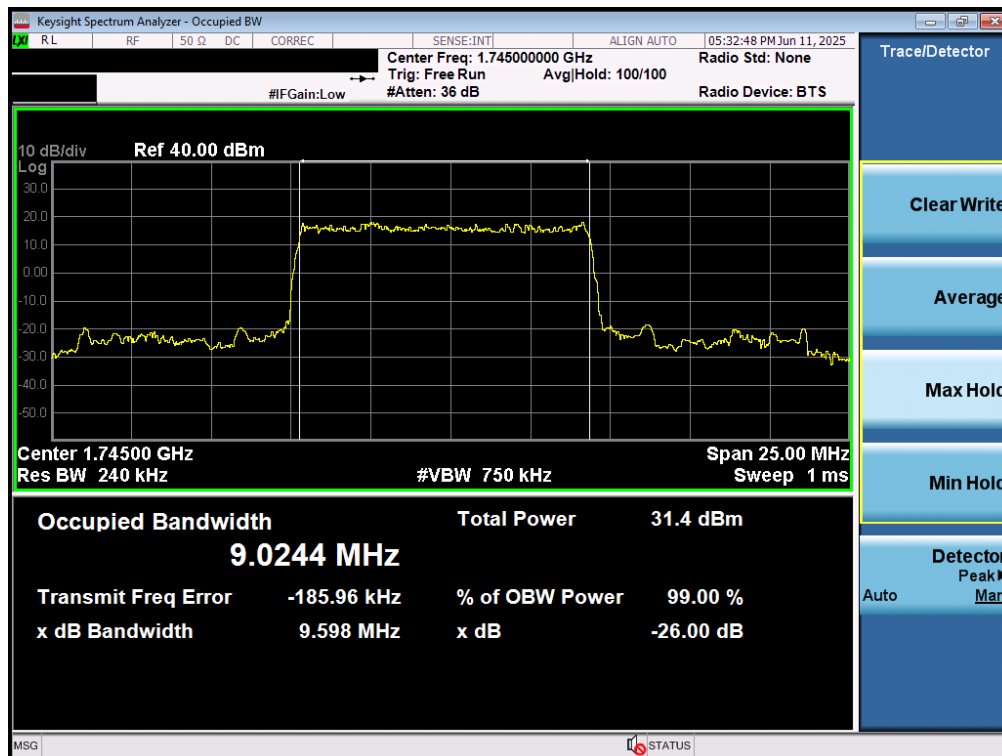


Plot 7-39. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 38 of 125

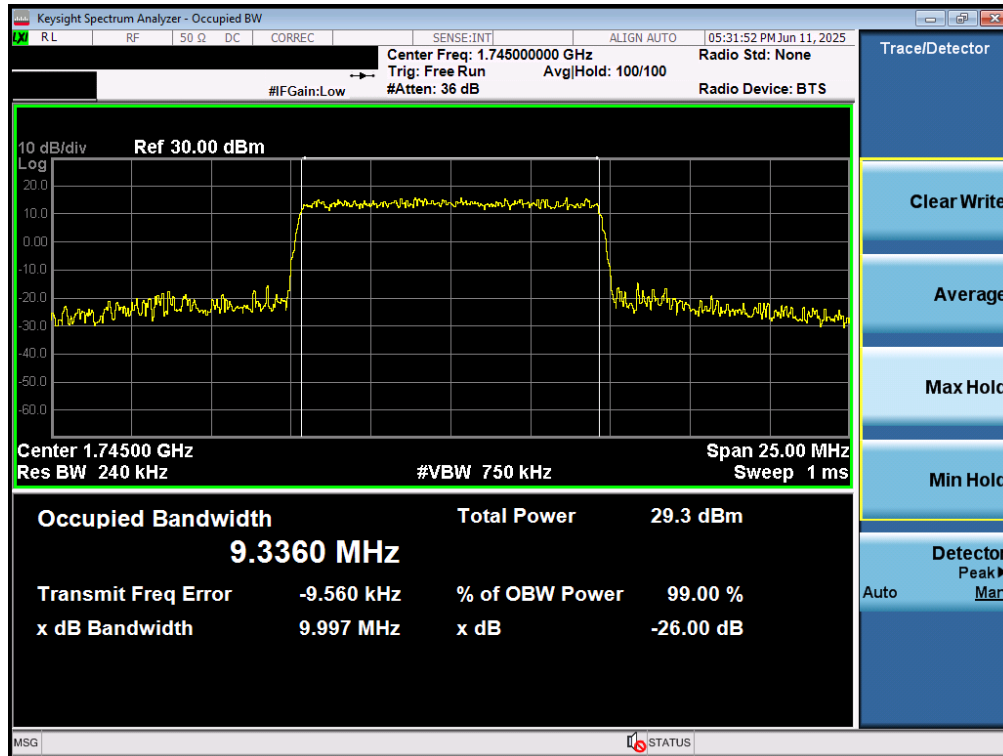


Plot 7-40. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB – ANT1)

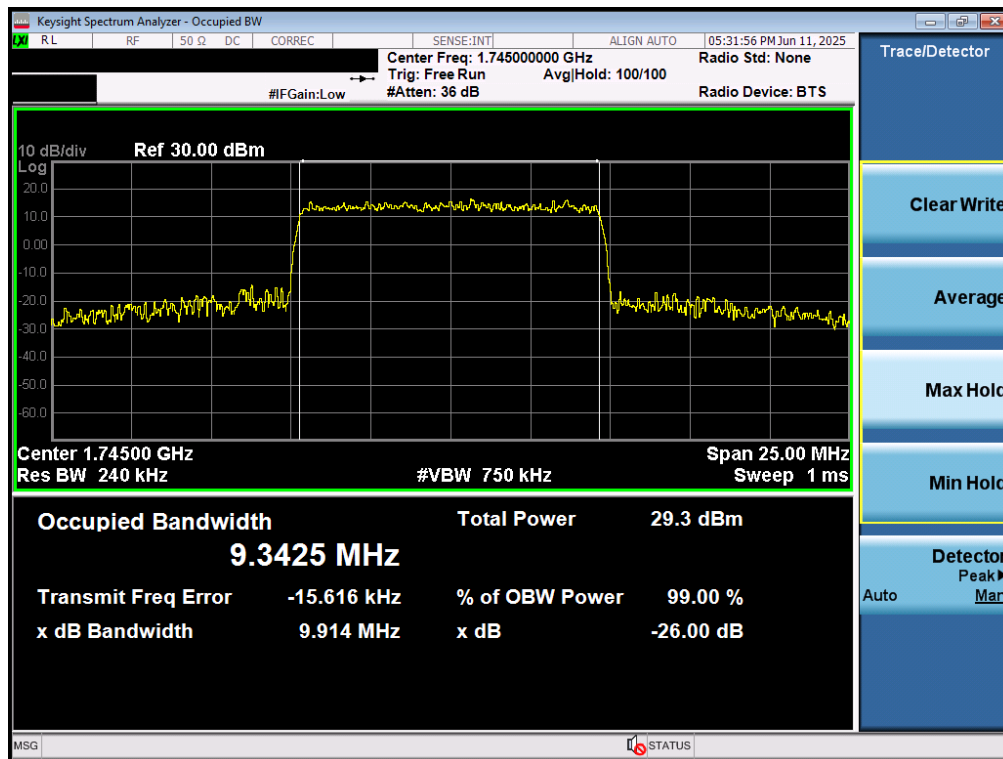


Plot 7-41. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 39 of 125

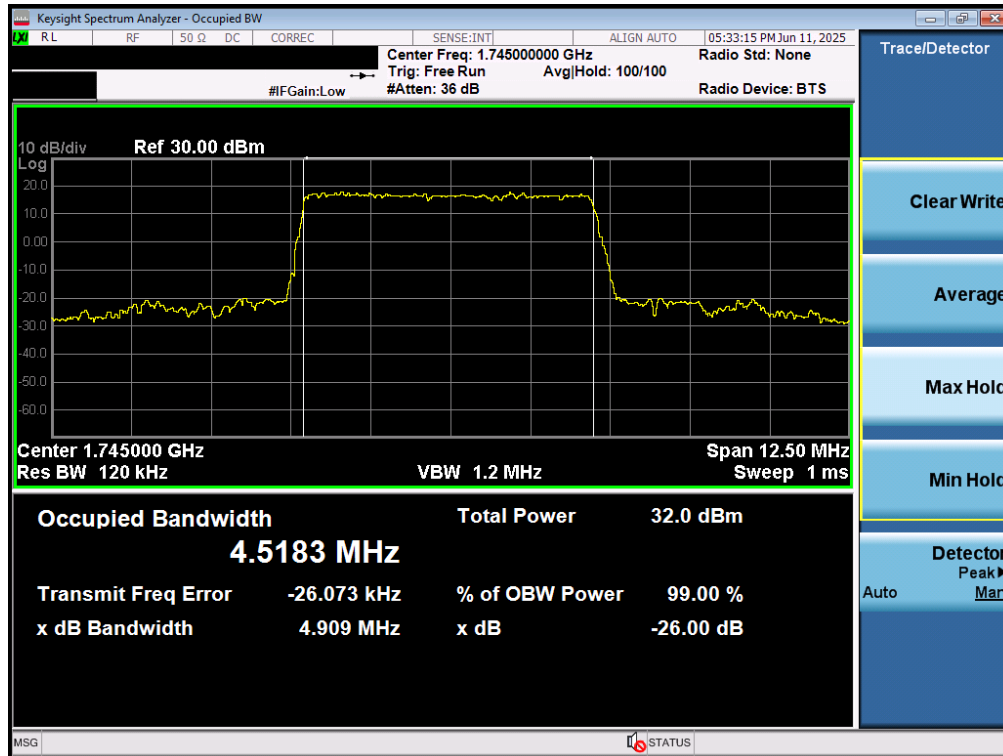


Plot 7-42. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB – ANT1)

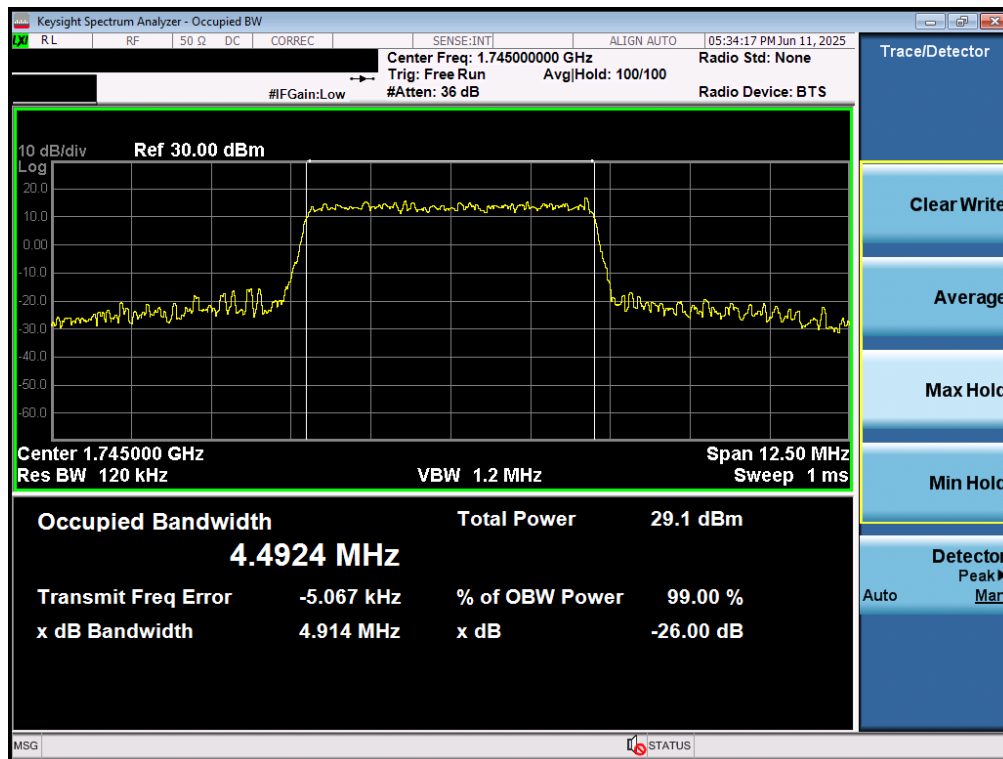


Plot 7-43. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 40 of 125

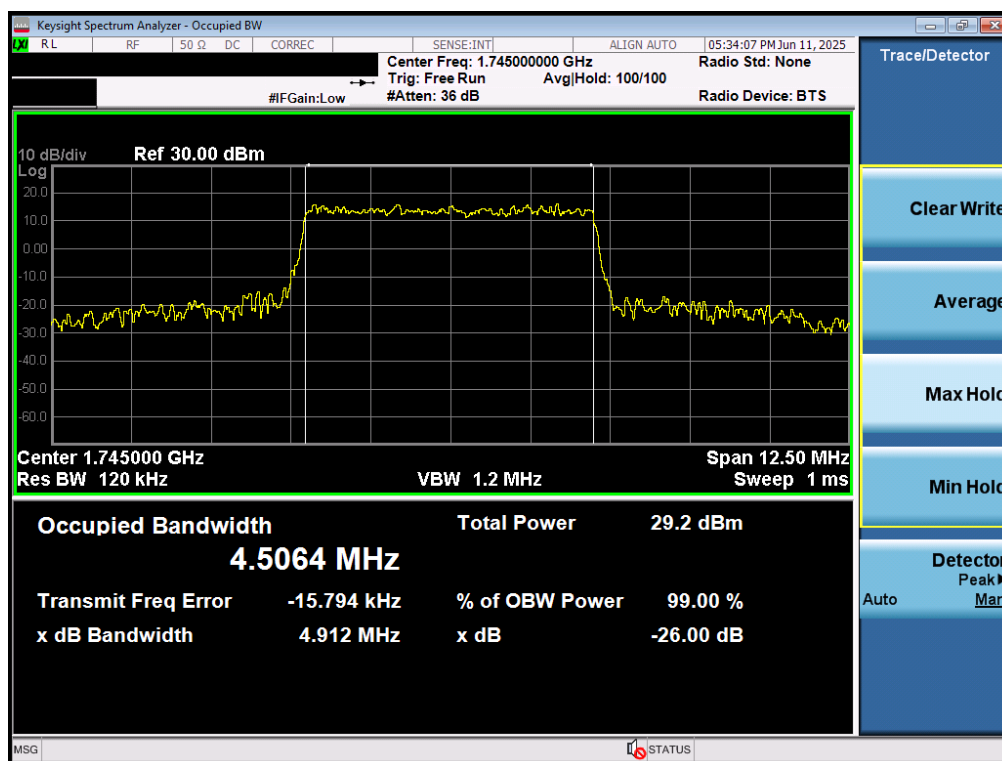


Plot 7-44. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB – ANT1)



Plot 7-45. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 41 of 125



Plot 7-46. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – ANT1)

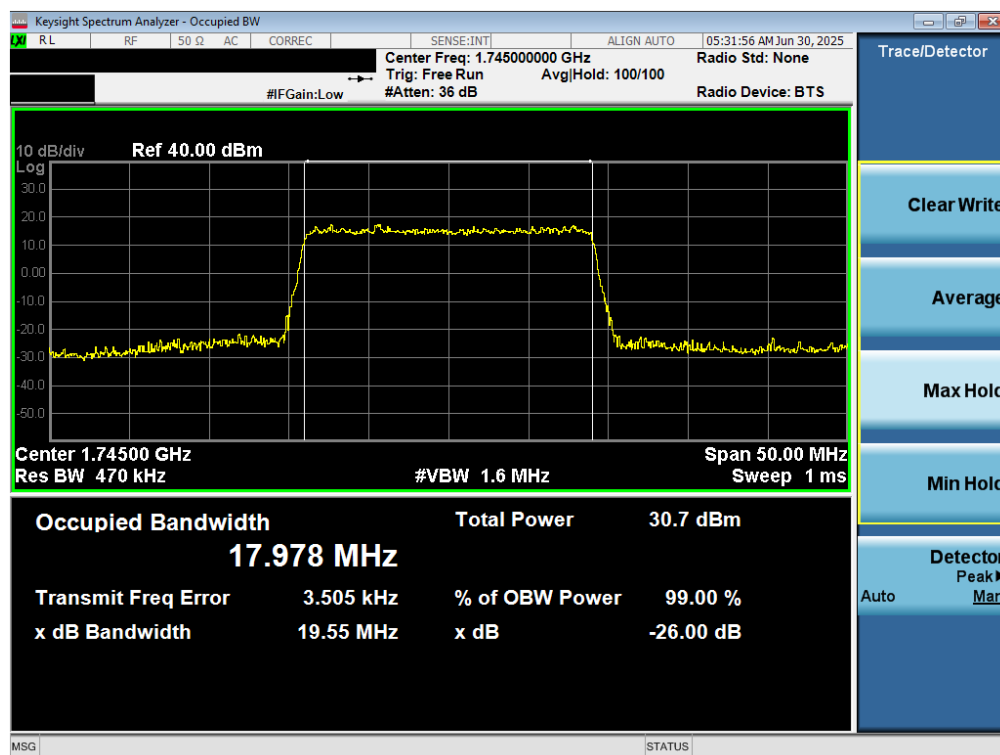
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 42 of 125

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B66-4	20MHz	QPSK	17.98
		16QAM	18.02
	15MHz	QPSK	13.56
		16QAM	13.51
	10MHz	QPSK	9.06
		16QAM	9.00
	5MHz	QPSK	4.51
		16QAM	4.50
	3MHz	QPSK	2.70
		16QAM	2.71
	1.4MHz	QPSK	1.10
		16QAM	1.11

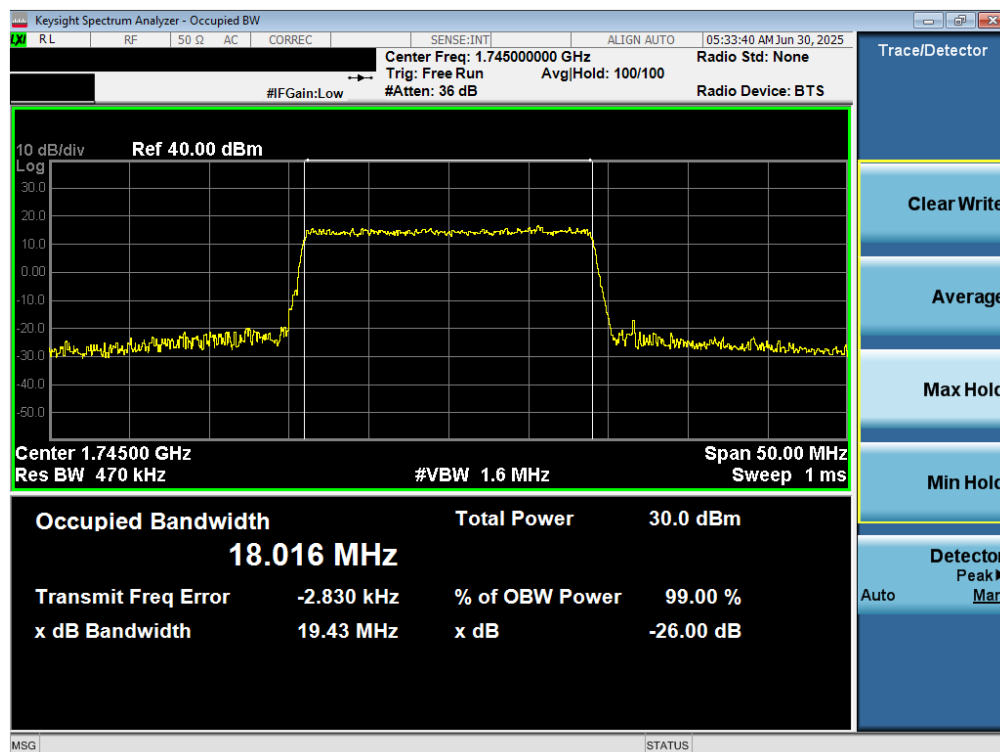
Table 7-5. Occupied Bandwidth Results – Ant2

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 43 of 125

LTE Band 66/4 - ANT2

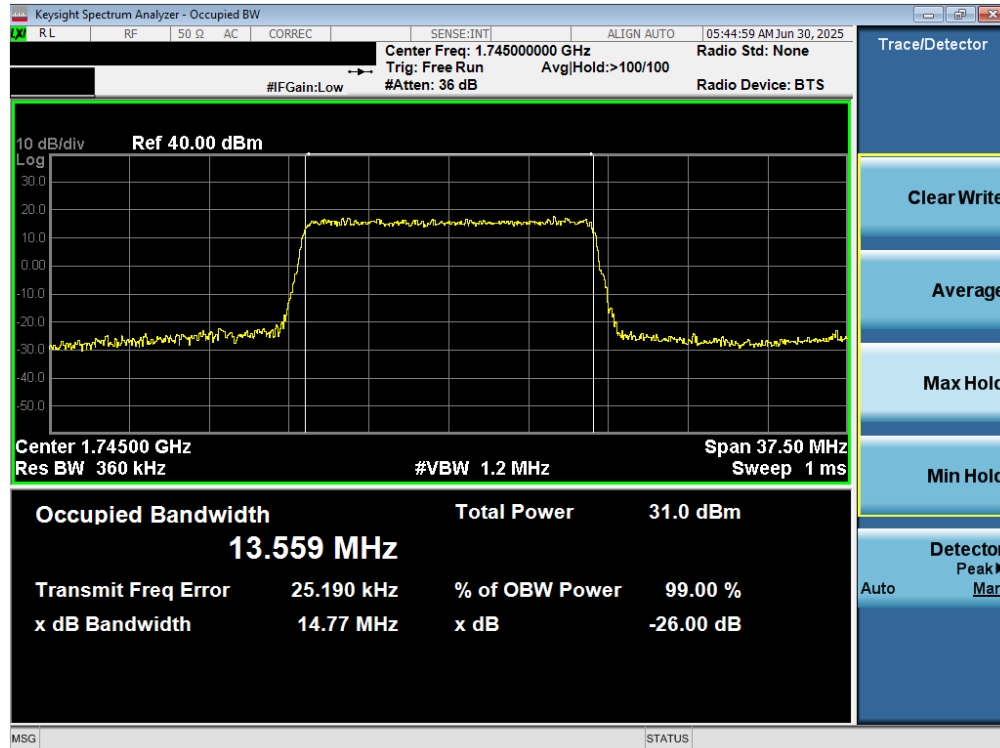


Plot 7-47. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT2)

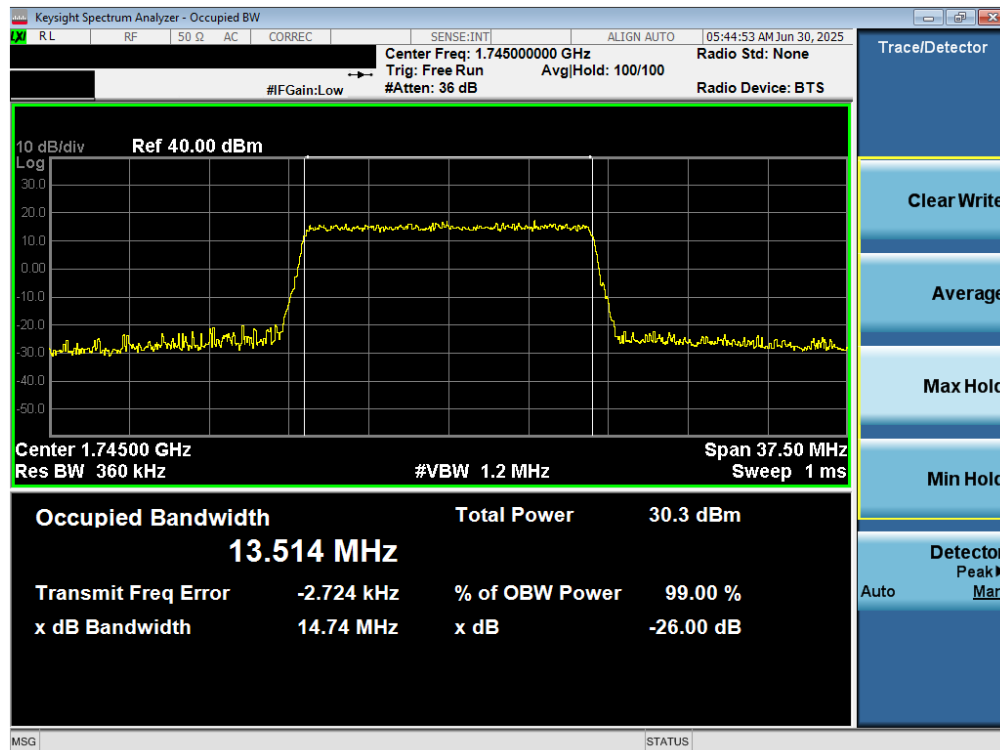


Plot 7-48. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 44 of 125

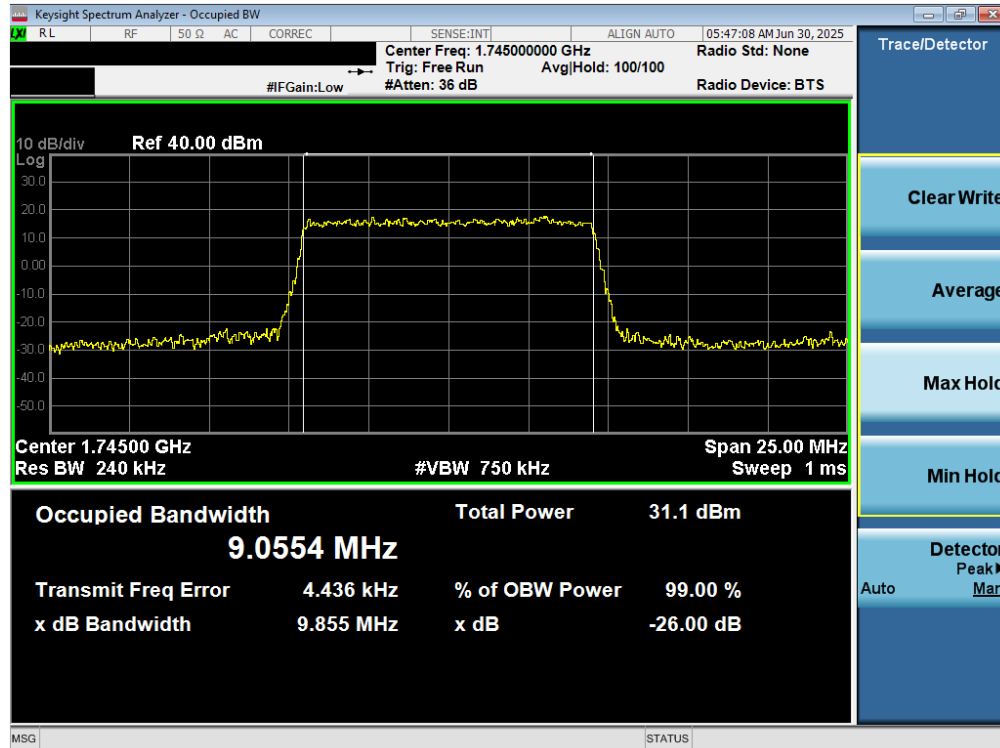


Plot 7-49. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - ANT2)

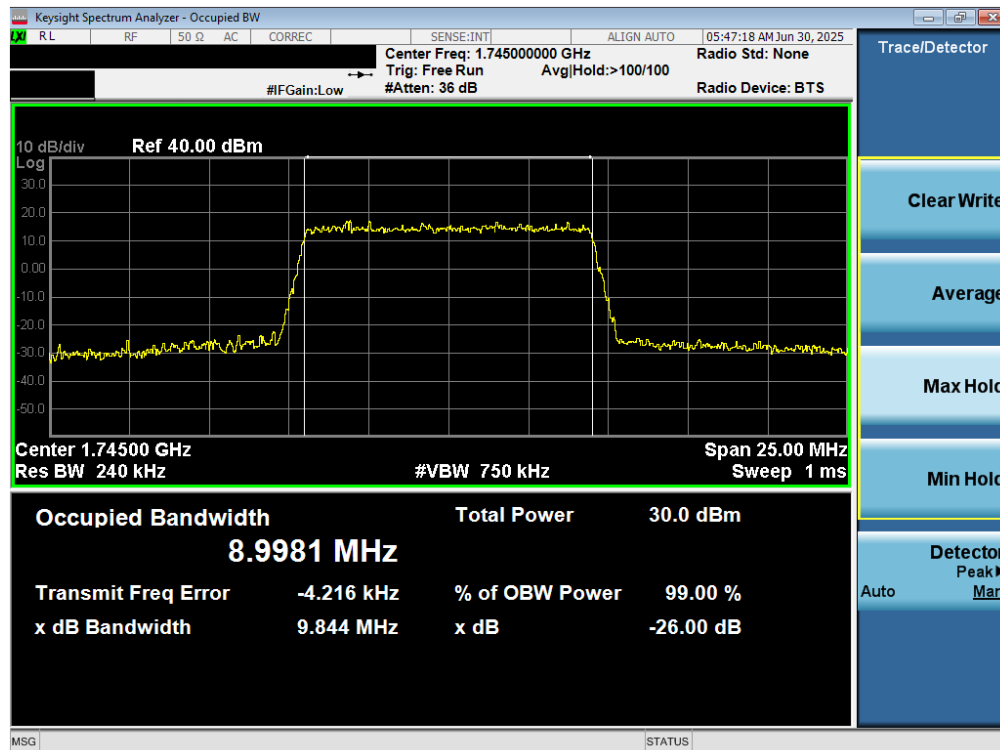


Plot 7-50. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 45 of 125

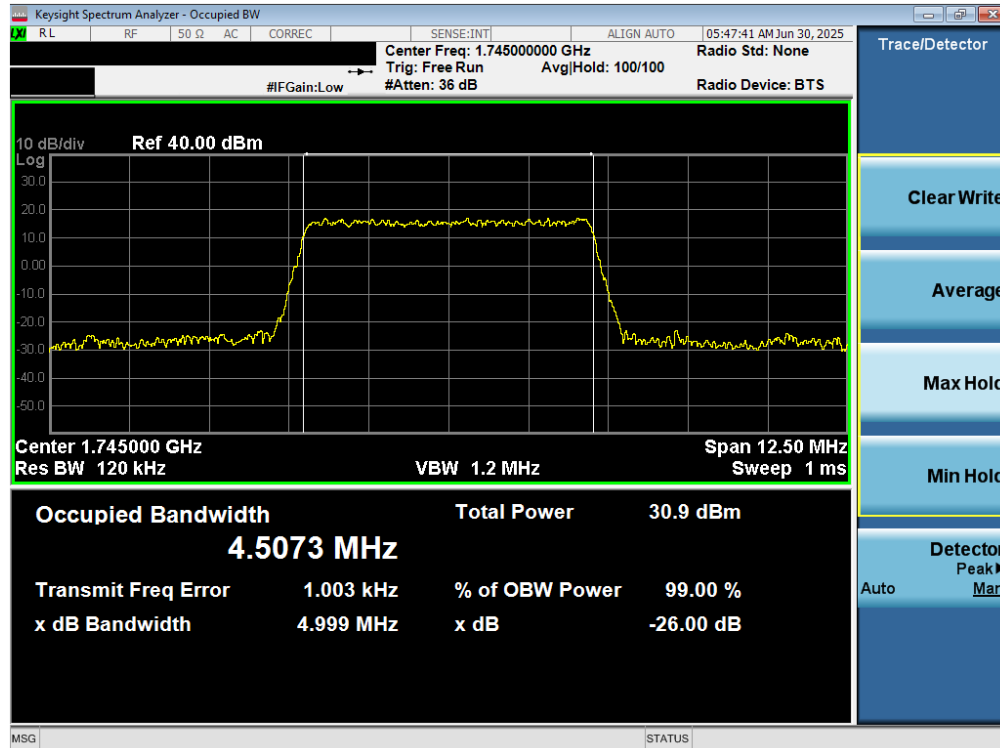


Plot 7-51. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT2)

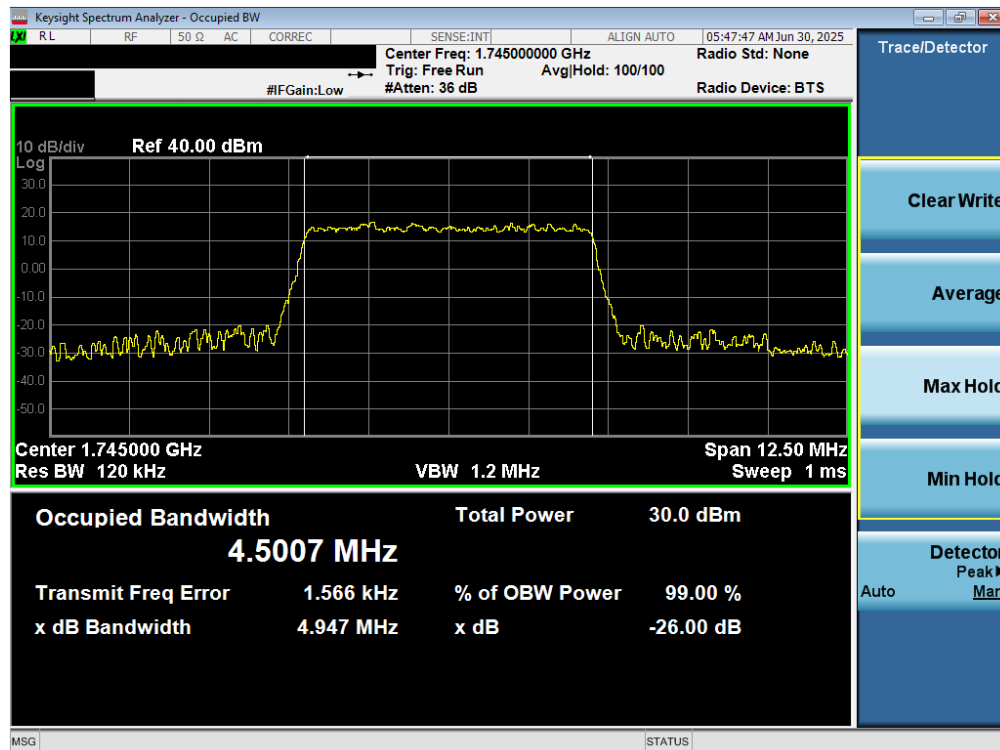


Plot 7-52. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 46 of 125

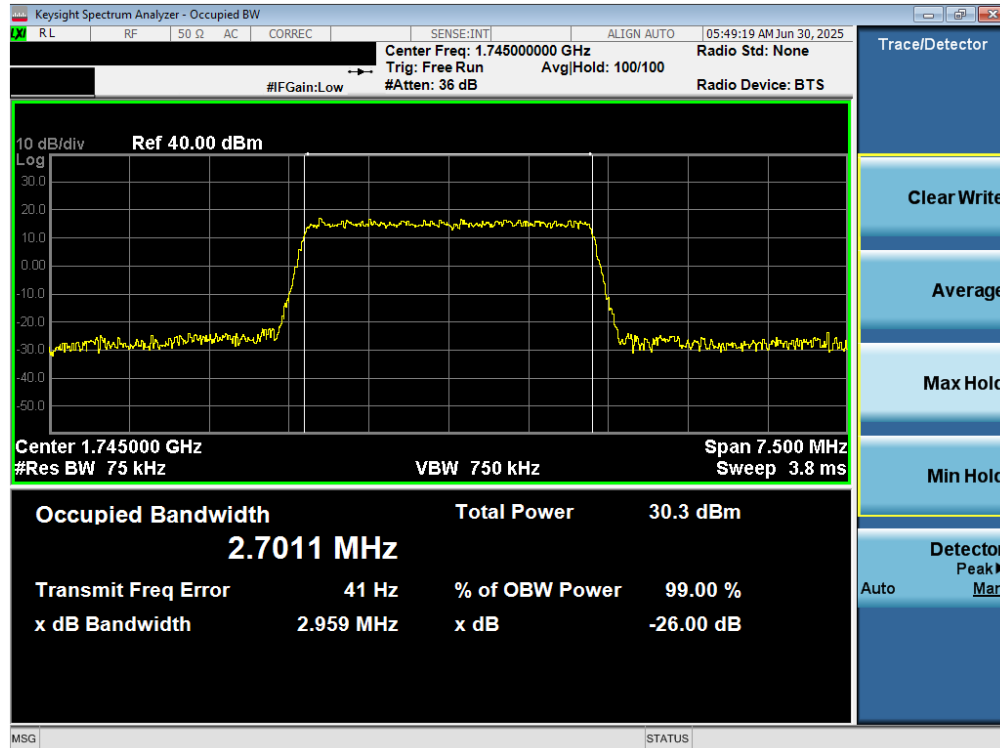


Plot 7-53. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - ANT2)

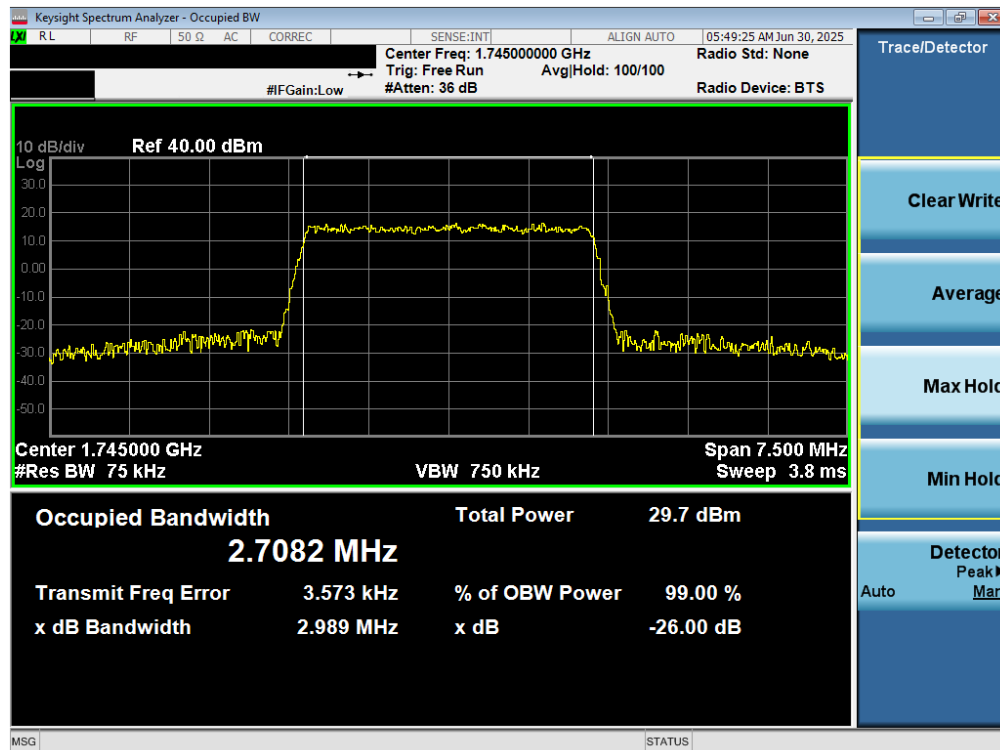


Plot 7-54. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 47 of 125

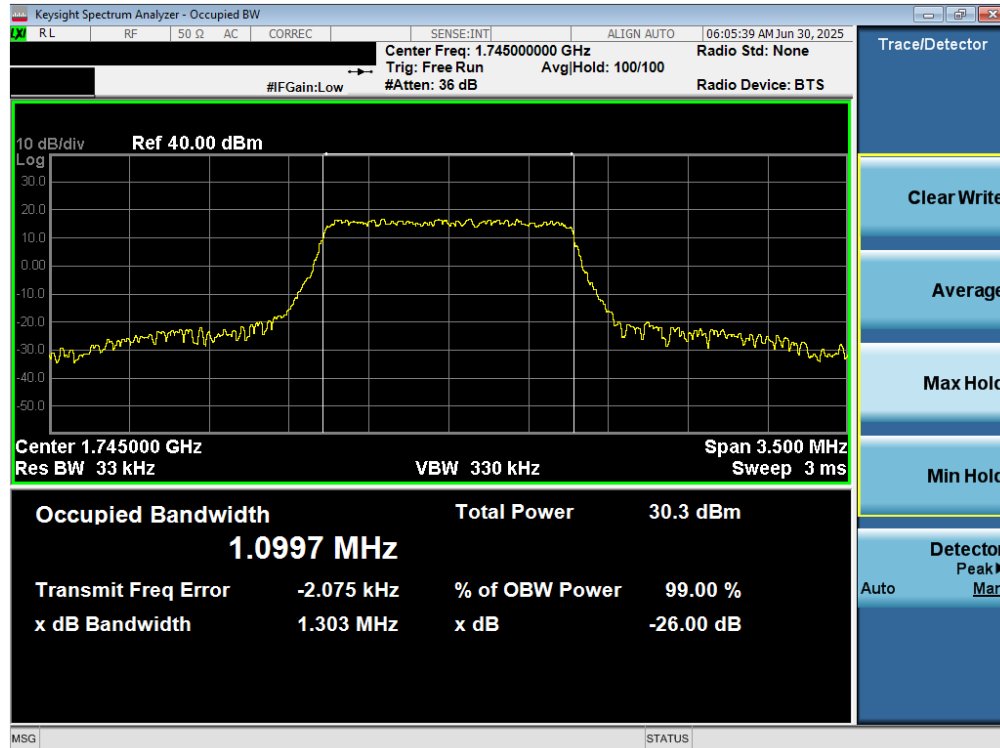


Plot 7-55. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT2)

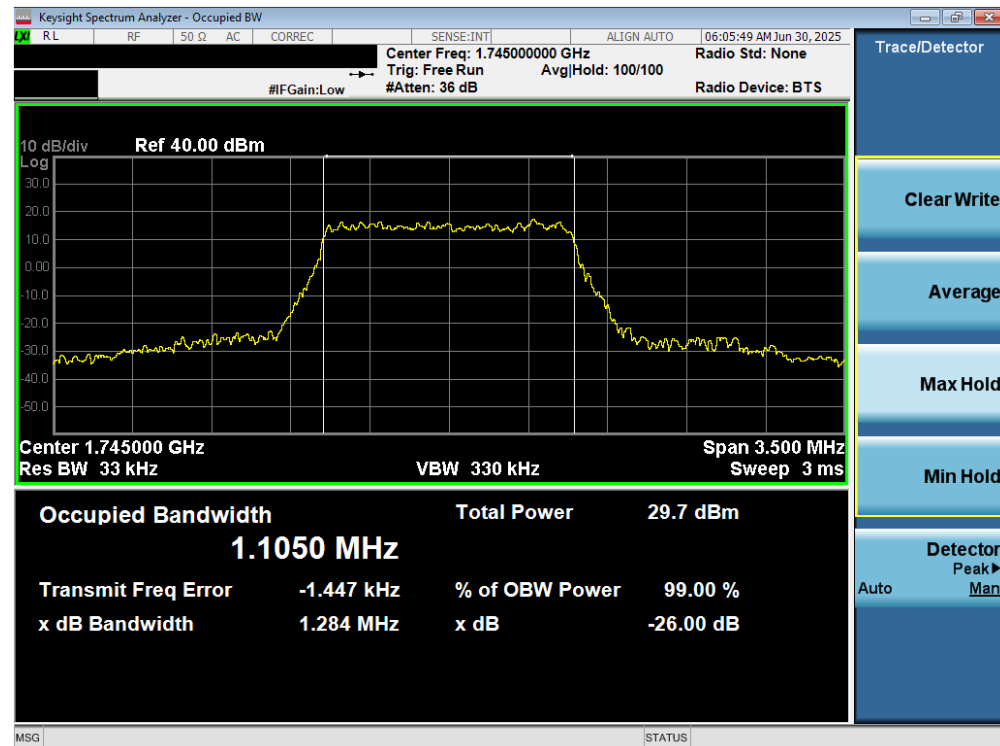


Plot 7-56. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 48 of 125



Plot 7-57. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - ANT2)



Plot 7-58. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 49 of 125

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 $43 + 10 \log_{10}(P_{[Watts]})$, 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 18GHz (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.

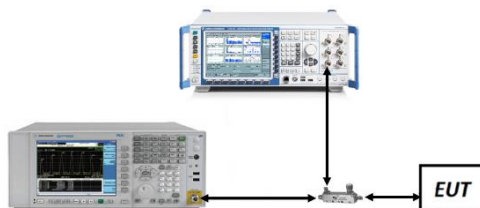


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz.
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: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 50 of 125

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	30.0 - 1705.0	-31.74	-13	-18.74
		Low	1755.0 - 10000.0	-45.86	-13	-32.86
		Low	10000.0 - 20000.0	-61.20	-13	-48.20
		Mid	30.0 - 1710.0	-53.08	-13	-40.08
		Mid	1755.0 - 10000.0	-45.98	-13	-32.98
		Mid	10000.0 - 20000.0	-61.23	-13	-48.23
		High	30.0 - 1710.0	-53.12	-13	-40.12
		High	1760.0 - 10000.0	-36.80	-13	-23.80
		High	10000.0 - 20000.0	-60.96	-13	-47.96
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-41.40	-13	-28.40
		Low	698.0 - 1000.0	-46.39	-13	-33.39
		Low	1000.0 - 10000.0	-62.07	-13	-49.07
		Mid	30.0 - 663.0	-52.37	-13	-39.37
		Mid	698.0 - 1000.0	-45.98	-13	-32.98
		Mid	1000.0 - 10000.0	-62.17	-13	-49.17
		High	30.0 - 663.0	-52.86	-13	-39.86
		High	698.0 - 1000.0	-40.73	-13	-27.73
		High	1000.0 - 10000.0	-62.11	-13	-49.11
NR Band n66	40 MHz	Low	30.0 - 1710.0	-43.48	-13	-30.48
		Low	1780.0 - 10000.0	-45.61	-13	-32.61
		Low	10000.0 - 20000.0	-61.37	-13	-48.37
		Mid	30.0 - 1710.0	-51.27	-13	-38.27
		Mid	1780.0 - 10000.0	-46.39	-13	-33.39
		Mid	10000.0 - 20000.0	-61.44	-13	-48.44
		High	30.0 - 1710.0	-52.45	-13	-39.45
		High	1780.0 - 10000.0	-42.83	-13	-29.83
		High	10000.0 - 20000.0	-61.05	-13	-48.05

Table 7-6. Conducted Spurious Emissions Results – Ant1

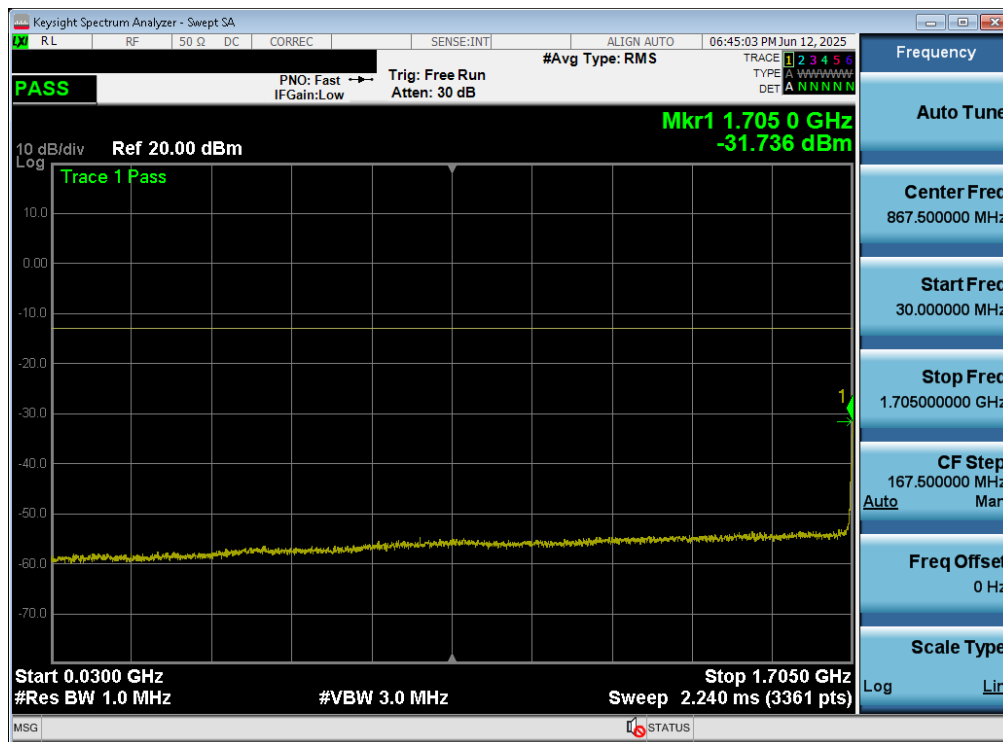
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 51 of 125

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 12/17	10 MHz	Low	30.0 - 697.9	-49.02	-13	-36.02
		Low	716.0 - 1000.0	-58.33	-13	-45.33
		Low	1000.0 - 10000.0	-44.21	-13	-31.21
		Mid	30.0 - 698.0	-55.26	-13	-42.26
		Mid	716.0 - 1000.0	-57.13	-13	-44.13
		Mid	1000.0 - 10000.0	-44.32	-13	-31.32
		High	30.0 - 697.9	-57.52	-13	-44.52
		High	716.1 - 1000.0	-48.96	-13	-35.96
		High	1000.0 - 10000.0	-44.14	-13	-31.14
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-53.30	-35	-18.30
		Mid	787.0 - 1000.0	-62.80	-13	-49.80
		Mid	1000.0 - 20000.0	-42.81	-13	-29.81

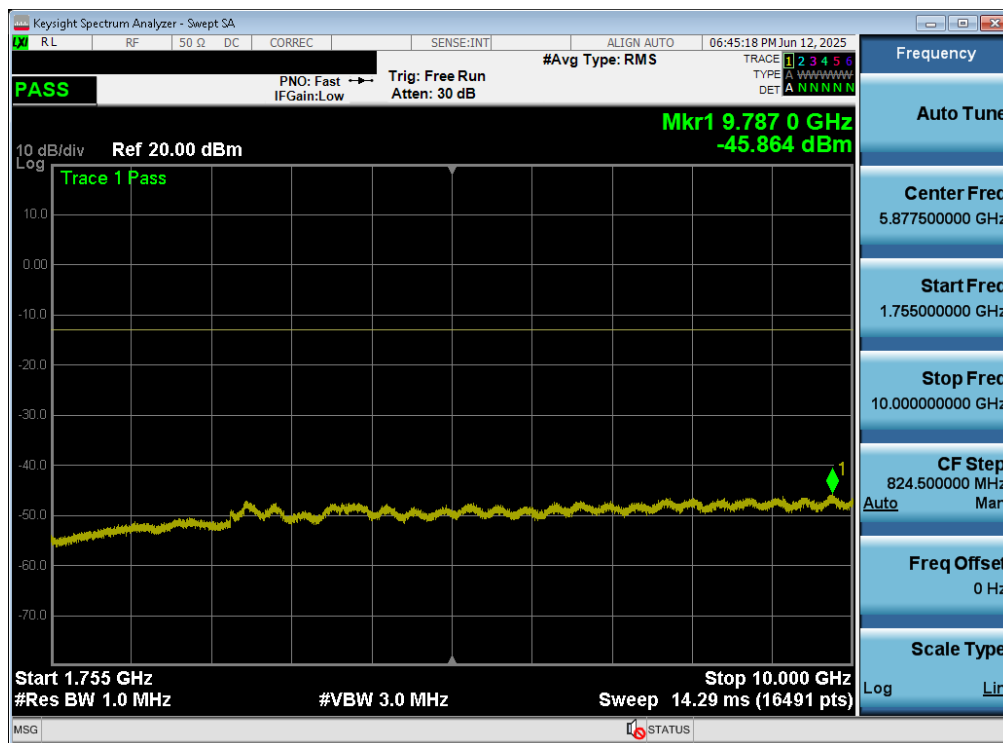
Table 7-7. Conducted Spurious Emissions Results – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 52 of 125

WCDMA-AWS – ANT1

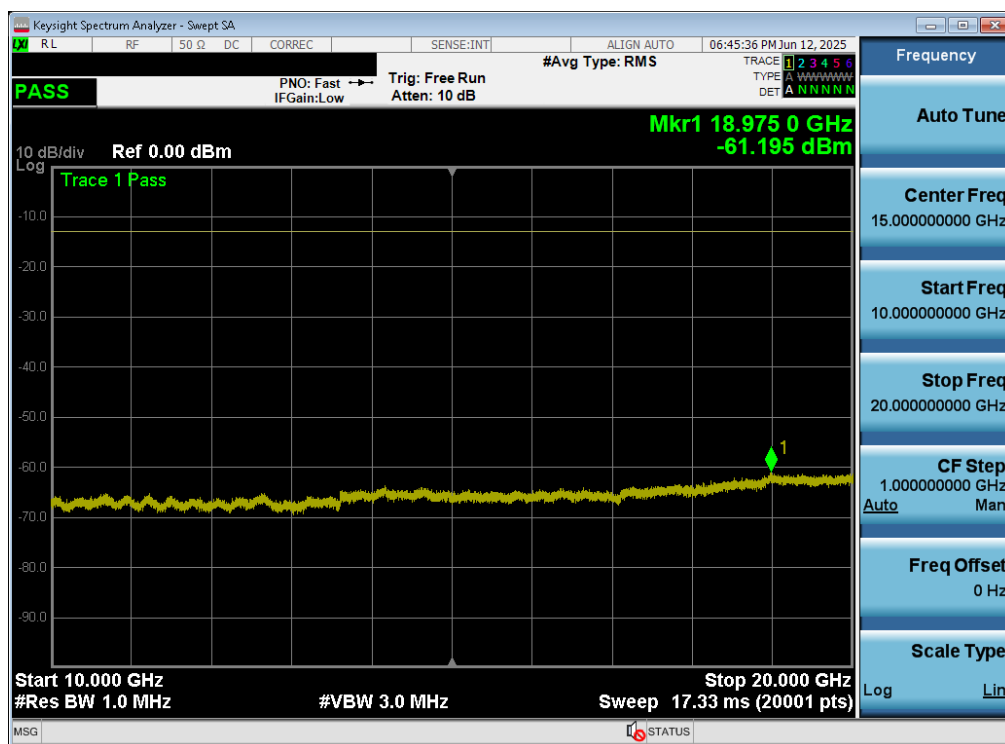


Plot 7-59. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)



Plot 7-60. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

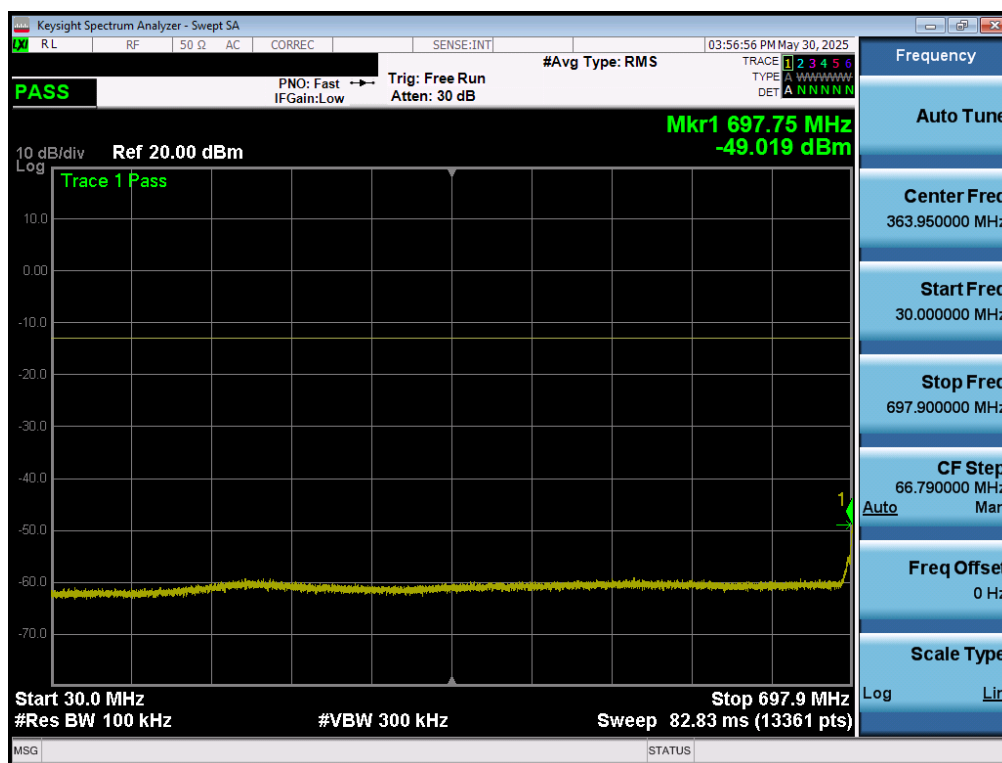
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 53 of 125



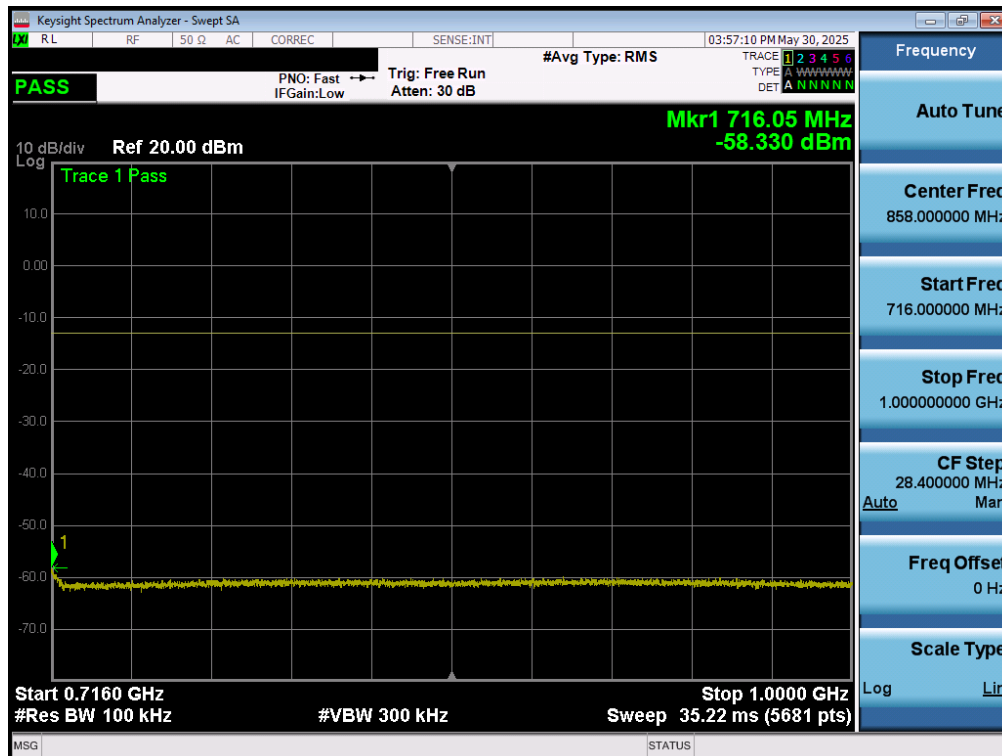
Plot 7-61. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 54 of 125

LTE Band 12/17 – ANT1

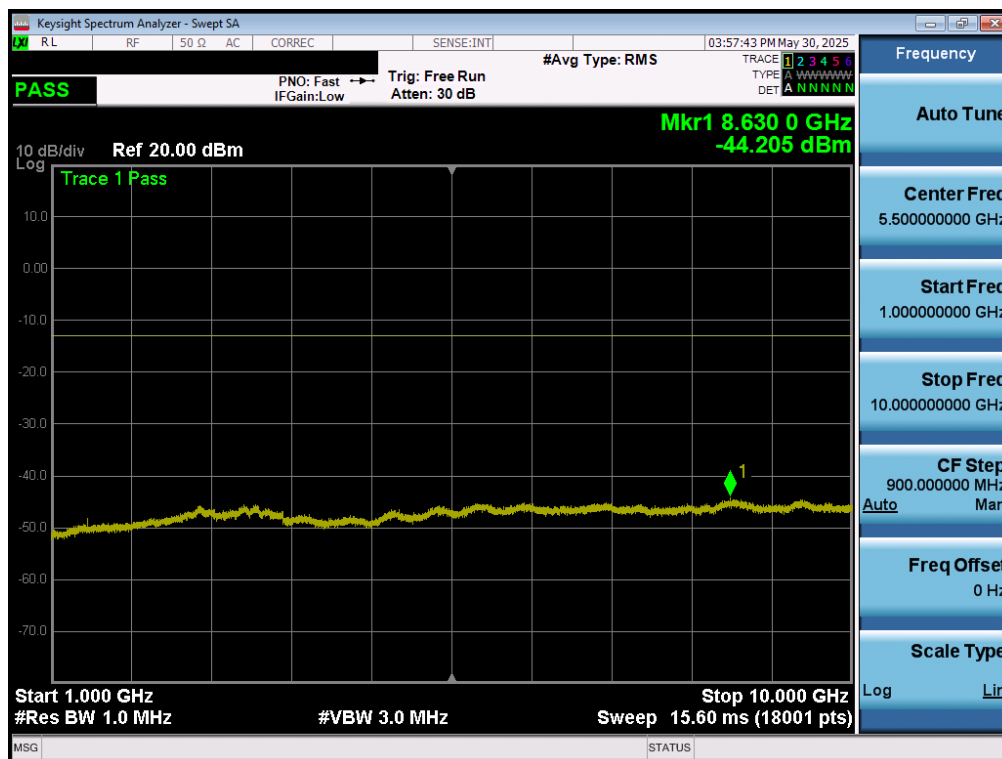


Plot 7-62. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT1)



Plot 7-63. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

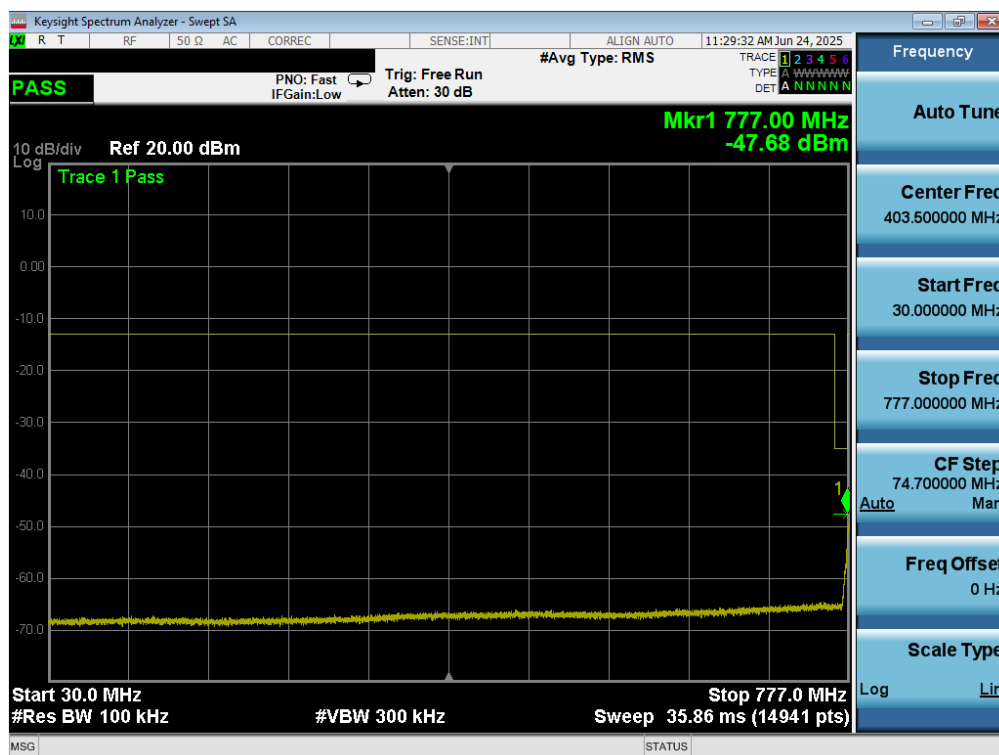
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 55 of 125



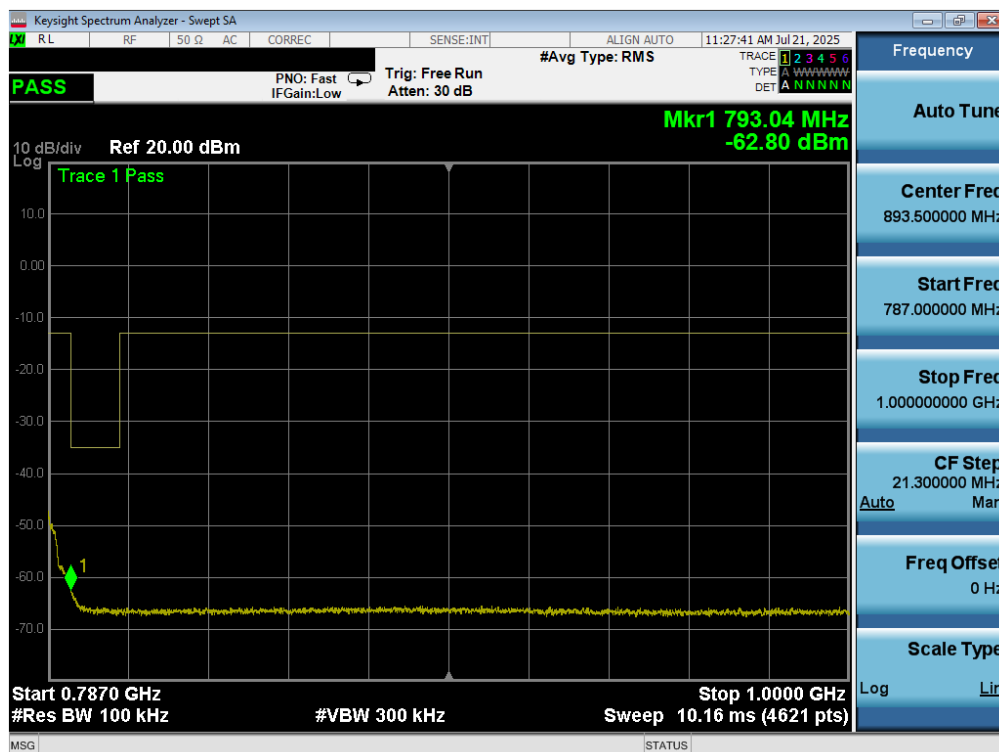
Plot 7-64. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 56 of 125

LTE Band 13 – ANT1

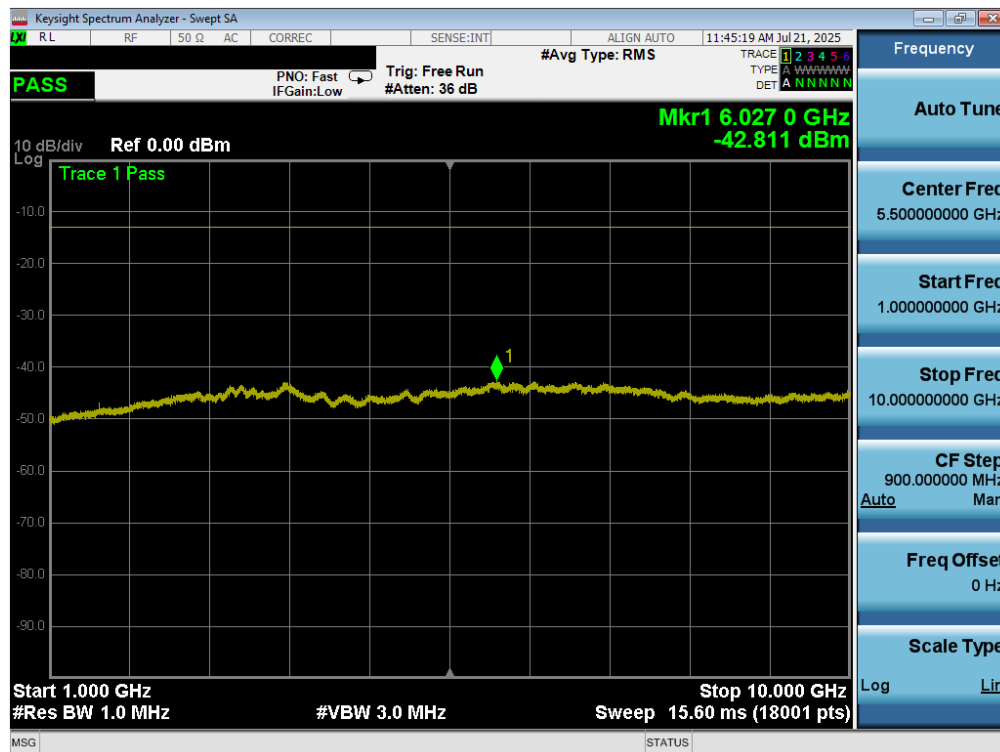


Plot 7-65. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-66. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

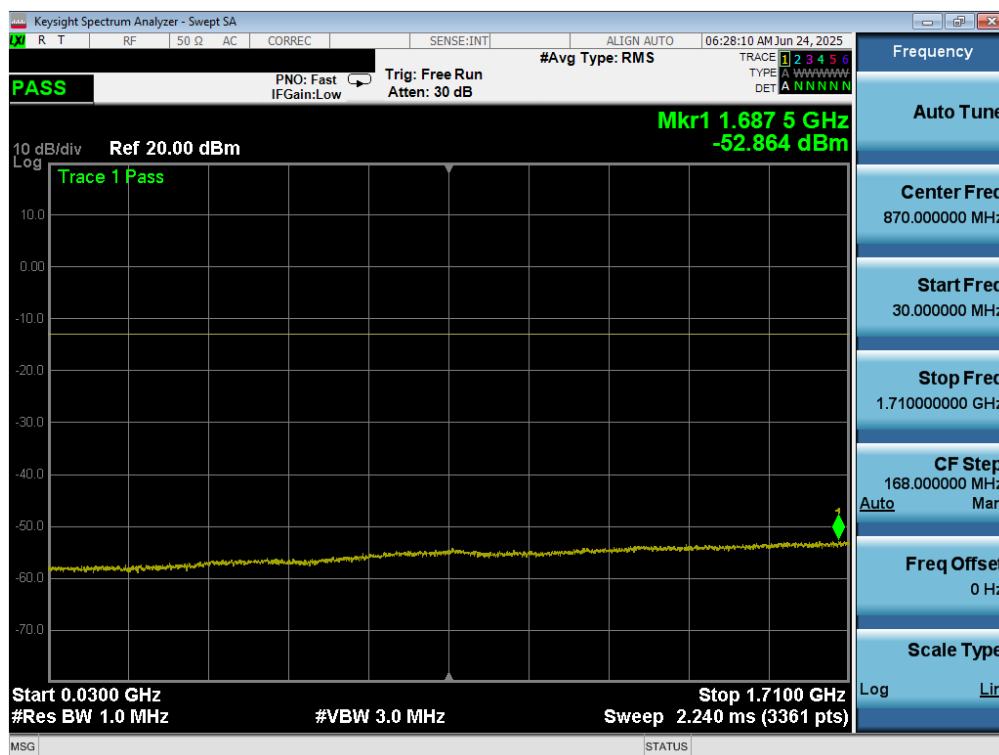
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 57 of 125



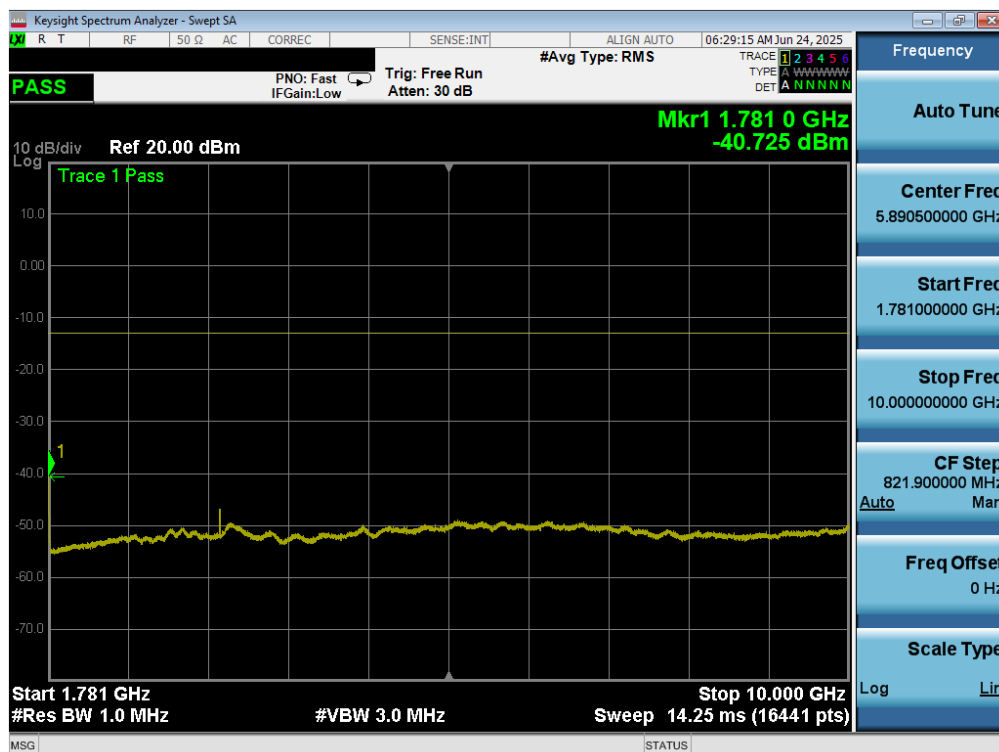
Plot 7-67. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 58 of 125

LTE Band 66/4 – ANT1

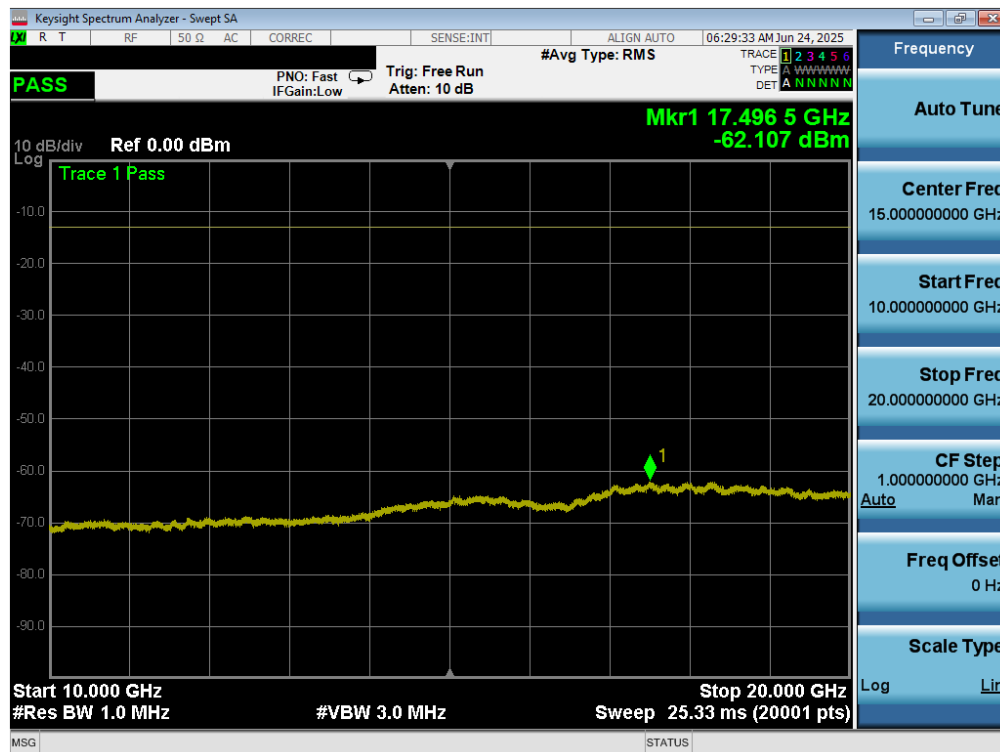


Plot 7-68. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)



Plot 7-69. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 59 of 125



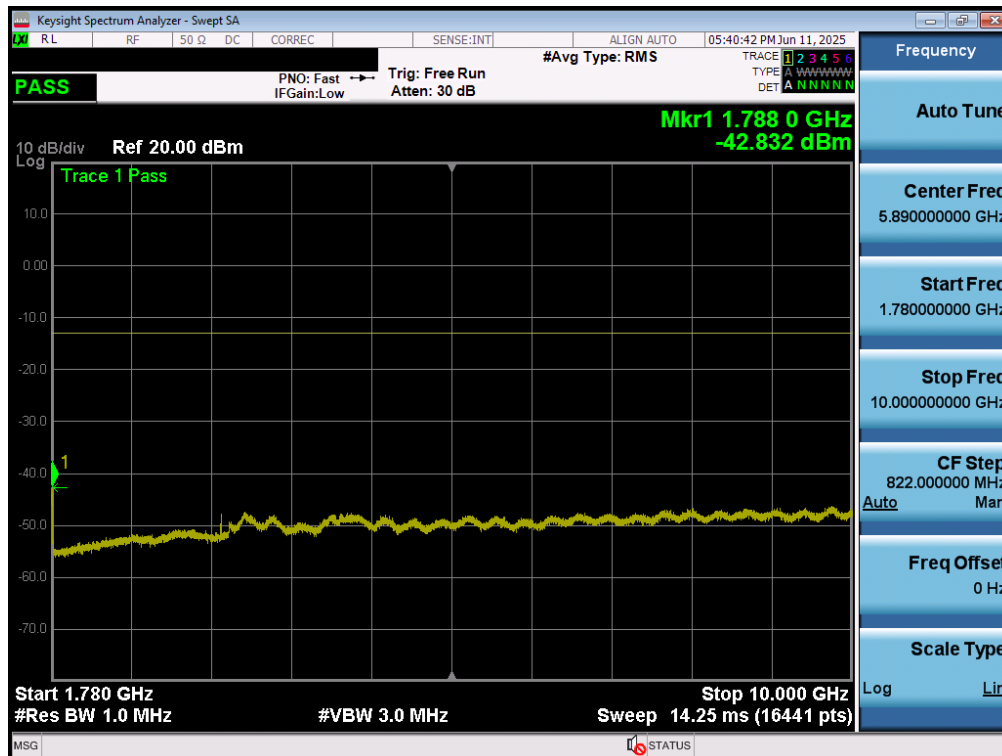
Plot 7-70. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 60 of 125

NR Band n66 – ANT1

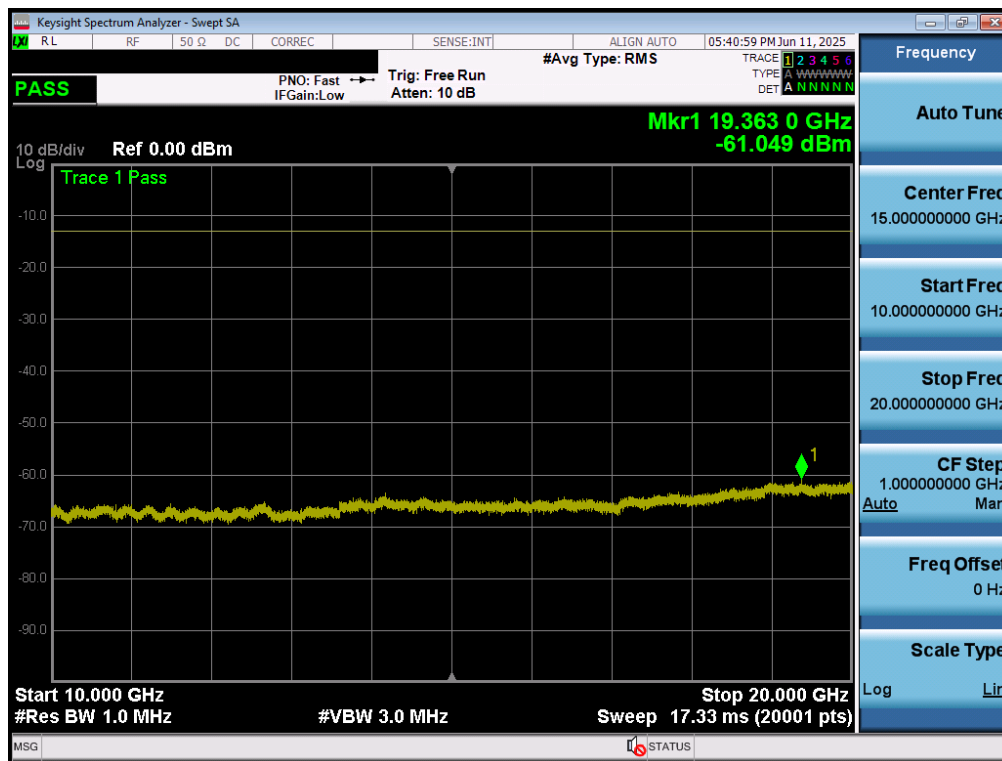


Plot 7-71. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - High Channel - ANT1)



Plot 7-72. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - High Channel - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 61 of 125



Plot 7-73. Conducted Spurious Plot (NR Band n66 - 45.0MHz - 1 RB - High Channel - ANT1)

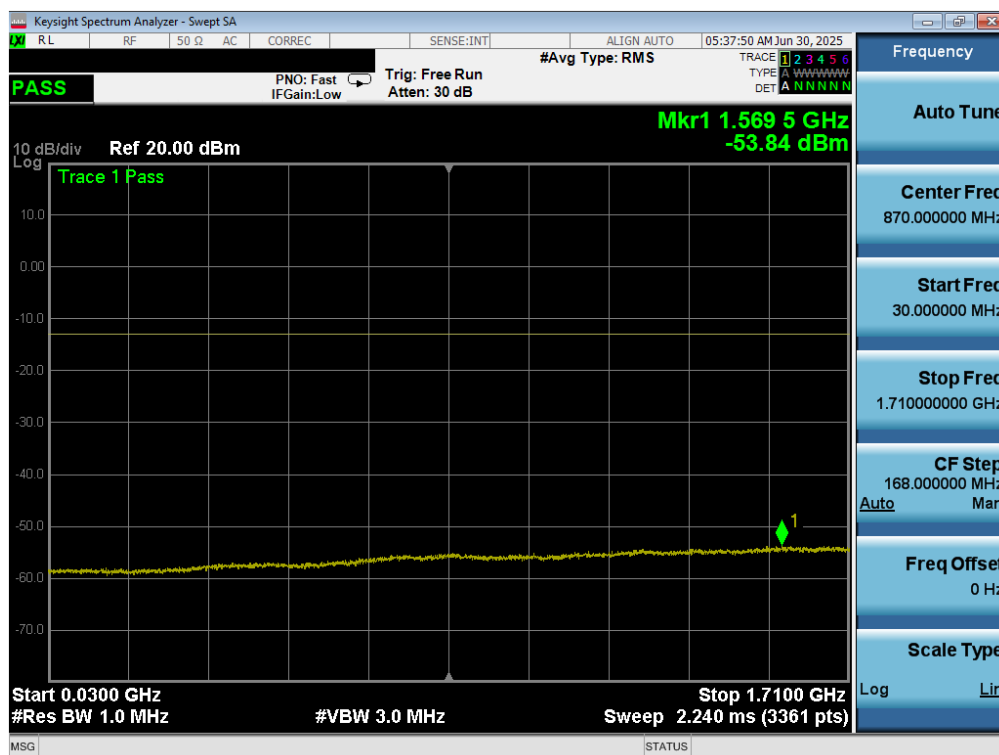
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 62 of 125

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-44.27	-13	-31.27
		Low	698.0 - 1000.0	-48.81	-13	-35.81
		Low	1000.0 - 10000.0	-62.85	-13	-49.85
		Mid	30.0 - 663.0	-53.74	-13	-40.74
		Mid	698.0 - 1000.0	-49.01	-13	-36.01
		Mid	1000.0 - 10000.0	-62.80	-13	-49.80
		High	30.0 - 663.0	-53.84	-13	-40.84
		High	698.0 - 1000.0	-42.83	-13	-29.83
		High	1000.0 - 10000.0	-62.19	-13	-49.19

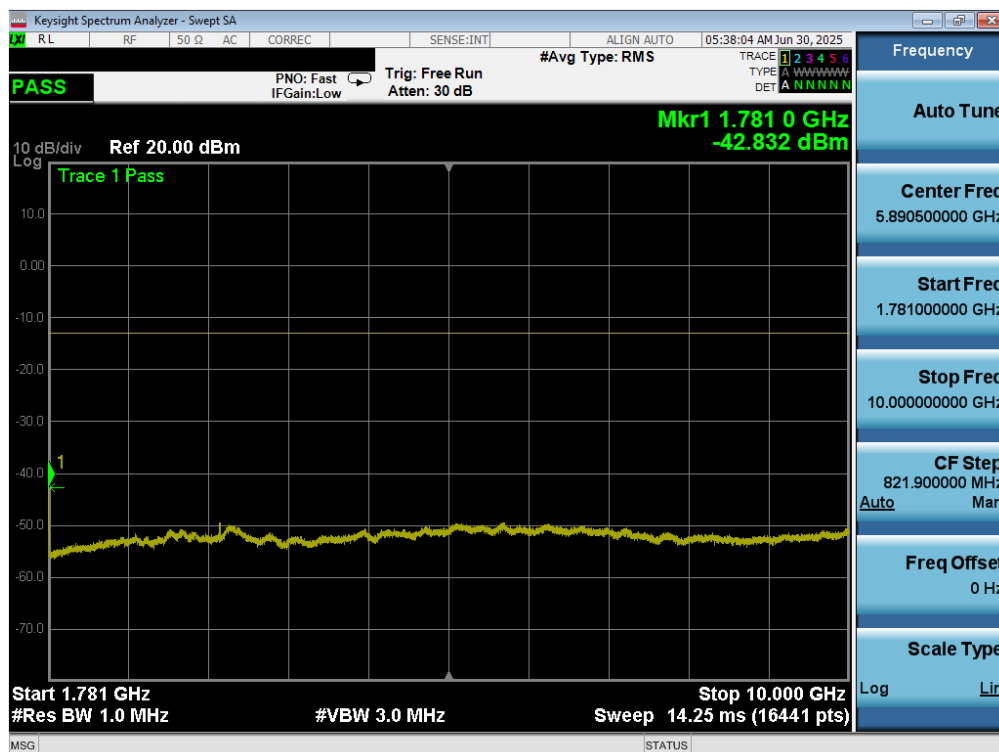
Table 7-8. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 63 of 125

LTE Band 66/4 – ANT2

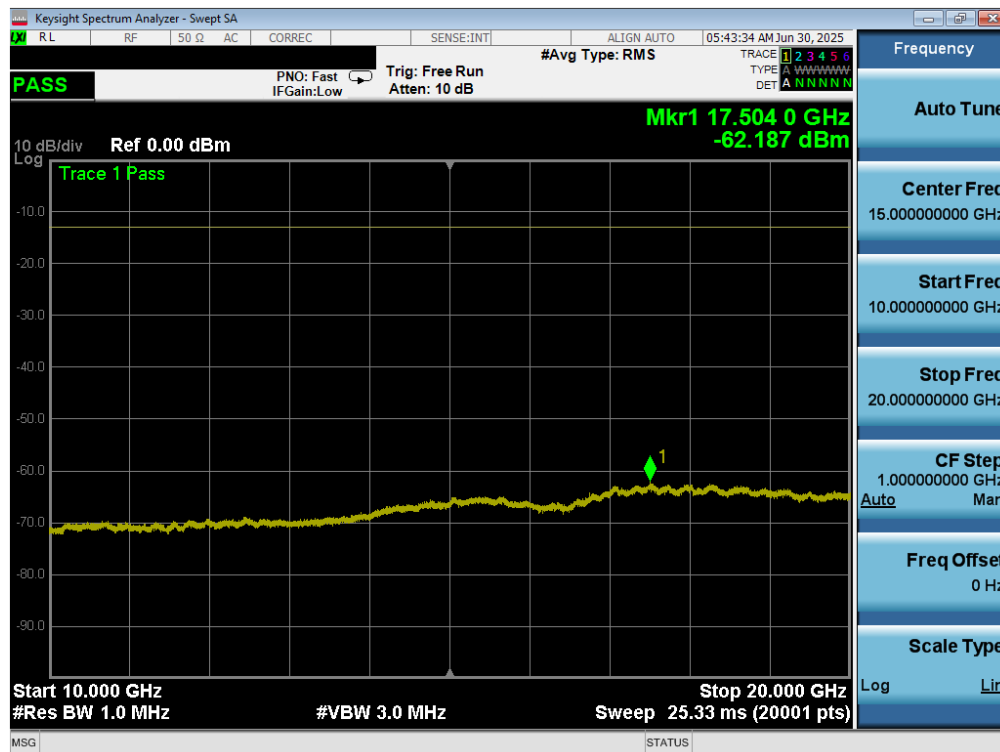


Plot 7-74. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)



Plot 7-75. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 64 of 125



Plot 7-76. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 65 of 125

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 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.

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 5.7.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW $\geq 1\%$ of the emission bandwidth
4. VBW $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

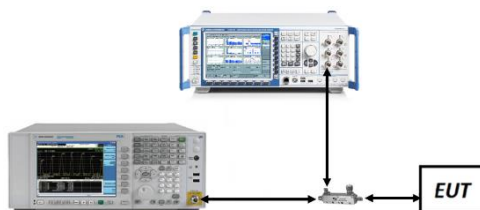


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 66 of 125

Test Notes

1. Per 27.53(h) for AWS band operation, 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.
2. Per 27.53(g) for operations in the 663 - 698 MHz and 698 – 746MHz bands, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
3. Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
4. For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 67 of 125

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	Band Edge	-22.04	-13	-9.04
		Low	Extended	-15.03	-13	-2.03
		High	Band Edge	-23.32	-13	-10.32
		High	Extended	-18.08	-13	-5.08
LTE Band 12/17	10 MHz	Low (B12)	Band Edge	-31.77	-13	-18.77
		Low (B17)	Band Edge	-34.25	-13	-21.25
		High	Band Edge	-34.83	-13	-21.83
	5 MHz	Low (B12)	Band Edge	-26.68	-13	-13.68
		Low (B17)	Band Edge	-26.55	-13	-13.55
		High	Band Edge	-28.27	-13	-15.27
	3 MHz	Low	Band Edge	-22.95	-13	-9.95
		High	Band Edge	-20.81	-13	-7.81
	1.4 MHz	Low	Band Edge	-18.77	-13	-5.77
		High	Band Edge	-18.56	-13	-5.56
LTE Band 13	10 MHz	Low	Band Edge	-29.40	-13	-16.40
		Low	Emission Mask	-41.82	-35	-6.82
		High	Band Edge	-33.20	-13	-20.20
		High	Emission Mask	-48.51	-35	-13.51
	5 MHz	Low	Band Edge	-26.15	-13	-13.15
		Low	Emission Mask	-58.83	-35	-23.83
		High	Band Edge	-26.74	-13	-13.74
		High	Emission Mask	-65.70	-35	-30.70

Table 7-9. Conducted Band Edge Results – Ant1

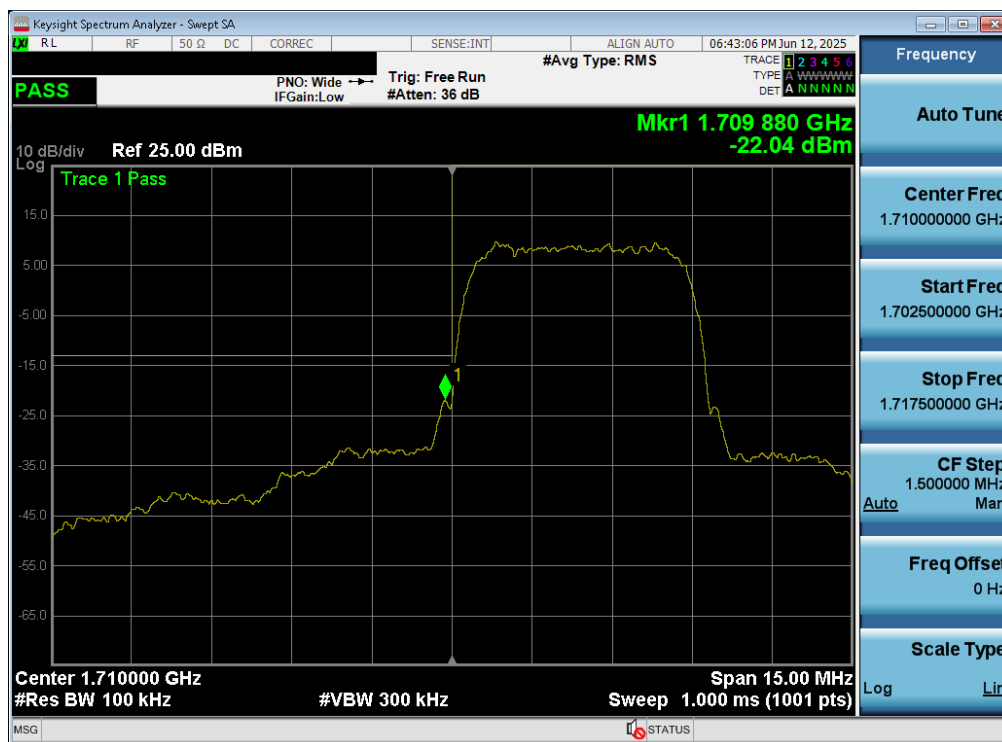
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 68 of 125

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20MHz	Low	Band Edge	-29.52	-13	-16.52
		Low	Extended	-23.25	-13	-10.25
		High (B4)	Band Edge	-30.91	-13	-17.91
		High (B4)	Extended	-25.29	-13	-12.29
		High (B66)	Band Edge	-28.91	-13	-15.91
		High (B66)	Extended	-23.13	-13	-10.13
	15MHz	Low	Band Edge	-29.01	-13	-16.01
		Low	Extended	-22.36	-13	-9.36
		High (B4)	Band Edge	-30.62	-13	-17.62
		High (B4)	Extended	-24.20	-13	-11.20
		High (B66)	Band Edge	-27.89	-13	-14.89
		High (B66)	Extended	-21.02	-13	-8.02
	10MHz	Low	Band Edge	-29.53	-13	-16.53
		Low	Extended	-21.57	-13	-8.57
		High (B4)	Band Edge	-30.78	-13	-17.78
		High (B4)	Extended	-23.05	-13	-10.05
		High (B66)	Band Edge	-27.95	-13	-14.95
		High (B66)	Extended	-19.22	-13	-6.22
	5MHz	Low	Band Edge	-28.34	-13	-15.34
		Low	Extended	-20.34	-13	-7.34
		High (B4)	Band Edge	-29.01	-13	-16.01
		High (B4)	Extended	-21.45	-13	-8.45
		High (B66)	Band Edge	-27.29	-13	-14.29
		High (B66)	Extended	-18.08	-13	-5.08
	3MHz	Low	Band Edge	-29.87	-13	-16.87
		Low	Extended	-21.33	-13	-8.33
		High (B4)	Band Edge	-29.20	-13	-16.20
		High (B4)	Extended	-24.27	-13	-11.27
		High (B66)	Band Edge	-25.88	-13	-12.88
		High (B66)	Extended	-18.52	-13	-5.52
	1.4MHz	Low	Band Edge	-28.95	-13	-15.95
		Low	Extended	-24.99	-13	-11.99
		High (B4)	Band Edge	-28.91	-13	-15.91
		High (B4)	Extended	-24.95	-13	-11.95
		High (B66)	Band Edge	-27.33	-13	-14.33
		High (B66)	Extended	-23.33	-13	-10.33
NR Band n66	40 MHz	Low	Band Edge	-25.60	-13	-12.60
		Low	Extended	-24.13	-13	-11.13
		High	Band Edge	-21.99	-13	-8.99
		High	Extended	-25.54	-13	-12.54
	30 MHz	Low	Band Edge	-25.18	-13	-12.18
		Low	Extended	-24.05	-13	-11.05
		High	Band Edge	-23.55	-13	-10.55
		High	Extended	-22.12	-13	-9.12
	25 MHz	Low	Band Edge	-26.25	-13	-13.25
		Low	Extended	-21.37	-13	-8.37
		High	Band Edge	-26.40	-13	-13.40
		High	Extended	-21.41	-13	-8.41
	20 MHz	Low	Band Edge	-26.17	-13	-13.17
		Low	Extended	-20.82	-13	-7.82
		High	Band Edge	-25.99	-13	-12.99
		High	Extended	-23.51	-13	-10.51
	15 MHz	Low	Band Edge	-26.80	-13	-13.80
		Low	Extended	-19.04	-13	-6.04
		High	Band Edge	-28.23	-13	-15.23
		High	Extended	-19.66	-13	-6.66
	10 MHz	Low	Band Edge	-25.86	-13	-12.86
		Low	Extended	-15.95	-13	-2.95
		High	Band Edge	-25.87	-13	-12.87
		High	Extended	-17.29	-13	-4.29
	5 MHz	Low	Band Edge	-25.75	-13	-12.75
		Low	Extended	-19.70	-13	-6.70
		High	Band Edge	-24.36	-13	-11.36
		High	Extended	-17.50	-13	-4.50

Table 7-10. Conducted Band Edge Results – Ant1

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 69 of 125

WCDMA AWS – ANT1



Plot 7-77. Lower Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT1)

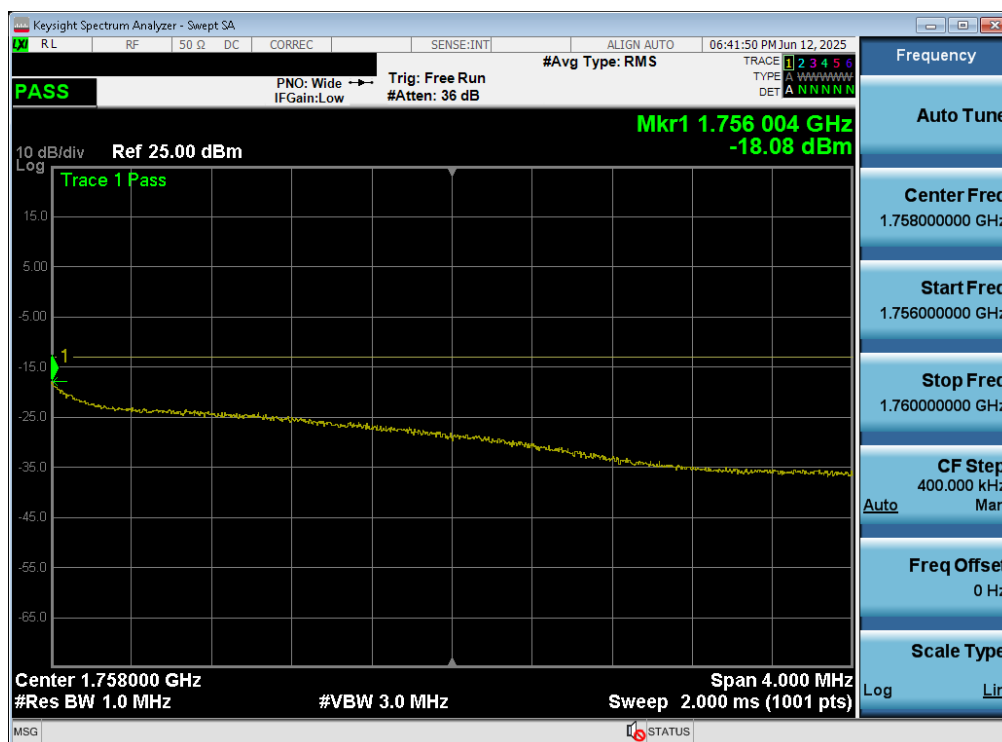


Plot 7-78. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 70 of 125



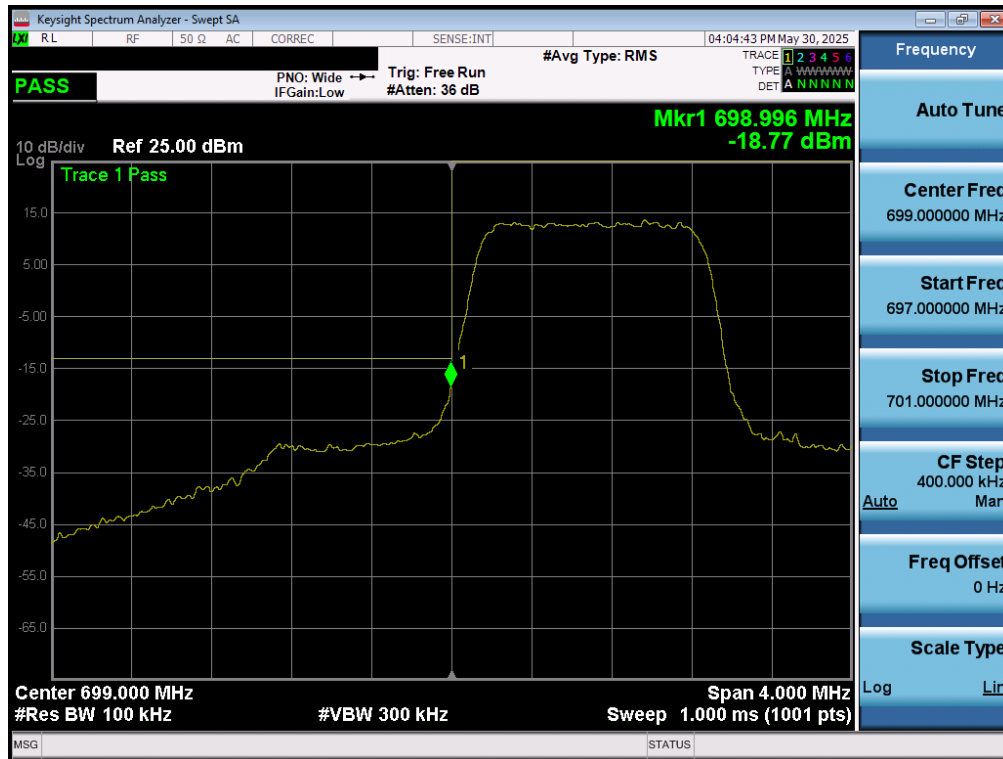
Plot 7-79. Upper Band Edge Plot (WCDMA AWS – Ch. 1513 – ANT1)



Plot 7-80. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513– ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 71 of 125

LTE Band 12/17 – ANT1



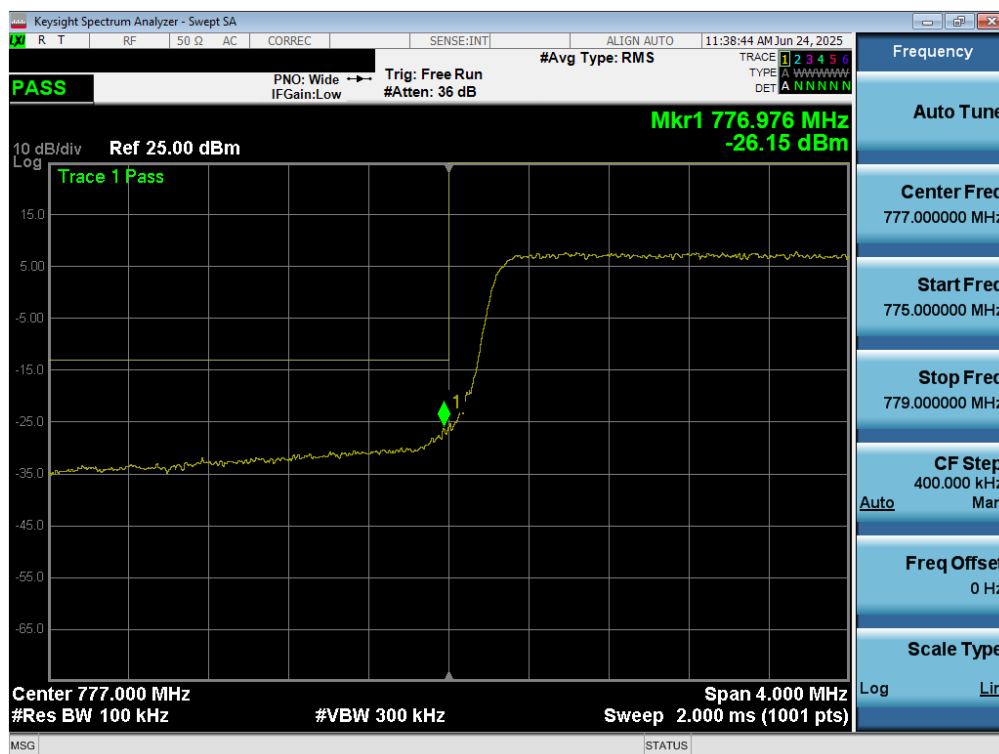
Plot 7-81. Lower Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB - ANT1)



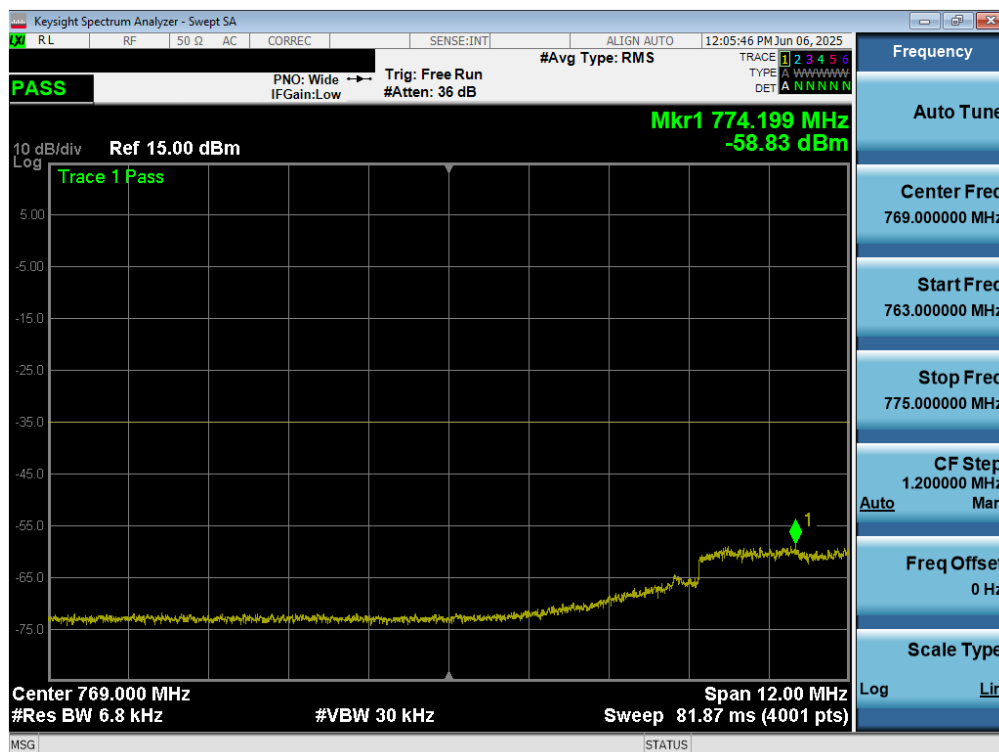
Plot 7-82. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 72 of 125

LTE Band 13 – ANT1

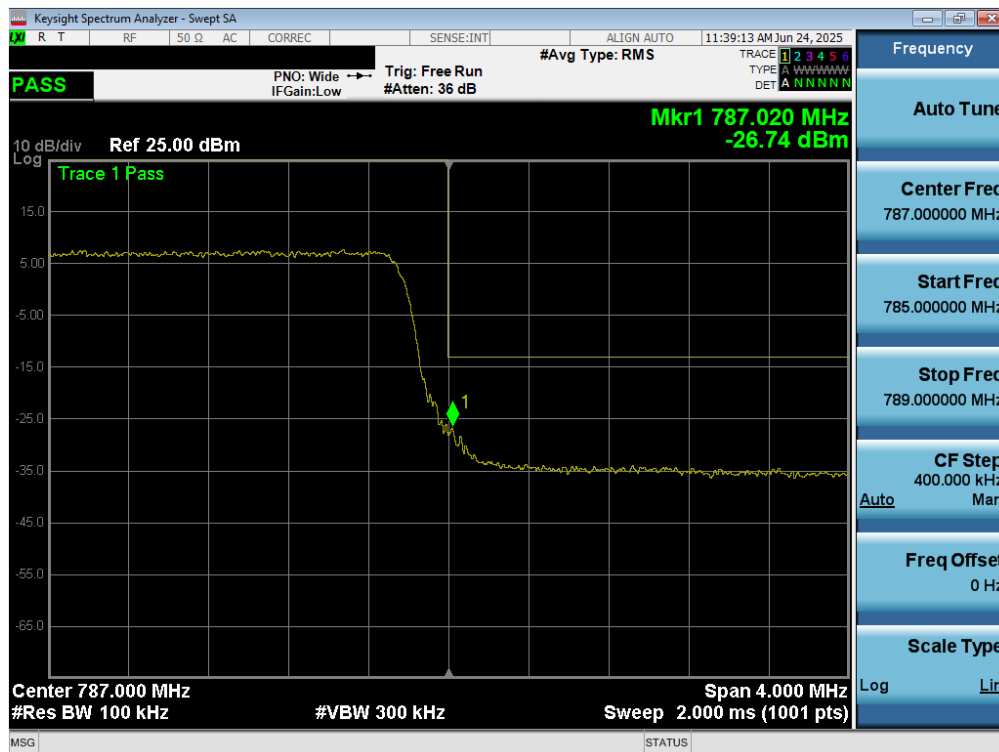


Plot 7-83. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)



Plot 7-84. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 73 of 125



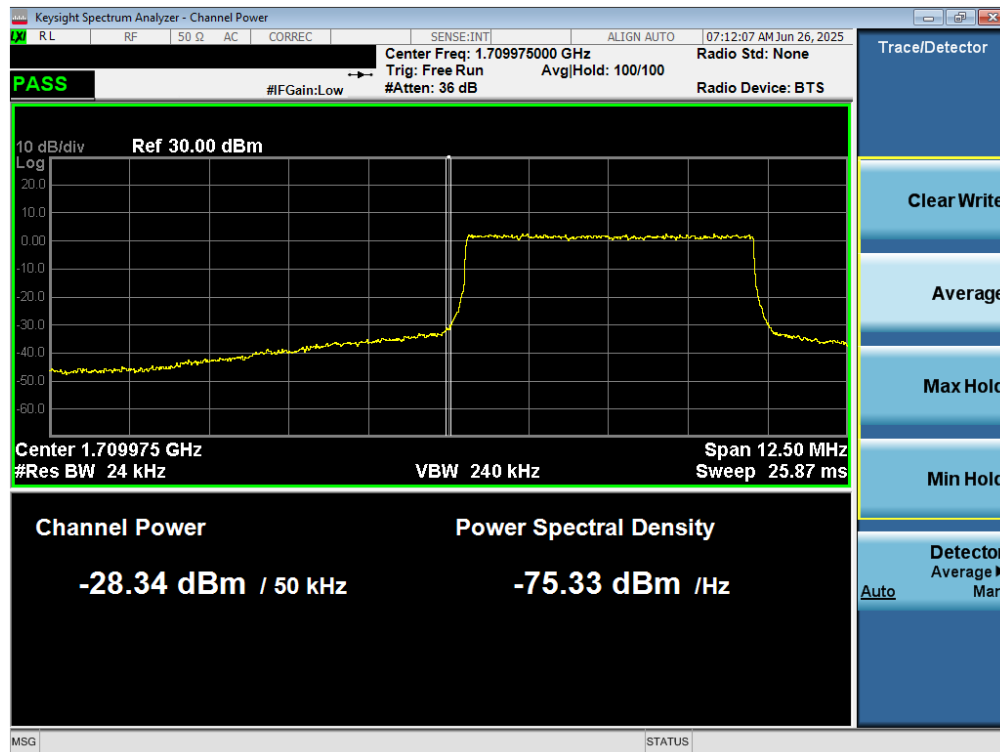
Plot 7-85. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)



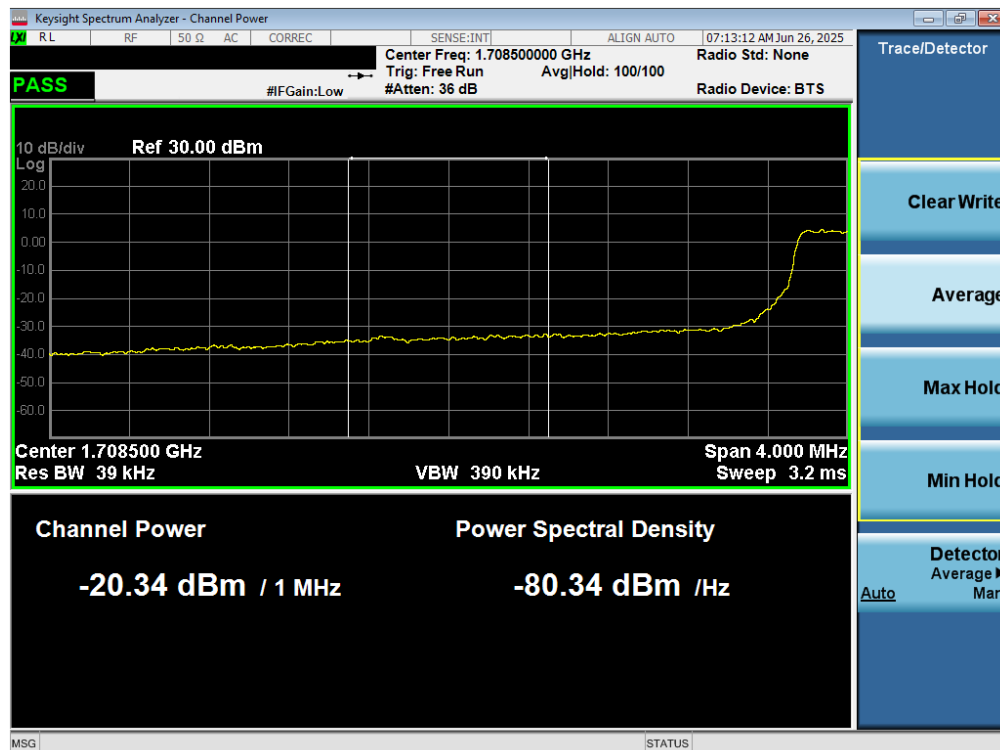
Plot 7-86. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 74 of 125

LTE Band 66/4 – ANT1

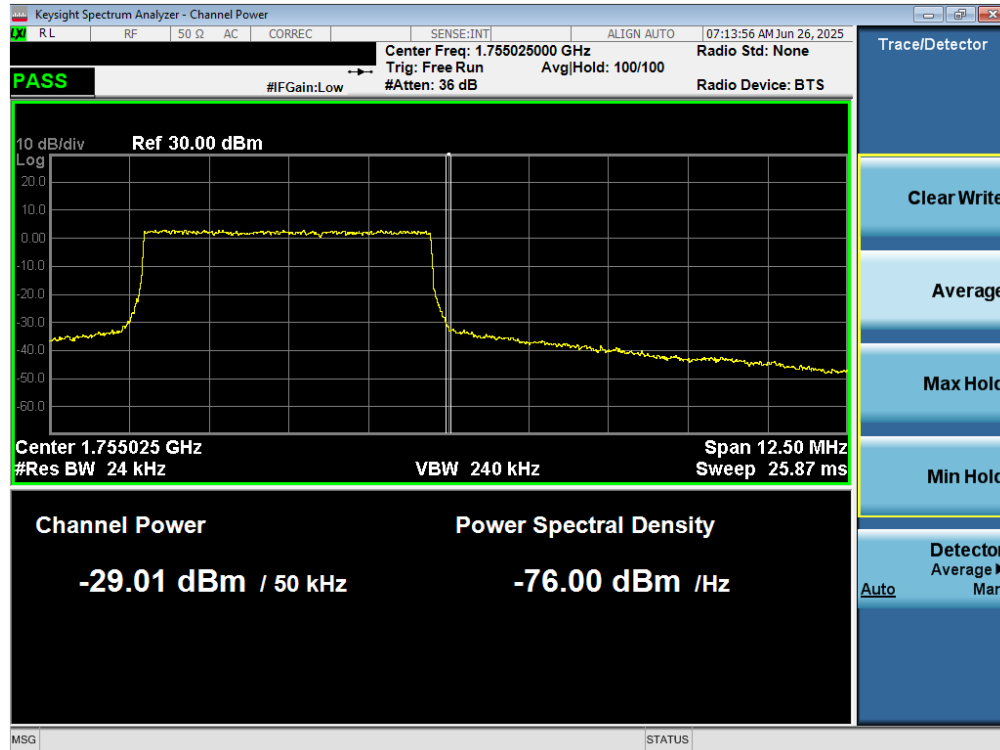


Plot 7-87. Lower Band Edge Plot (LTE Band 66/4 – 5MHz QPSK – Full RB - ANT1)

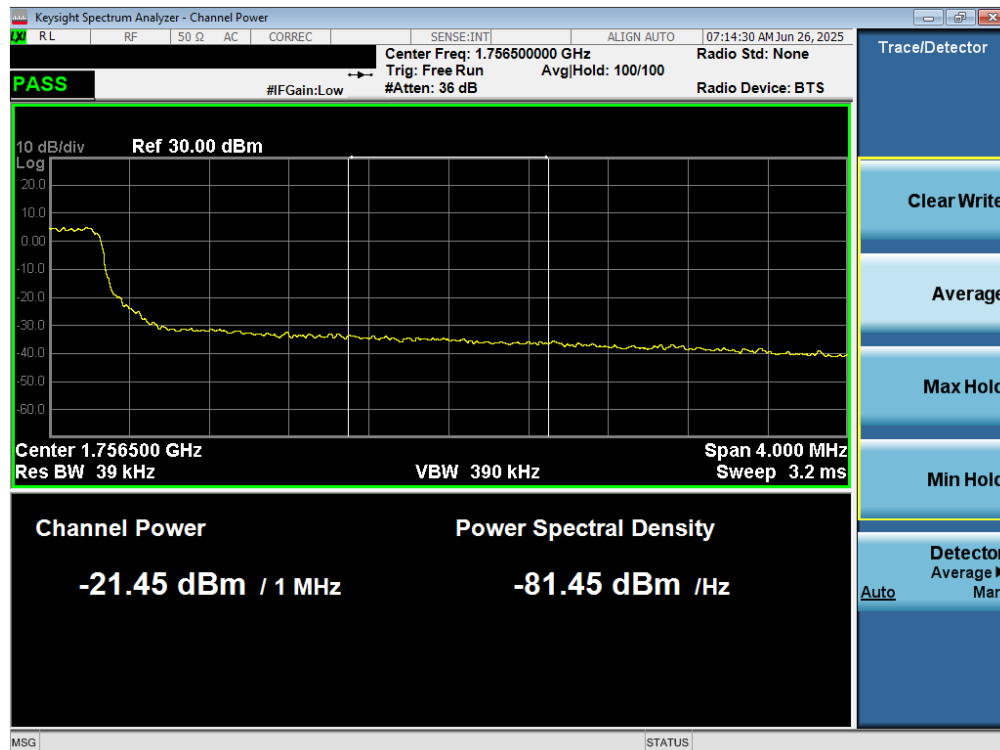


Plot 7-88. Lower Extended Band Edge Plot (LTE Band 66/4 – 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 75 of 125

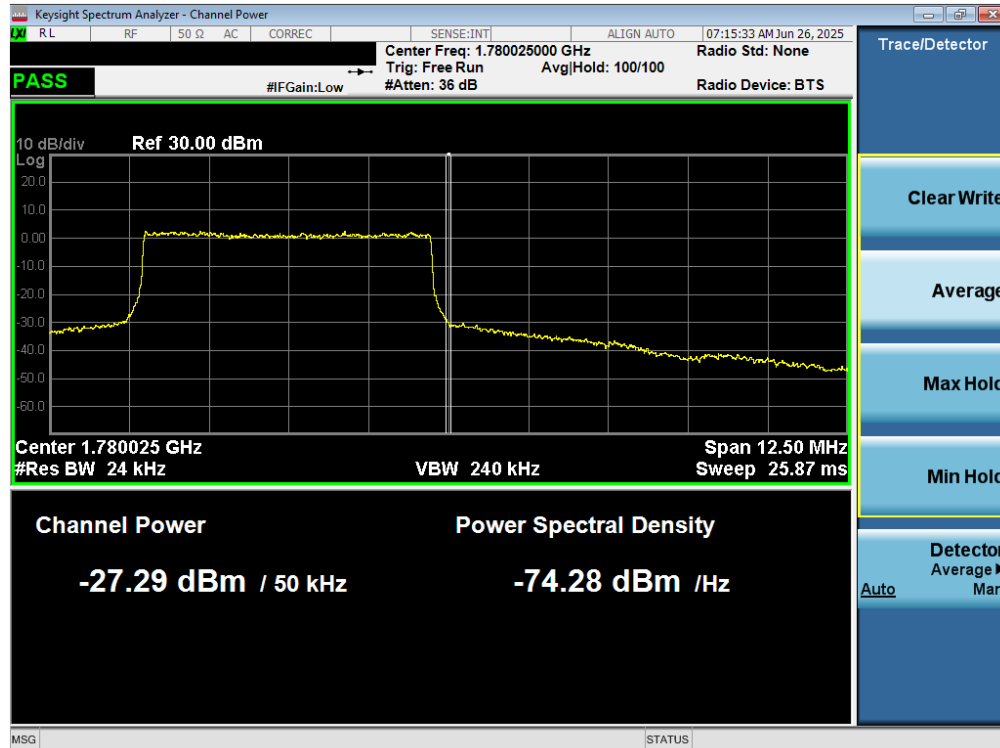


Plot 7-89. Upper Band Edge Plot (LTE Band 4 – 5MHz QPSK – Full RB - ANT1)

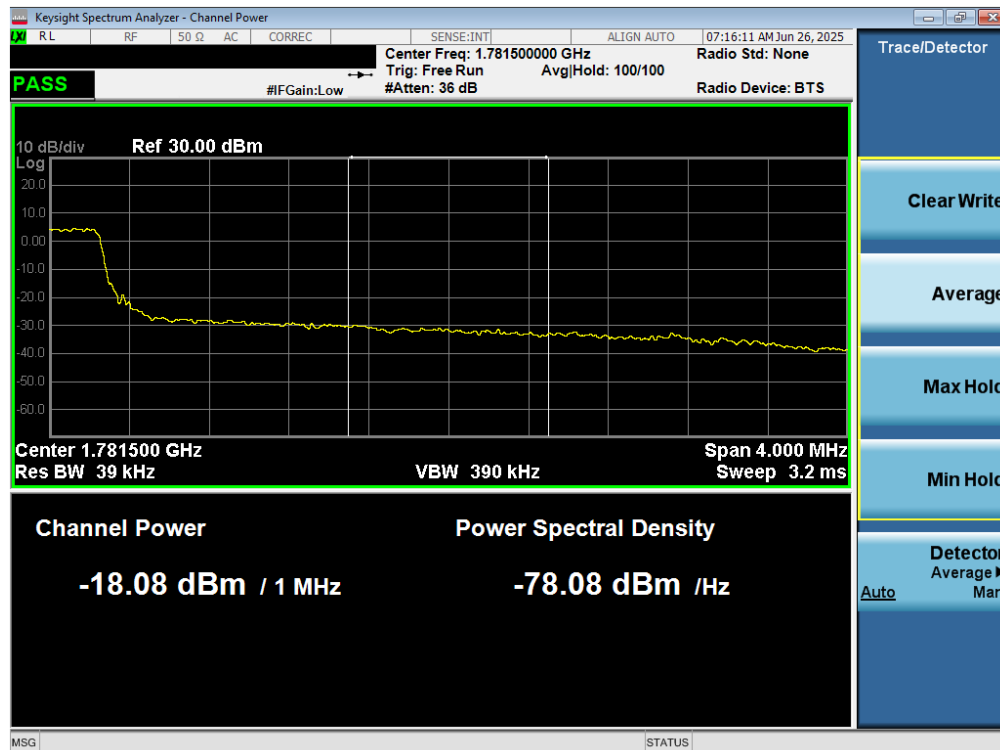


Plot 7-90. Upper Extended Band Edge Plot (LTE Band 4 – 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 76 of 125



Plot 7-91. Upper Band Edge Plot (LTE Band 66 – 5MHz QPSK – Full RB - ANT1)



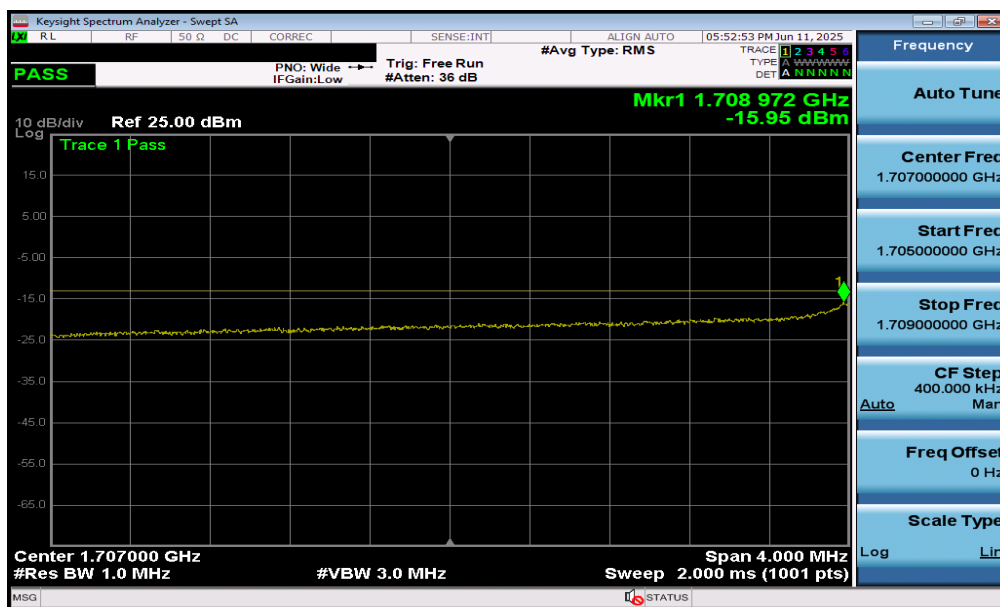
Plot 7-92. Upper Extended Band Edge Plot (LTE Band 66 – 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 77 of 125

NR Band n66 – ANT1



Plot 7-93. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

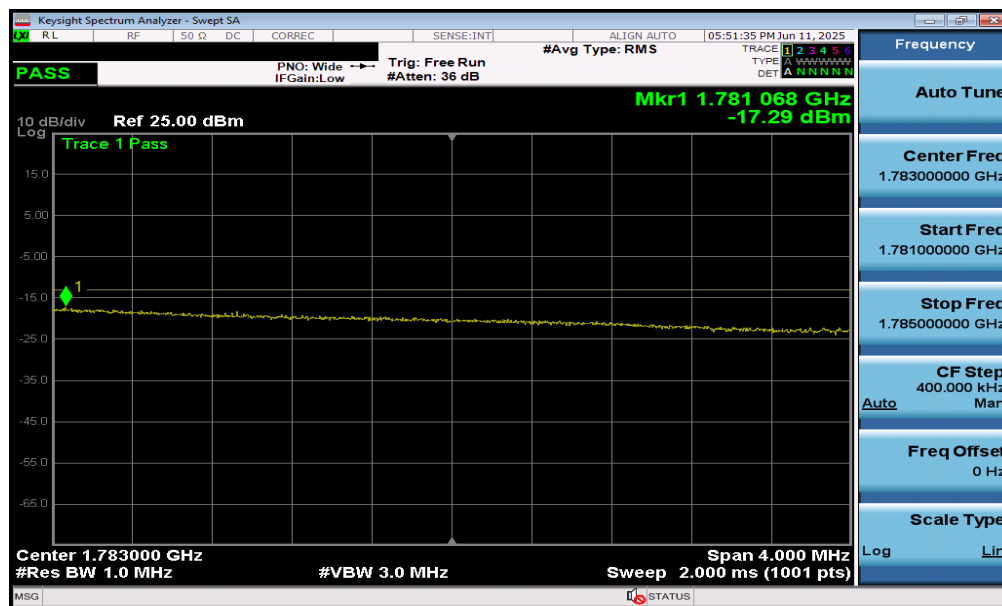


Plot 7-94. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 78 of 125



Plot 7-95. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)



Plot 7-96. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

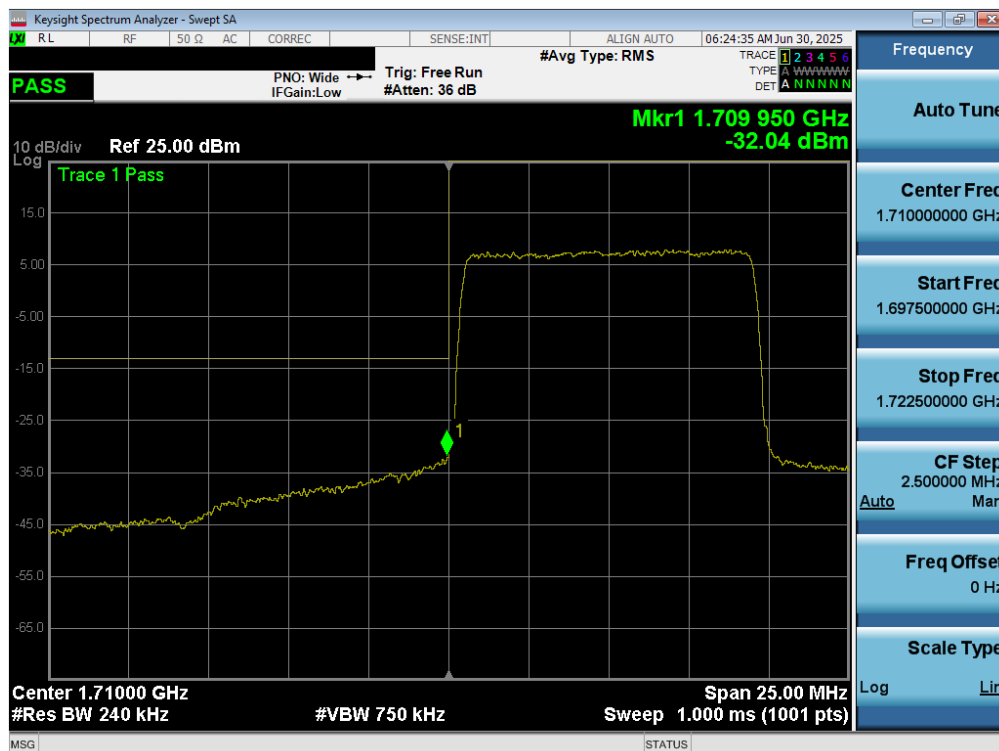
FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 79 of 125

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20MHz	Low	Band Edge	-31.80	-13	-18.80
		Low	Extended	-29.73	-13	-16.73
		High (B4)	Band Edge	-32.87	-13	-19.87
		High (B4)	Extended	-30.63	-13	-17.63
		High (B66)	Band Edge	-30.48	-13	-17.48
		High (B66)	Extended	-27.79	-13	-14.79
	15MHz	Low	Band Edge	-31.10	-13	-18.10
		Low	Extended	-28.76	-13	-15.76
		High (B4)	Band Edge	-32.24	-13	-19.24
		High (B4)	Extended	-30.46	-13	-17.46
		High (B66)	Band Edge	-30.34	-13	-17.34
		High (B66)	Extended	-28.43	-13	-15.43
	10MHz	Low	Band Edge	-32.04	-13	-19.04
		Low	Extended	-25.50	-13	-12.50
		High (B4)	Band Edge	-32.08	-13	-19.08
		High (B4)	Extended	-25.43	-13	-12.43
		High (B66)	Band Edge	-30.48	-13	-17.48
		High (B66)	Extended	-24.11	-13	-11.11
	5MHz	Low	Band Edge	-28.03	-13	-15.03
		Low	Extended	-27.44	-13	-14.44
		High (B4)	Band Edge	-26.10	-13	-13.10
		High (B4)	Extended	-30.74	-13	-17.74
		High (B66)	Band Edge	-27.30	-13	-14.30
		High (B66)	Extended	-24.29	-13	-11.29
	3MHz	Low	Band Edge	-26.80	-13	-13.80
		Low	Extended	-25.58	-13	-12.58
		High (B4)	Band Edge	-26.90	-13	-13.90
		High (B4)	Extended	-28.56	-13	-15.56
		High (B66)	Band Edge	-25.35	-13	-12.35
		High (B66)	Extended	-25.02	-13	-12.02
	1.4MHz	Low	Band Edge	-27.00	-13	-14.00
		Low	Extended	-29.46	-13	-16.46
		High (B4)	Band Edge	-29.28	-13	-16.28
		High (B4)	Extended	-28.92	-13	-15.92
		High (B66)	Band Edge	-28.04	-13	-15.04
		High (B66)	Extended	-26.47	-13	-13.47

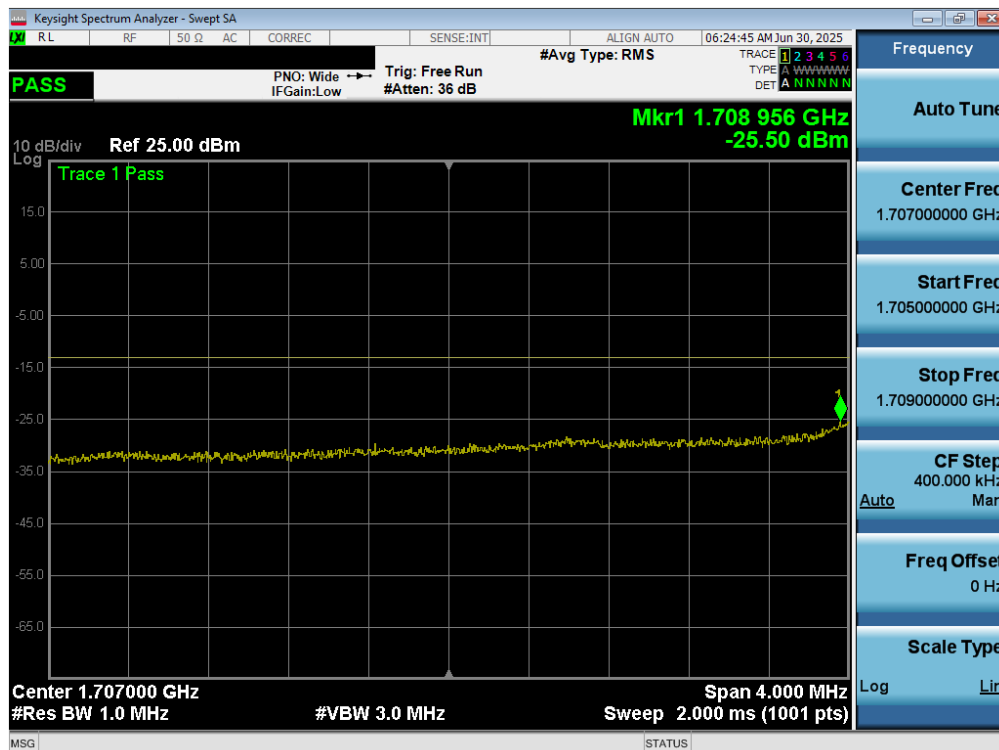
Table 7-11. Conducted Band Edge Results – Ant2

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 80 of 125

LTE Band 66/4 – ANT2



Plot 7-97. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - ANT2)

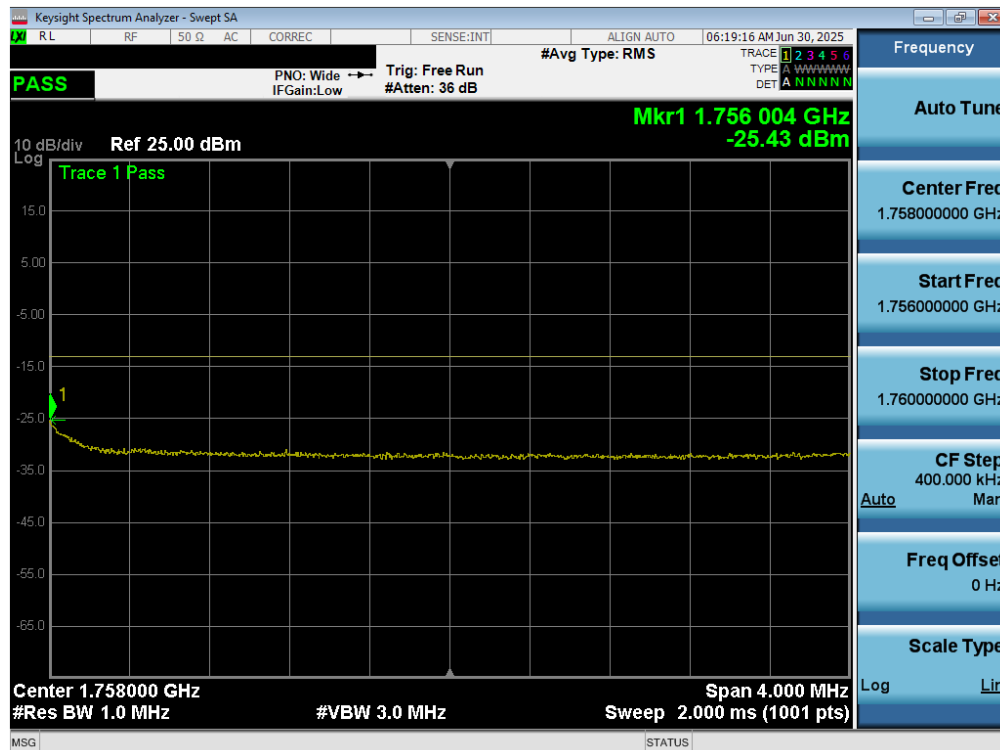


Plot 7-98. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 81 of 125



Plot 7-99. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT2)



Plot 7-100. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 82 of 125



Plot 7-101. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - ANT2)



Plot 7-102. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMX736B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2505130050-03.A3L	Test Dates: 6/3 - 7/21/2025	EUT Type: Portable Tablet	Page 83 of 125