



## PART 90 MEASUREMENT REPORT

**Applicant Name:**

Apple Inc.  
One Apple Park Way  
Cupertino, CA 95014  
United States

**Date of Testing:**

03/31/2025 - 07/17/2025

**Test Report Issue Date:**

7/21/2025

**Test Site/Location:**

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2503270036-05.BCG

**FCC ID:****BCG-A3326****Applicant Name:****Apple Inc.****Application Type:**

Certification

**Model:**

A3326, A3327

**EUT Type:**

Watch

**FCC Classification:**

PCS Licensed Transmitter Worn on Body (PCT)

**FCC Rule Part:**

§2.1049, §90(S), §90(R)

**Test Procedure(s):**

ANSI C63.26-2015, TIA-603-E-2016, KDB 971168

D01 v03r01

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: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 1 of 96

V2.2 09/07/2023

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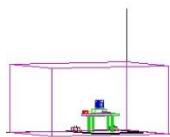
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## T A B L E   O F   C O N T E N T S

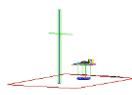
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1.0	INTRODUCTION .....	4
1.1	Scope .....	4
1.2	Element Materials Technology Test Location.....	4
1.3	Test Facility / Accreditations.....	4
2.0	PRODUCT INFORMATION.....	5
2.1	Equipment Description .....	5
2.2	Device Capabilities.....	5
2.3	Antenna Description .....	6
2.4	Test Support Equipment.....	6
2.5	Test Configuration .....	7
2.6	Software and Firmware .....	7
2.7	EMI Suppression Device(s)/Modifications .....	7
3.0	DESCRIPTION OF TESTS .....	8
3.1	Evaluation Procedure .....	8
3.2	Radiated Spurious Emissions .....	8
4.0	MEASUREMENT UNCERTAINTY .....	9
5.0	TEST EQUIPMENT CALIBRATION DATA .....	10
6.0	SAMPLE CALCULATIONS .....	11
7.0	TEST RESULTS.....	12
7.1	Summary.....	12
7.2	Occupied Bandwidth .....	14
7.3	Spurious and Harmonic Emissions at Antenna Terminal .....	30
7.4	Band Edge Emissions at Antenna Terminal .....	52
7.5	Conducted Power Output Data .....	74
7.6	Radiated Power (ERP).....	76
7.7	Radiated Spurious Emissions .....	79
7.8	Frequency Stability / Temperature Variation .....	90
8.0	CONCLUSION.....	96

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 2 of 96



## PART 90 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	OBW [MHz]	Max. Power [mW]	Max. Power [dBm]	Emission Designator
LTE Band 26	1.4 MHz	QPSK	814.7 - 823.3	Conducted	1.0890	370.681	25.69	1M09G7W
		16QAM	814.7 - 823.3	Conducted	1.0972	285.102	24.55	1M10D7W
	3 MHz	QPSK	815.5 - 822.5	Conducted	2.7179	360.579	25.57	2M72G7W
		16QAM	815.5 - 822.5	Conducted	2.7046	287.740	24.59	2M70D7W
	5 MHz	QPSK	816.5 - 821.5	Conducted	4.5142	366.438	25.64	4M51G7W
		16QAM	816.5 - 821.5	Conducted	4.5105	286.418	24.57	4M51D7W
	10 MHz	QPSK	819.0	Conducted	9.0262	369.828	25.68	9M03G7W
		16QAM	819.0	Conducted	5.0879	277.971	24.44	5M09D7W
LTE Band 14	5 MHz	QPSK	790.5 - 795.5	ERP	4.5462	0.543	-2.65	4M55G7W
		16QAM	790.5 - 795.5	ERP	4.5207	0.492	-3.08	4M52D7W
	10 MHz	QPSK	793.0	ERP	9.0155	0.535	-2.72	9M02G7W
		16QAM	793.0	ERP	5.0942	0.423	-3.74	5M09D7W
NR Band n26	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	4.4878	364.754	25.62	4M49G7W
		QPSK	816.5 - 821.5	Conducted	4.4571	371.535	25.70	4M46G7W
		16QAM	816.5 - 821.5	Conducted	4.4941	291.743	24.65	4M49D7W
		64QAM	816.5 - 821.5	Conducted	4.4657	232.809	23.67	4M47D7W
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	8.9843	355.631	25.51	8M98G7W
		QPSK	819.0	Conducted	9.2882	362.243	25.59	9M29G7W
		16QAM	819.0	Conducted	9.2932	294.442	24.69	9M29D7W
		64QAM	819.0	Conducted	9.3156	225.424	23.53	9M32D7W
NR Band n14	5 MHz	$\pi/2$ BPSK	790.5 - 795.5	ERP	4.4808	0.533	-2.73	4M48G7W
		QPSK	790.5 - 795.5	ERP	4.4594	0.543	-2.65	4M46G7W
		16QAM	790.5 - 795.5	ERP	4.4363	0.431	-3.66	4M44D7W
		64QAM	790.5 - 795.5	ERP	4.4744	0.340	-4.69	4M47D7W
	10 MHz	$\pi/2$ BPSK	793.0	ERP	8.9871	0.540	-2.68	8M99G7W
		QPSK	793.0	ERP	9.2876	0.521	-2.83	9M29G7W
		16QAM	793.0	ERP	9.2944	0.411	-3.86	9M29D7W
		64QAM	793.0	ERP	9.3084	0.330	-4.82	9M31D7W

### EUT Overview

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch			

V2.2 09/07/2023

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Page 3 of 96

## 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 Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

### 1.3 Test Facility / Accreditations

**Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.**

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 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 Materials Technology facility is a registered (22831) 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 Agreements (MRAs).

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 4 of 96

## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A3326**. 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.

**Test Device Serial No.:** MF7K9LJ6VK, M16N6GJ25G, CP2N1WXM76, MR2NY2MWRD, FN6HFV000XA0000Y2G

### 2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE, 5G NR (FR1), 802.11b/g/n WLAN, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC.

This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Simultaneous Tx Config	Antenna FCM		
	WLAN	Bluetooth	LTE/FR1
	802.11b/g/n	BDR, EDR, HDR4/8, LE12M	Mid/High Band
Config 1	✓	✗	✓
Config 2	✗	✓	✓

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

**Note:**

All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 2 and reported in RF Bluetooth and RF FCC Part 27b test reports.

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 5 of 96

## 2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

Band	Antenna Gain [dBi]
	BCM
LTE Band 26/5	-26.2
NR Band n26/n5	

**Table 2-2. Highest Antenna Gain**

## 2.4 Test Support Equipment

Test Support Equipment					
1	Apple Macbook w/AC/DC Adapter	Model: A1398 Model: A1435		S/N: FVFDHG8TP3XY S/N: N/A	
2	Apple USB-C cable w/ Charging Dock w/ Cradle	Model: N/A Model: N/A Model: N/A		S/N: N/A S/N: SAA24DEN24xP2444600752 S/N: SAA24ETN24xP1429700454	
3	Apple Magnetic Charger Apple Magnetic Charger	Model: A2515 Model: A2879		S/N: DLC313306ZQ1NR1A7 S/N: DLCH5T0012A00000WB	
4	Pathfinder Davenport SiP Socket	Model: 920-15901-01 Model: P1 N24X S PF 235		S/N: DLCH64000270000QA0 S/N: DLCH6B000BY0000UR6	
5	DC Power Supply	Model: SPS3010		S/N: N/A	

**Table 2-3. Test Support Equipment**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 6 of 96

## 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26 2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

The worst case configuration was investigated for the various types of wristbands, metal and non-metal wristbands. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

This device only supports 27RBs or less for LTE 16-QAM uplink.

## 2.6 Software and Firmware

The test was conducted with firmware version watchOS 26 installed on the EUT.

## 2.7 EMI Suppression Device(s)/Modifications

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

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 7 of 96

## 3.0 DESCRIPTION OF TESTS

### 3.1 Evaluation Procedure

The measurement procedures described in the documents titled “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015 and TIA-603-E-2016) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

**Deviation from Measurement Procedure.....**None

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

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

And

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

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015 and TIA-603-E-2016.

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 8 of 96

## 4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. 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	2.07
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz-1GHz)	4.85
Radiated Disturbance (1-18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

FCC ID: BCG-A3326	 element		
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Approved by: Technical Manager

## 5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-26.5GHz PXA Signal Analyzer	10/31/2024	Annual	10/31/2025	MY55330128
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	240109
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted Cable *	6/17/2025	Annual	6/17/2026	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/17/2025	Annual	6/17/2026	1946
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
MCL	BW-K10-2W44+	Attenuator *	6/17/2025	Annual	6/17/2026	-
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/20/2025	Annual	5/20/2026	101619
Rohde & Schwarz	FSW67	Signal and Spectrum Analyzer (2Hz-67GHz)	1/7/2025	Annual	1/7/2026	101366
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/10/2024	Annual	12/10/2025	161616
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/4/2025	Annual	3/4/2026	164715
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/26/2025	Annual	6/26/2026	100519
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	358

**Table 5-1. Test Equipment List**

**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. \* denotes passive equipment that has been internally verified/calibrated.

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch			

V2.2 09/07/2023

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Page 10 of 96

## 6.0 SAMPLE CALCULATIONS

### Emission Designator

#### $\pi/2$ BPSK / QPSK Modulation

**Emission Designator = 8M62G7W**

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

#### QAM Modulation

**Emission Designator = 8M45D7W**

BW = 8.45 MHz

D = Amplitude/Angle Modulated

7 = Quantized/Digital Info

W = Combination of Any

### Spurious Radiated Emission

#### **Example: Spurious emission at 3700.40 MHz**

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

FCC ID: BCG-A3326	 element			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch			Page 11 of 96

## 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.  
 FCC ID: BCG-A3326  
 FCC Classification: PCS Licensed Transmitter Worn on Body (PCT)  
 Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	<span style="border: 1px solid blue; padding: 2px;">N/A</span>	Section 7.2
	Conducted Band Edge / Spurious Emissions (LTE Band 14)	2.1051, 90.543(e), 90.543(f)	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.	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (NR Band n14)		On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, attenuation by at least $43 + 10 \log(P)$ dB		
	Conducted Band Edge / Spurious Emissions (LTE Band 26)	2.1051, 90.691(a)	-13 dBm for all out-of-band emissions except -30 dBm at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Sections 7.3, 7.4
	Frequency Stability (LTE Band 14)	2.1055	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested.	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.8
	Frequency Stability (LTE Band 26)	90.213	< 2.5 ppm	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.8
	Conducted Power	2.1046, 90.635	< 100 Watts	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.5
	Effective Radiated Power (LTE Band 14)	90.542(a)(7)	< 3 Watts max. ERP	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.6
	Effective Radiated Power (NR Band n14)			<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.6
RADIATED	Effective Radiated Power (LTE Band 26)	22.913(a)(5)	< 7 Watts max. ERP	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.6
	Radiated Spurious Emissions (LTE Band 14)	2.1053, 90.543(e), 90.543(f)	> $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions except emissions in the 1559 - 1610 MHz band are subject to a limit of -40 dBm/MHz for wideband signals	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.7
	Radiated Spurious Emissions (NR Band n14)			<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.7
	Radiated Spurious Emissions (LTE Band 26)	2.1053, 90.691(a)	-13 dBm for all out-of-band emissions except -30 dBm at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	<span style="border: 1px solid blue; padding: 2px;">PASS</span>	Section 7.7

**Table 7-1. Summary of Test Results**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 12 of 96

**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. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is Element EMC Software Tool EMC Software Tool v1.1.
5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 13 of 96

## 7.2 Occupied Bandwidth

§2.1049

### 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 and all ports were investigated and the worst case configuration results are reported in this section.

### Test Procedure Used

KDB 971168 D01 v03r01 – Section 4.2

### 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 x 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

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 14 of 96

### Test Setup

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

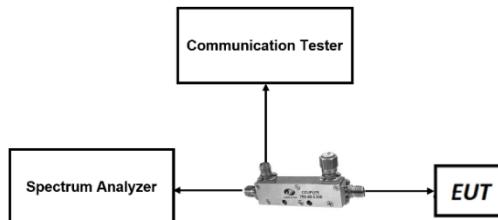


Figure 7-1. LTE Test Instrument & Measurement Setup

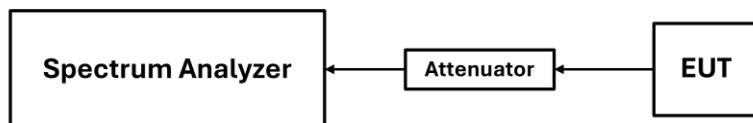


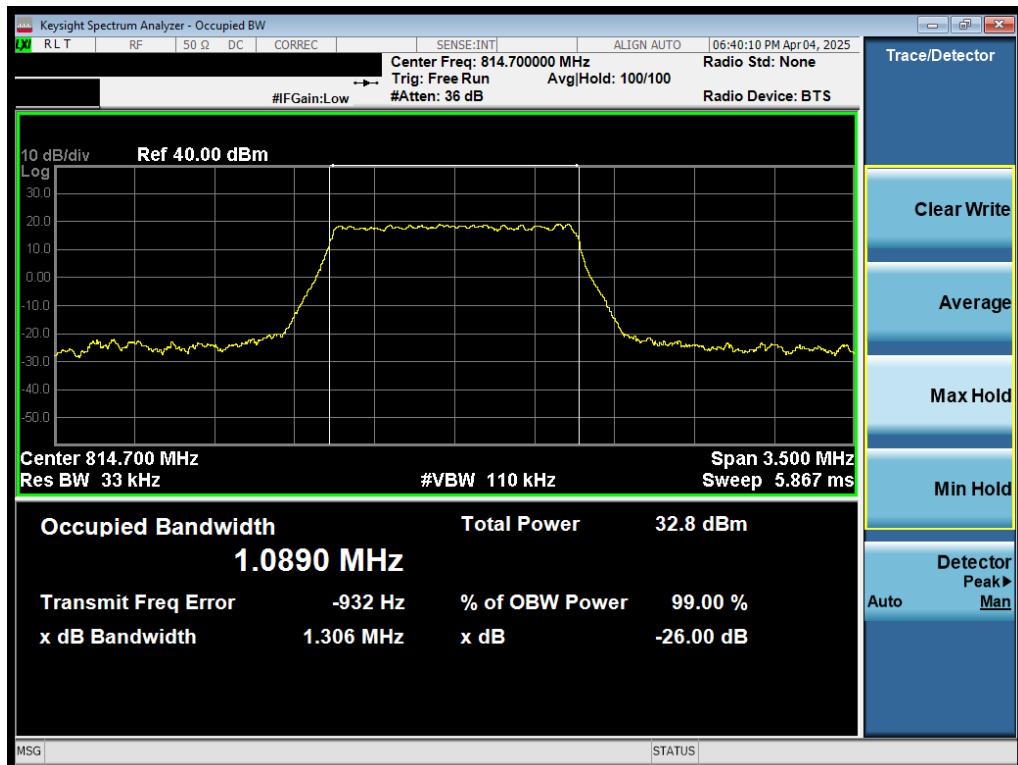
Figure 7-2. FR1 Test Instrument & Measurement Setup

### Test Notes

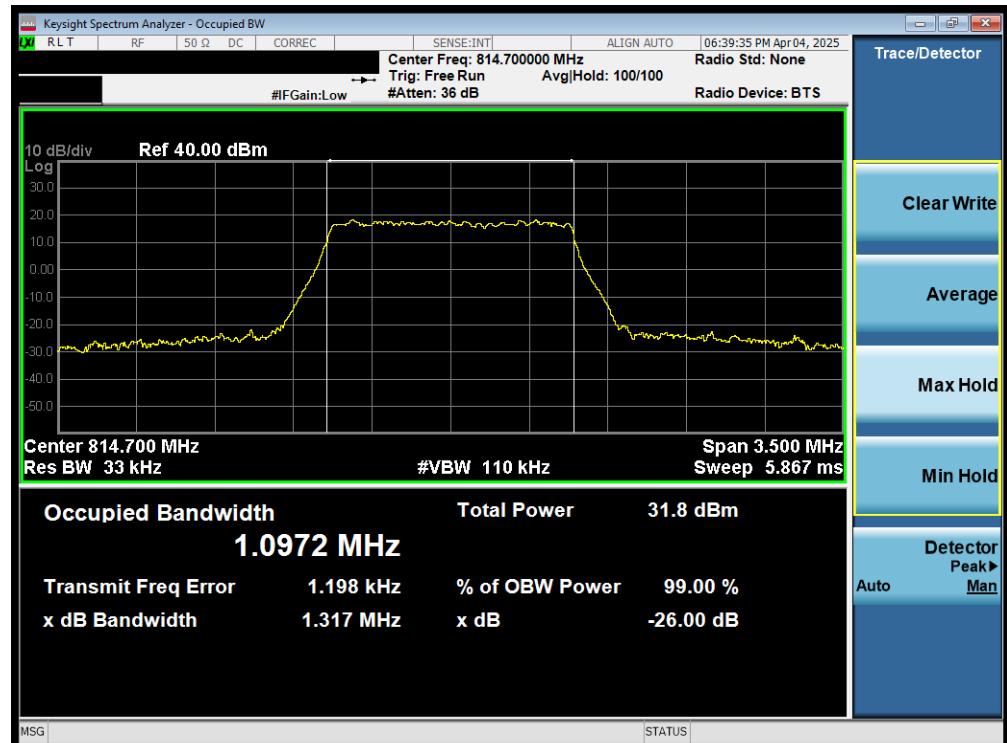
None.

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 15 of 96

## LTE Band 26

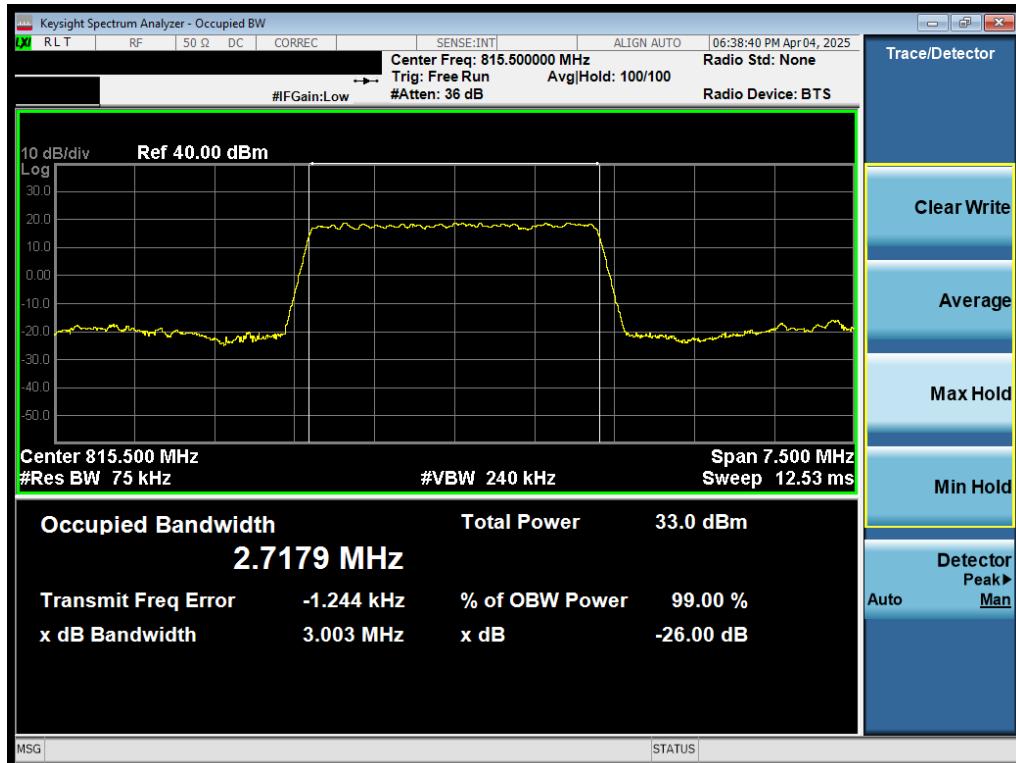


Plot 7-1. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 16 of 96



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



Plot 7-4. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3326	element		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 17 of 96



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

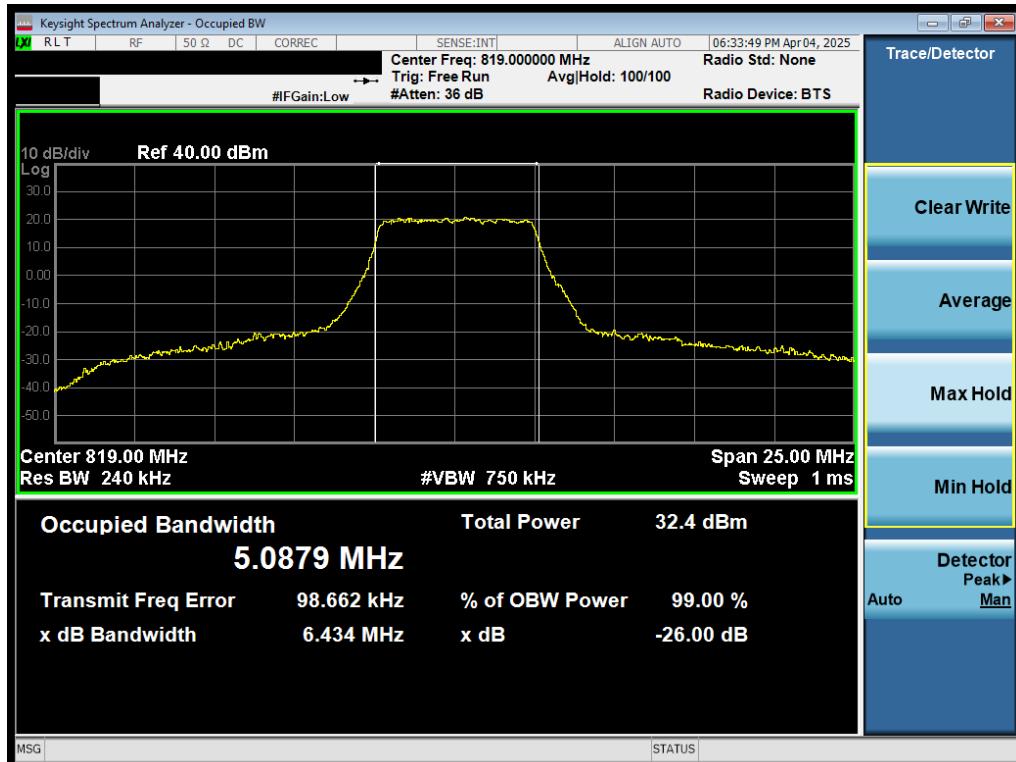


Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 18 of 96



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



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

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 19 of 96

## LTE Band 14

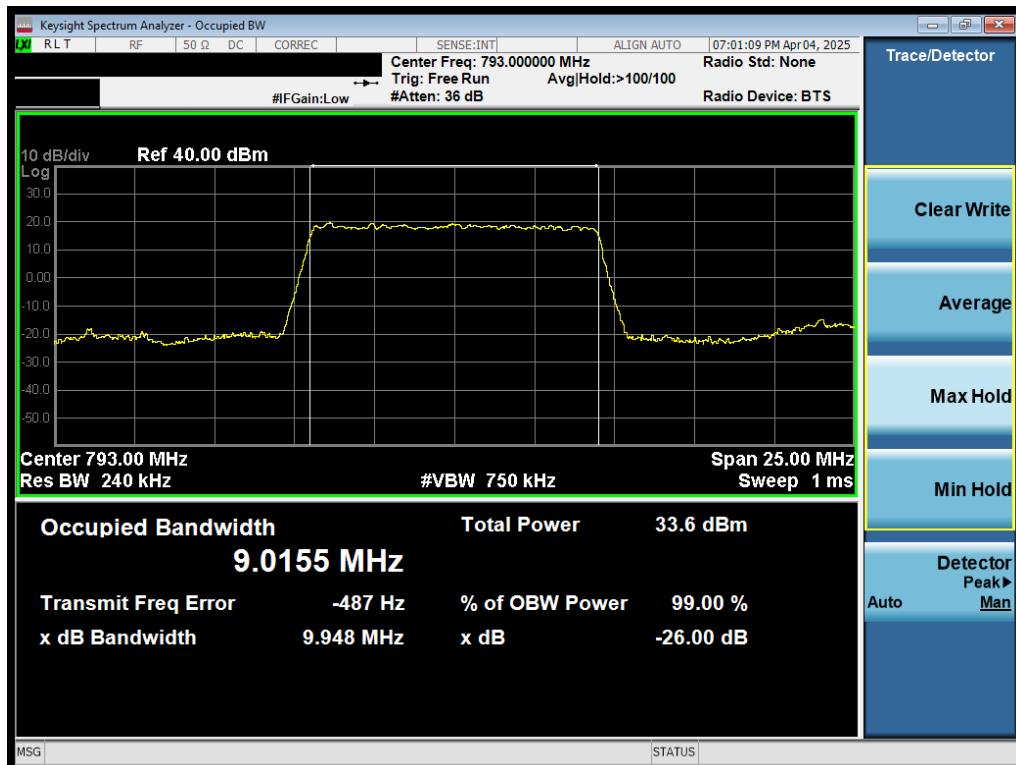


Plot 7-9. Occupied Bandwidth Plot (LTE Band 14 - 5MHz QPSK - Full RB Configuration)

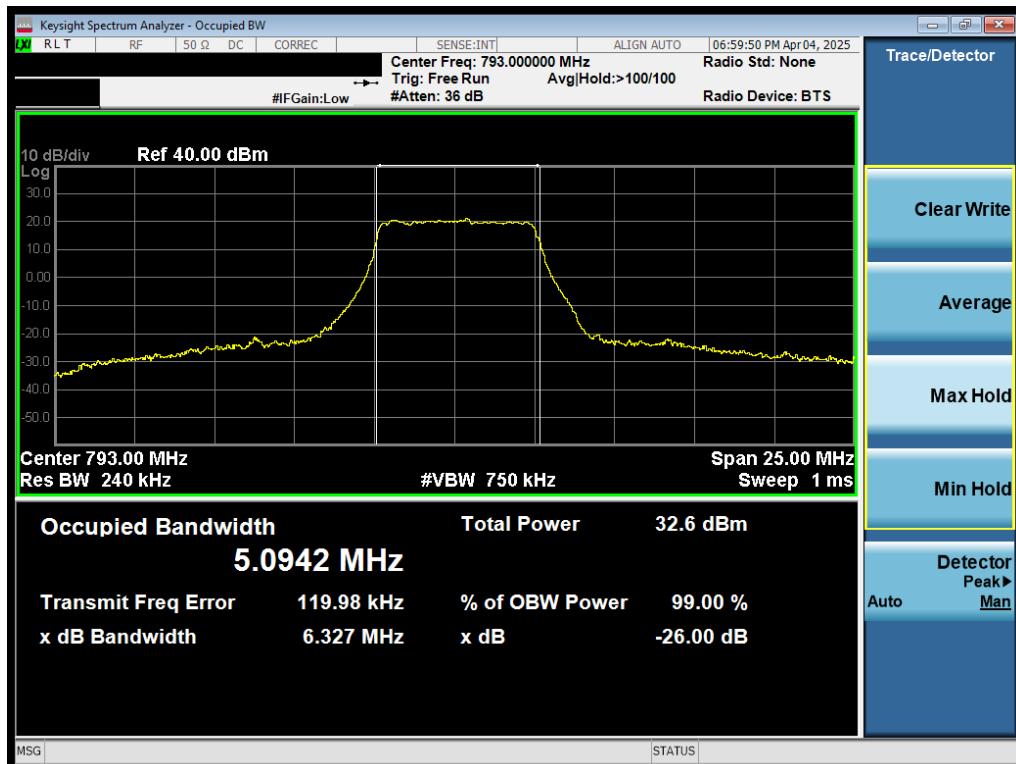


Plot 7-10. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 20 of 96



Plot 7-11. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB Configuration)



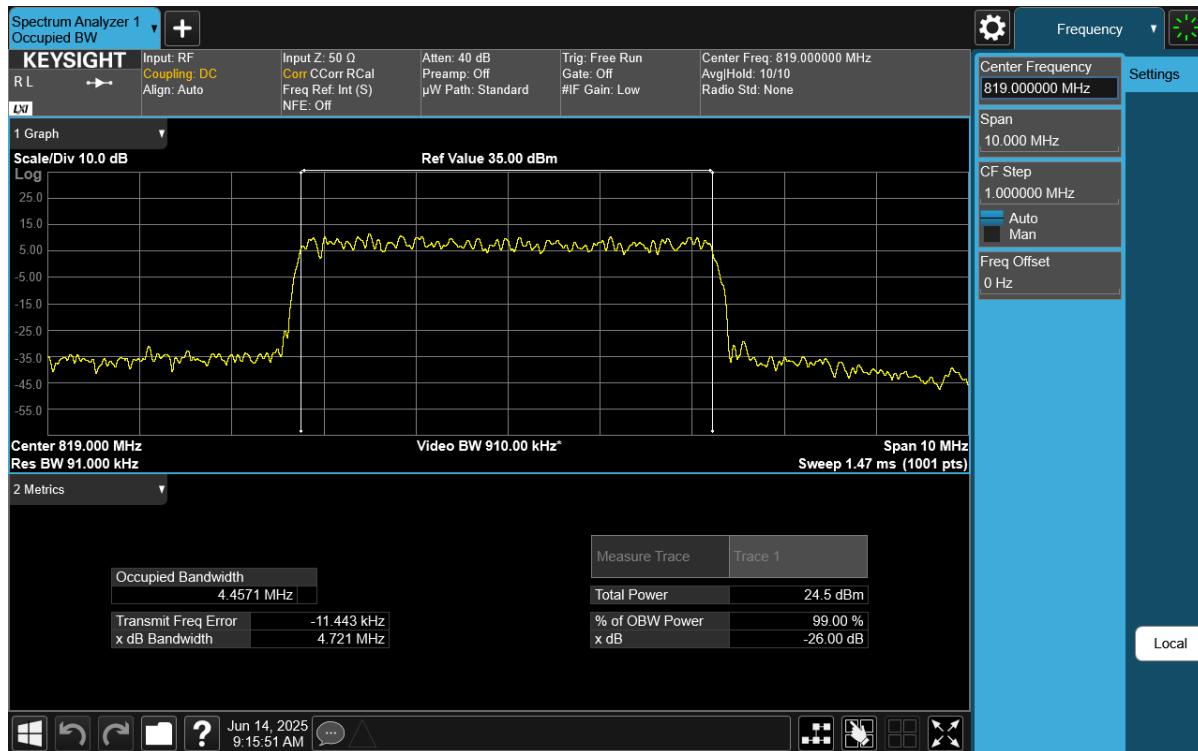
Plot 7-12. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 21 of 96

## NR Band n26

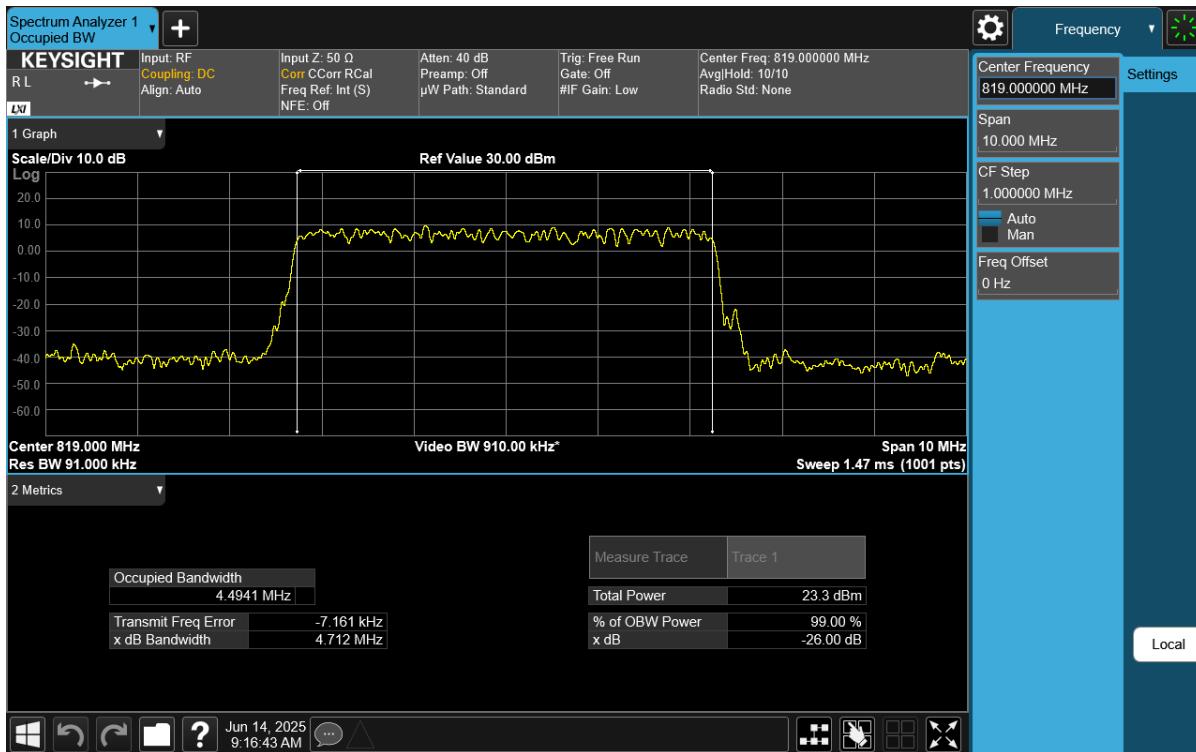


Plot 7-13. Occupied Bandwidth Plot (NR Band 26 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB Configuration)



Plot 7-14. Occupied Bandwidth Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - Full RB Configuration)

FCC ID: BCG-A3326	 element		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 22 of 96	



FCC ID: BCG-A3326	element		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 23 of 96

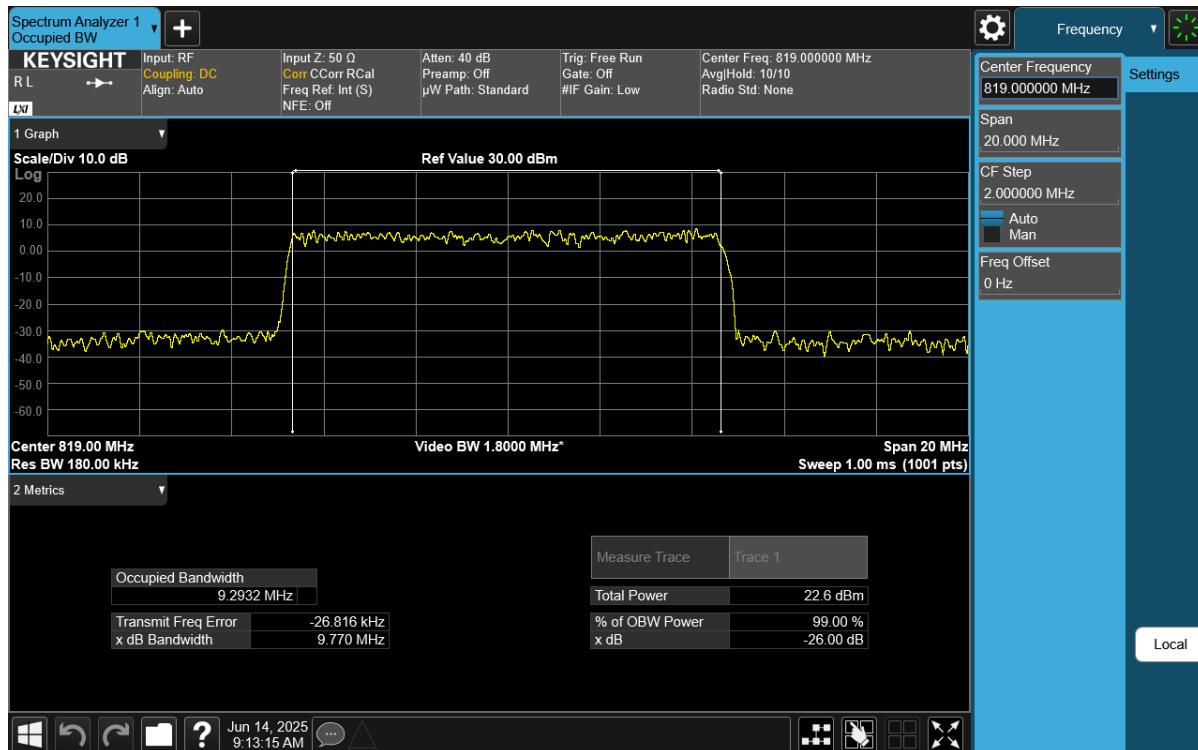


**Plot 7-17. Occupied Bandwidth Plot (NR Band 26 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB Configuration)**



**Plot 7-18. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM QPSK - Full RB Configuration)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT	
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Approved by: Technical Manager



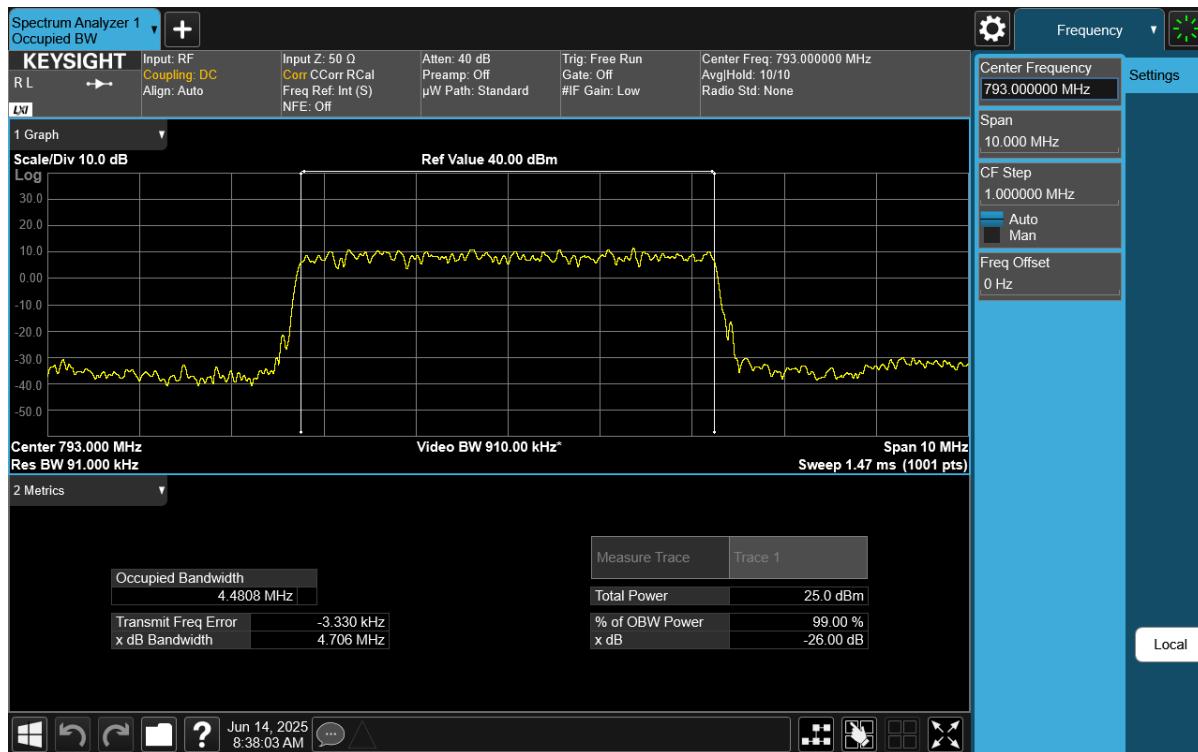
**Plot 7-19. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 16-QAM - Full RB Configuration)**



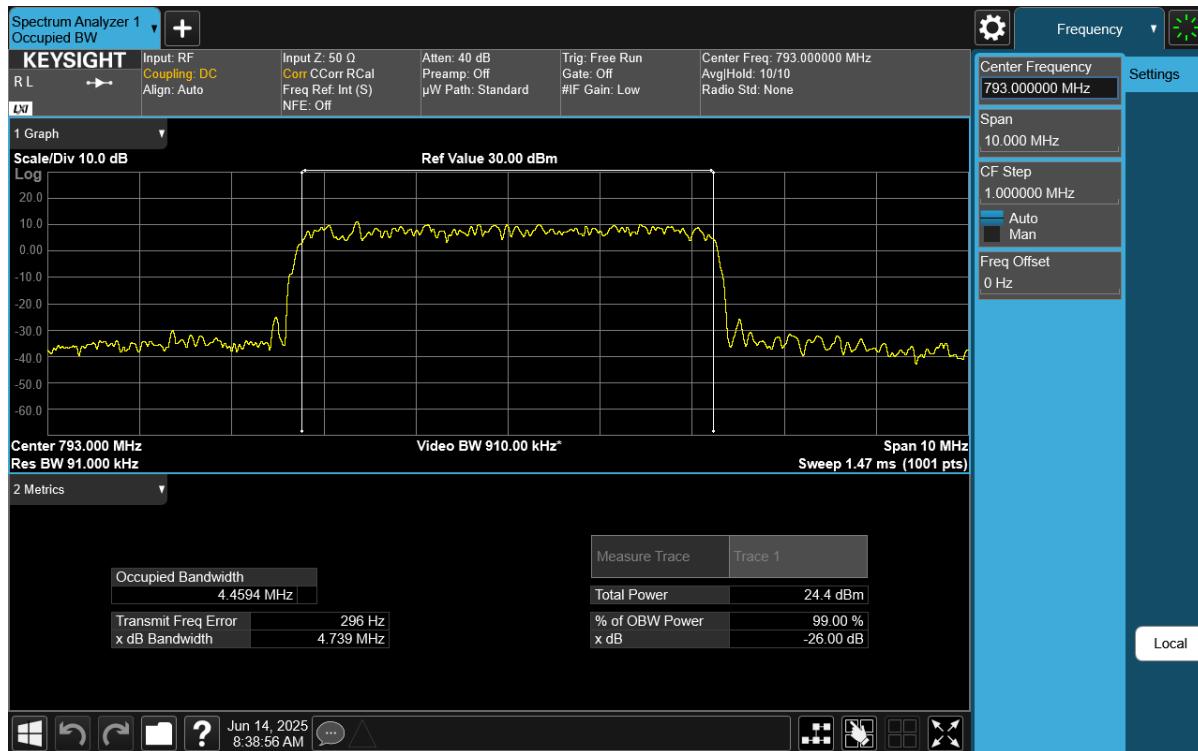
**Plot 7-20. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 64-QAM - Full RB Configuration)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT	
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Approved by: Technical Manager

## NR Band n14

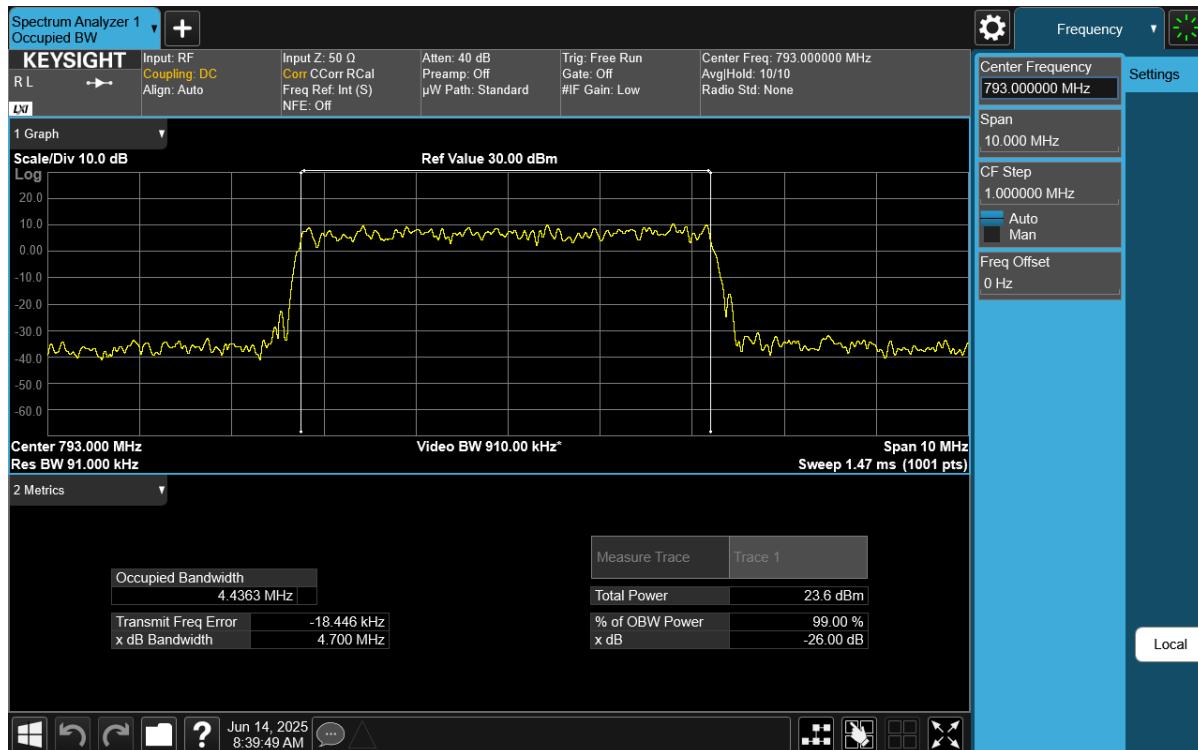


Plot 7-21. Occupied Bandwidth Plot (NR Band 14 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB Configuration)



Plot 7-22. Occupied Bandwidth Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - Full RB Configuration)

FCC ID: BCG-A3326	 element		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 26 of 96



**Plot 7-23. Occupied Bandwidth Plot (NR Band 14 - 5MHz DFT-s-OFDM 16-QAM - Full RB Configuration)**

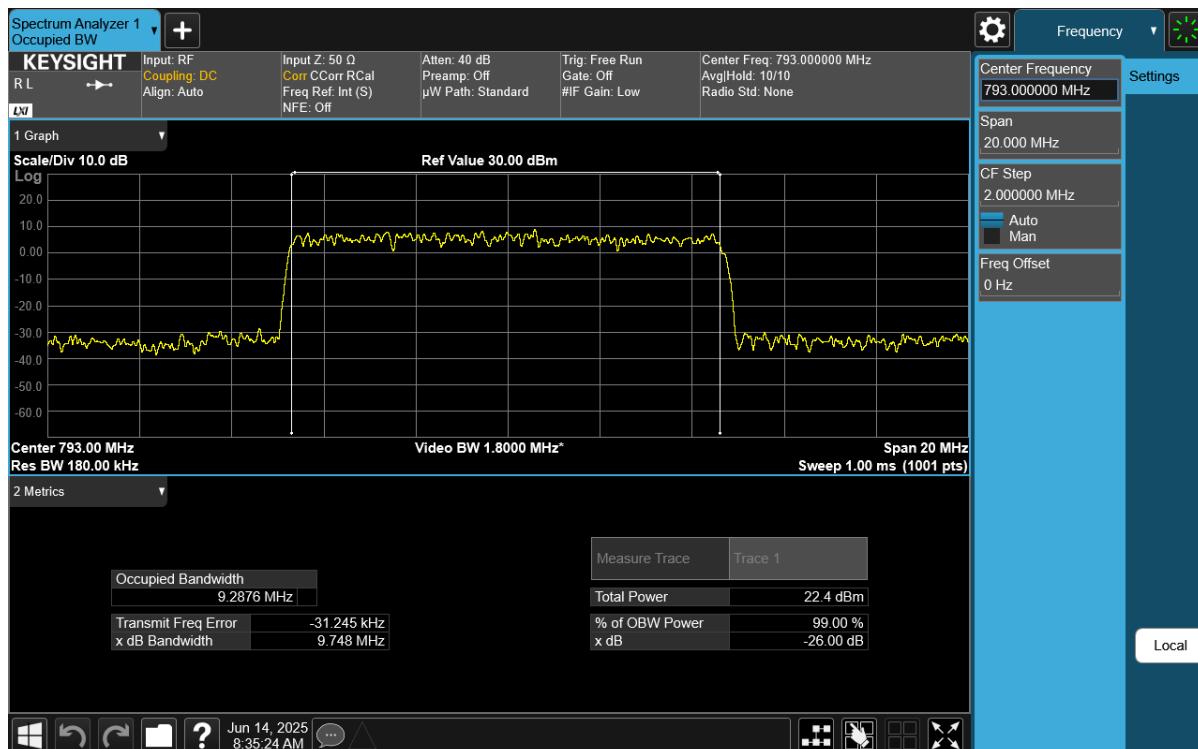


**Plot 7-24. Occupied Bandwidth Plot (NR Band 14 - 5MHz DFT-s-OFDM 64-QAM - Full RB Configuration)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT	
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Approved by: Technical Manager

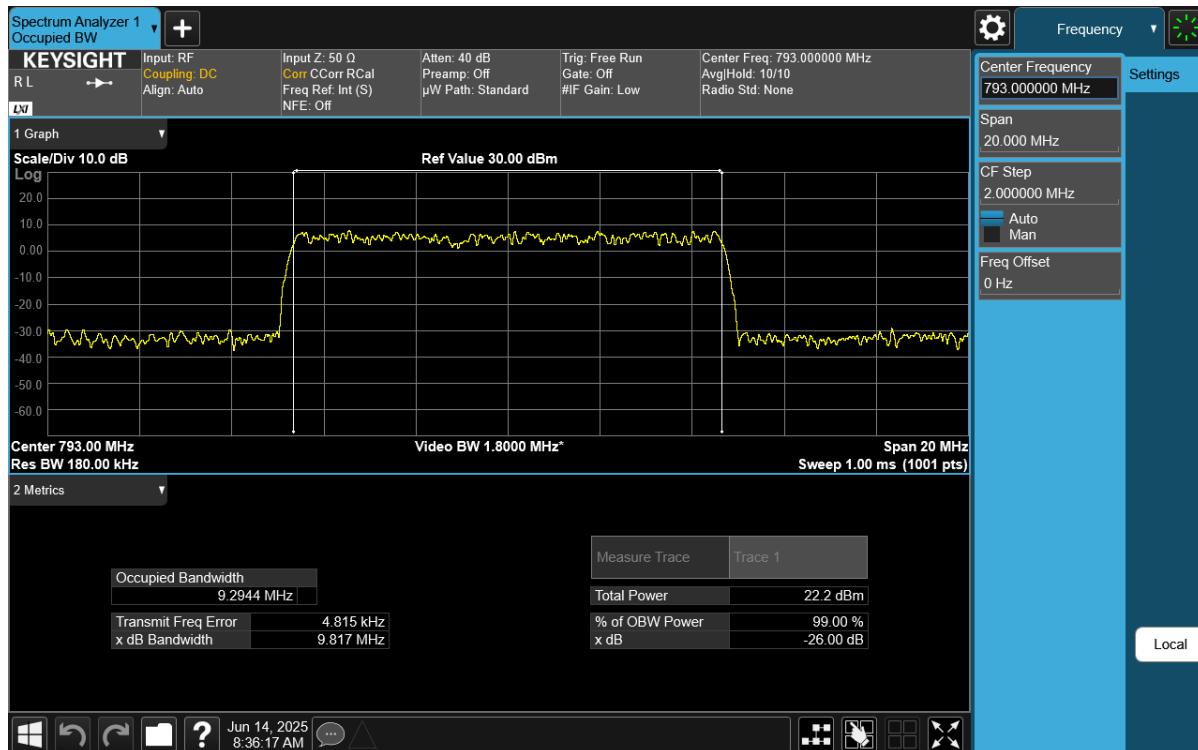


**Plot 7-25. Occupied Bandwidth Plot (NR Band 14 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB Configuration)**

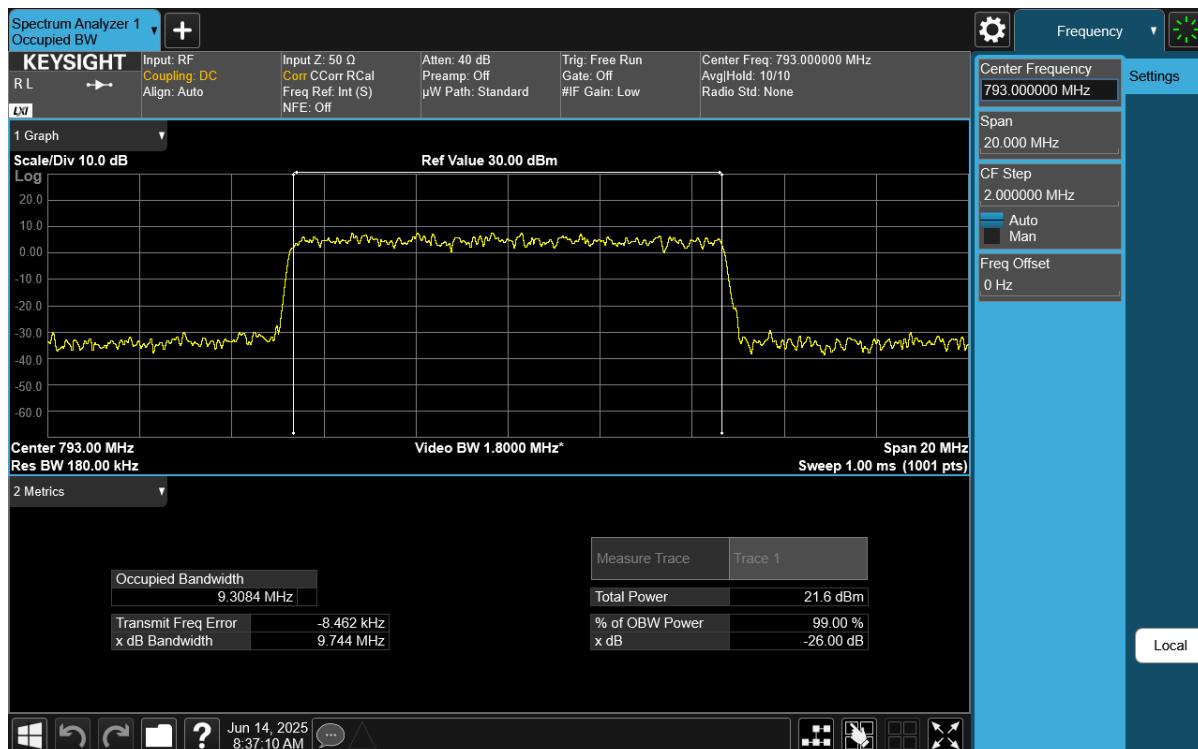


**Plot 7-26. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM QPSK - Full RB Configuration)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 28 of 96	



**Plot 7-27. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 16-QAM - Full RB Configuration)**



**Plot 7-28. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 64-QAM - Full RB Configuration)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT	
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Approved by: Technical Manager

## 7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051 §90.691(a) §90.543(e)

### 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 10<sup>th</sup> 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 and all ports 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

KDB 971168 D01 v03r01 – Section 6.0

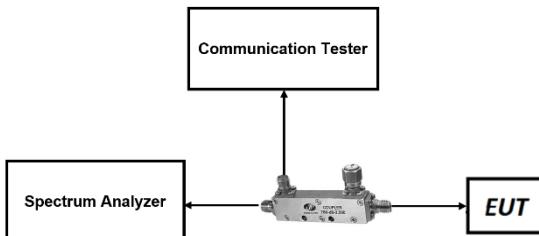
### Test Settings

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

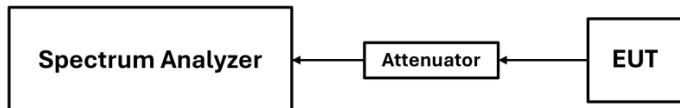
FCC ID: BCG-A3326	 element			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch			Page 30 of 96

## Test Setup

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



**Figure 7-3. Test Instrument & Measurement Setup**



**Figure 7-4. FR1 Test Instrument & Measurement Setup**

## Test Notes

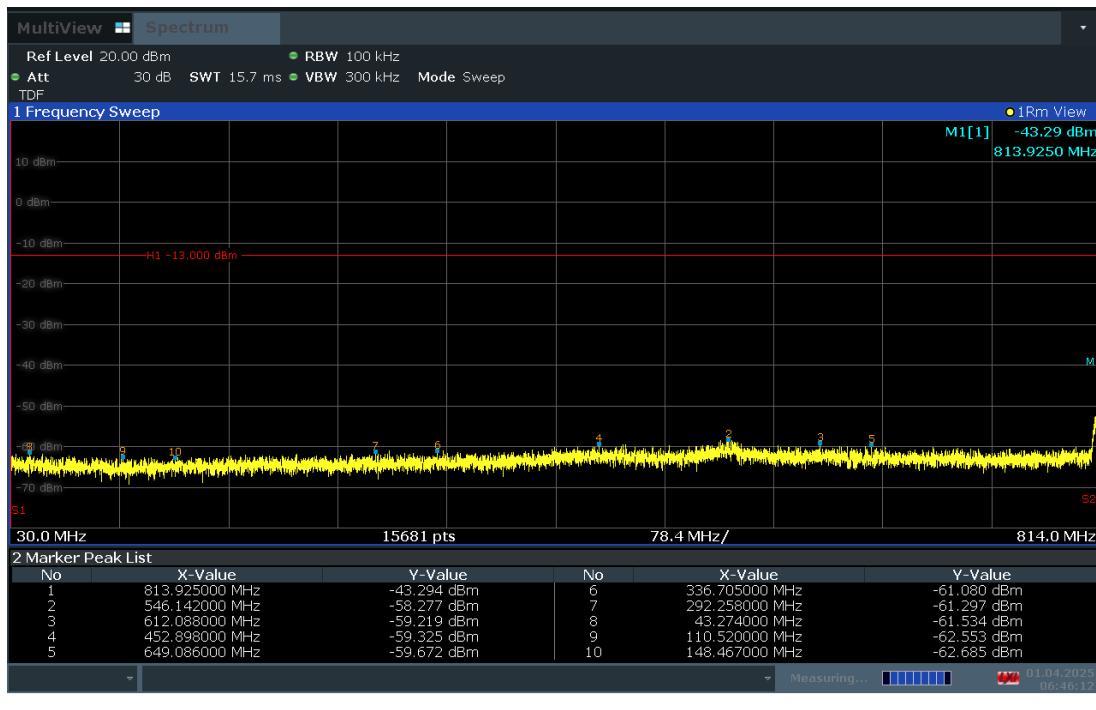
Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for Part 90. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Approved by: Technical Manager

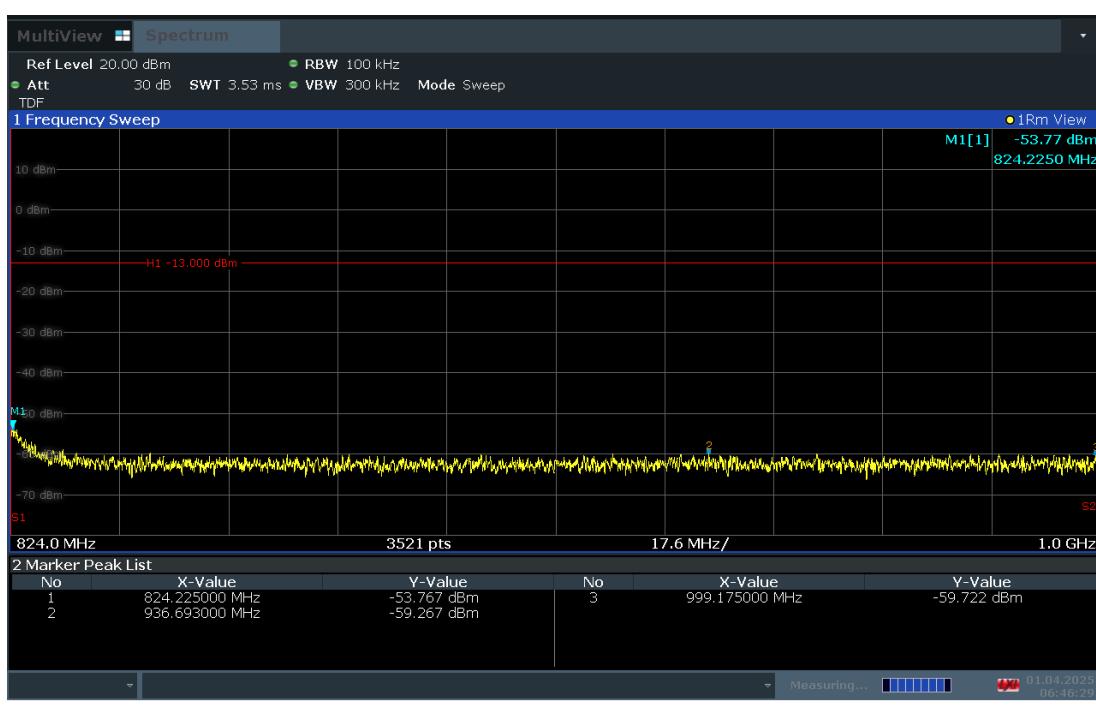
V2.2 09/07/2023

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## LTE Band 26

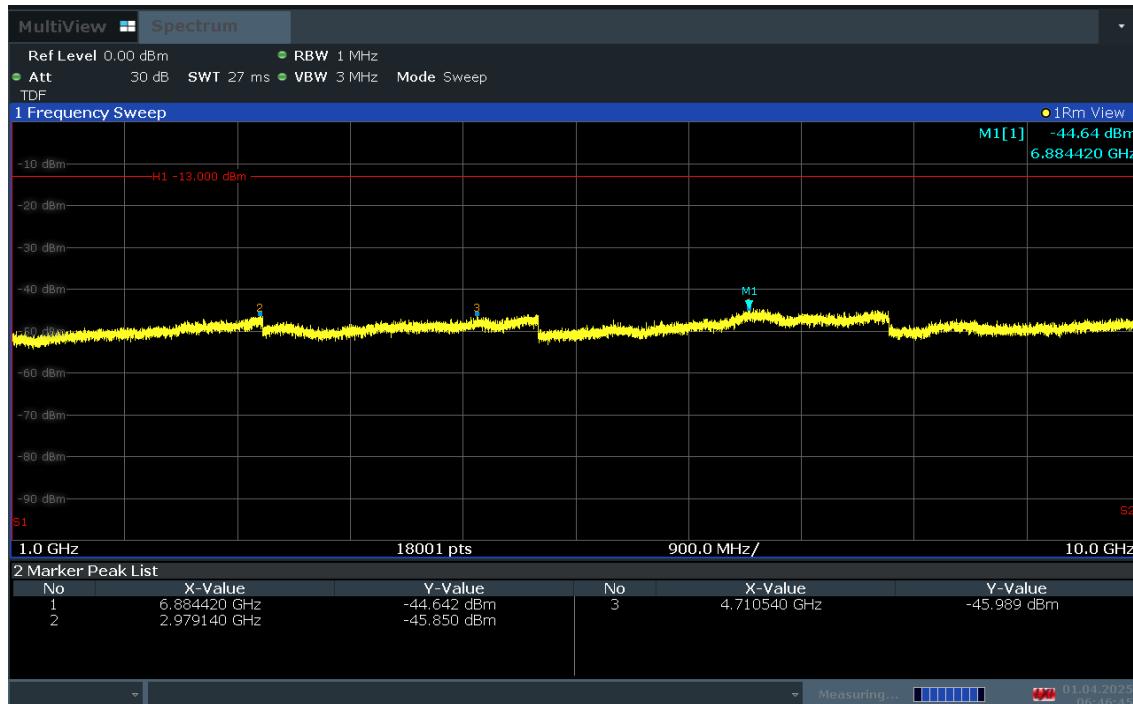


**Plot 7-29. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – Low Channel)**



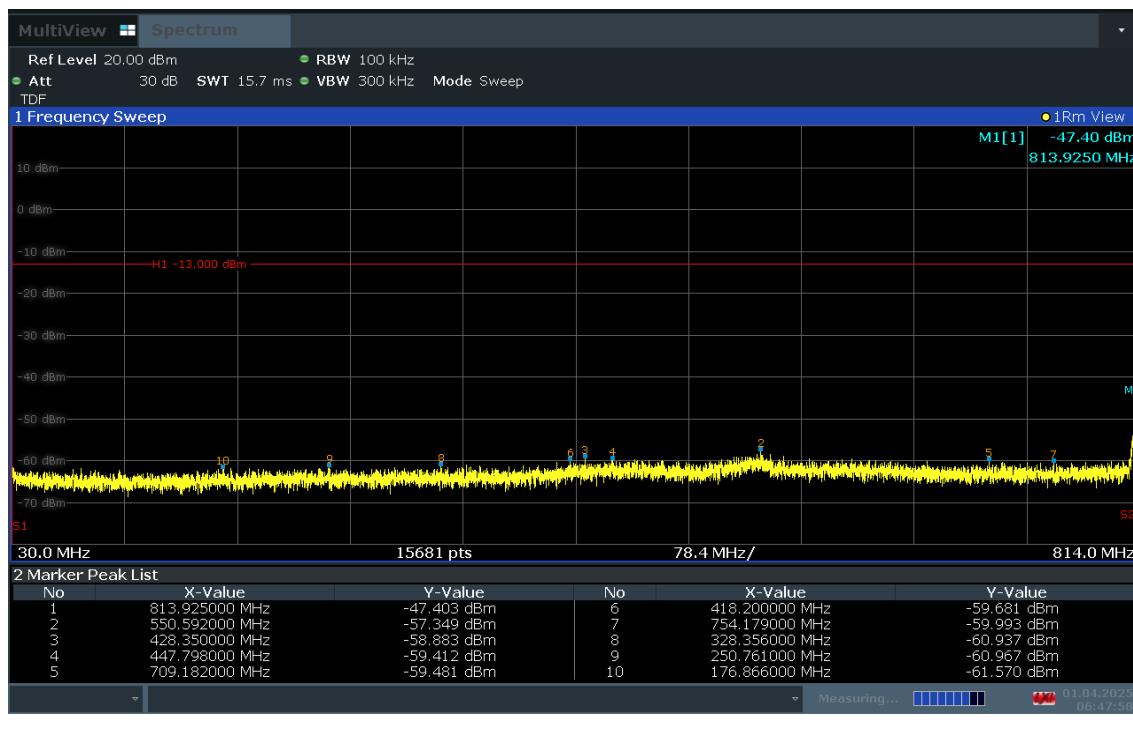
**Plot 7-30. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – Low Channel)**

FCC ID: BCG-A3326	 <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 32 of 96



06:46:46 01.04.2025

**Plot 7-31. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – Low Channel)**



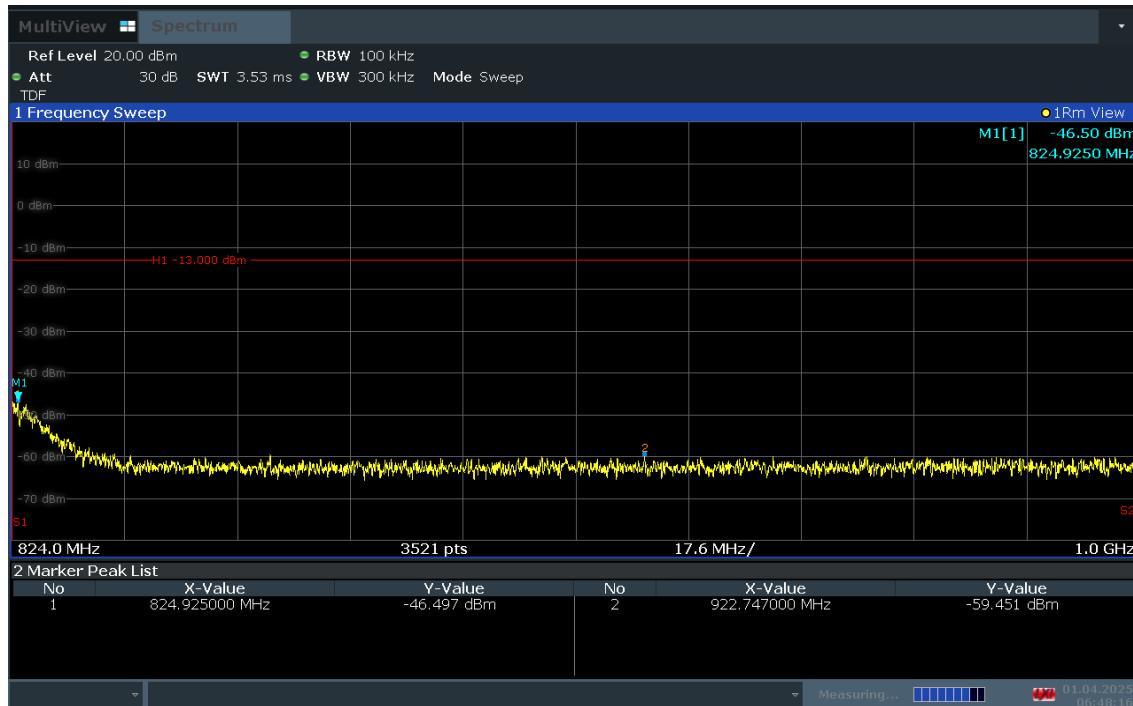
06:48:00 01.04.2025

**Plot 7-32. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 33 of 96

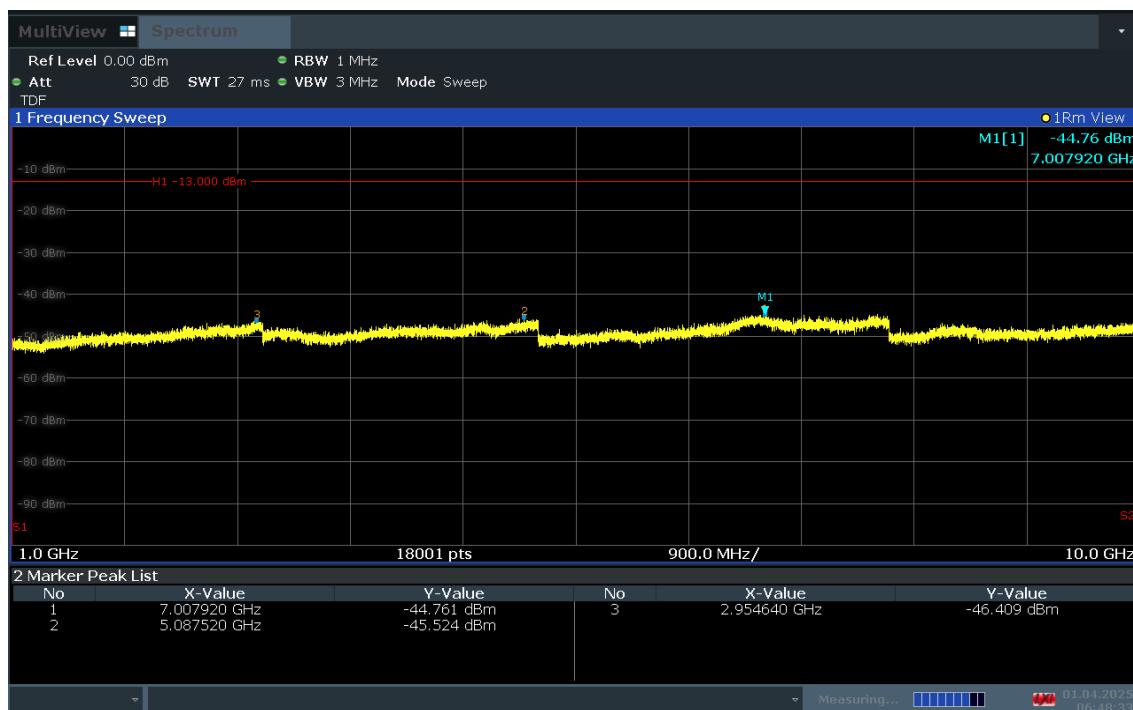
V2.2 09/07/2023

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06:48:16 01.04.2025

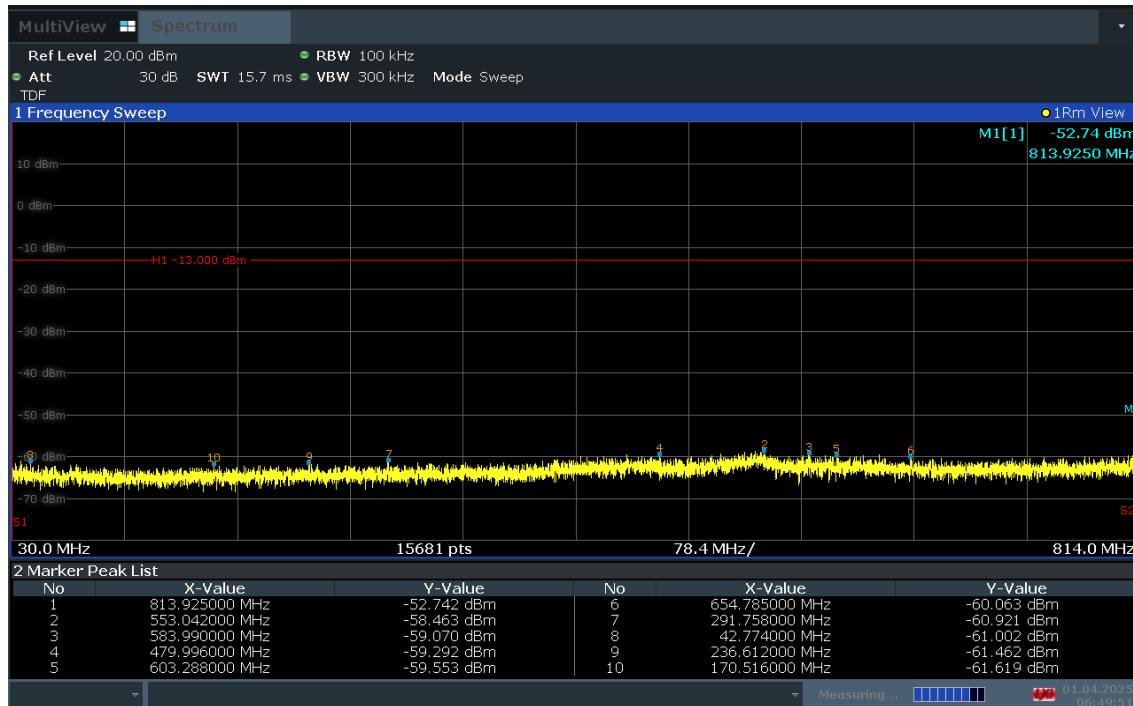
**Plot 7-33. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**



06:48:33 01.04.2025

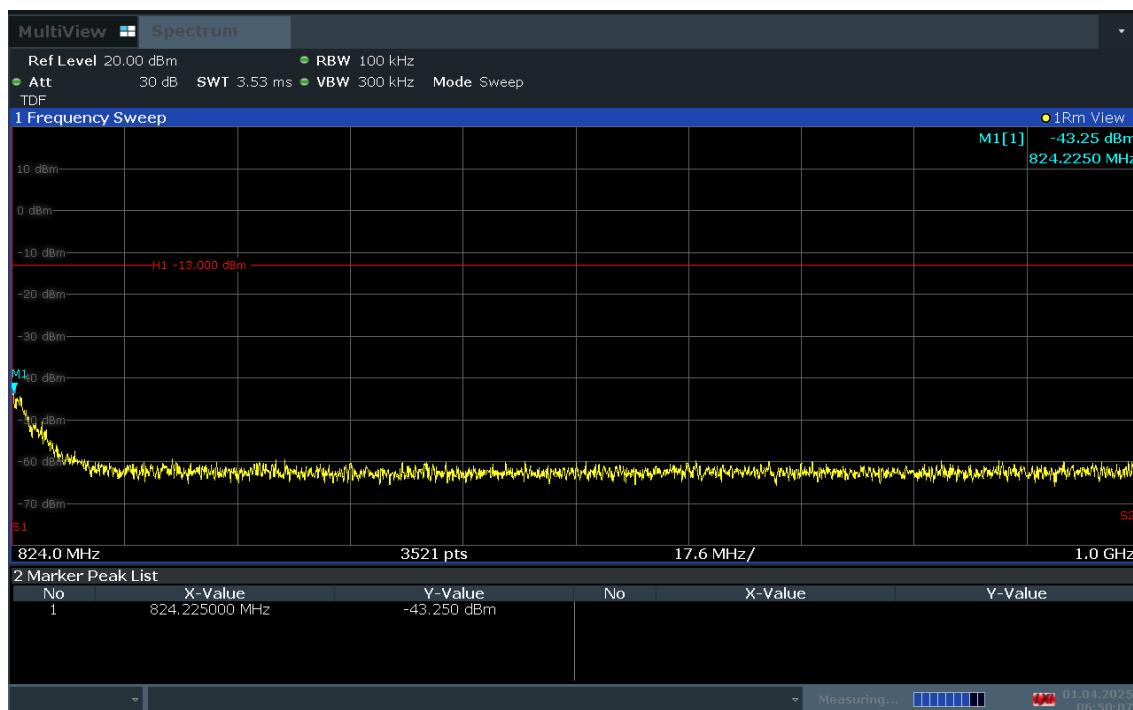
**Plot 7-34. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3326	element		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 34 of 96



06:49:51 01.04.2025

**Plot 7-35. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – High Channel)**



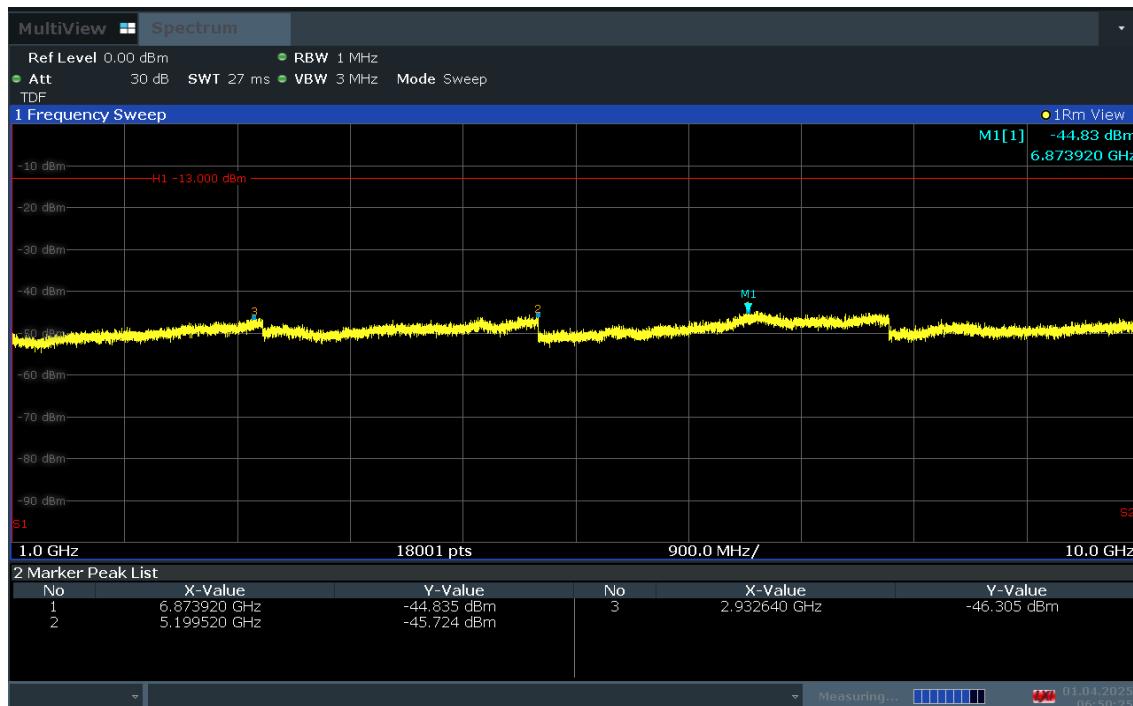
06:50:08 01.04.2025

**Plot 7-36. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – High Channel)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 35 of 96

V2.2 09/07/2023

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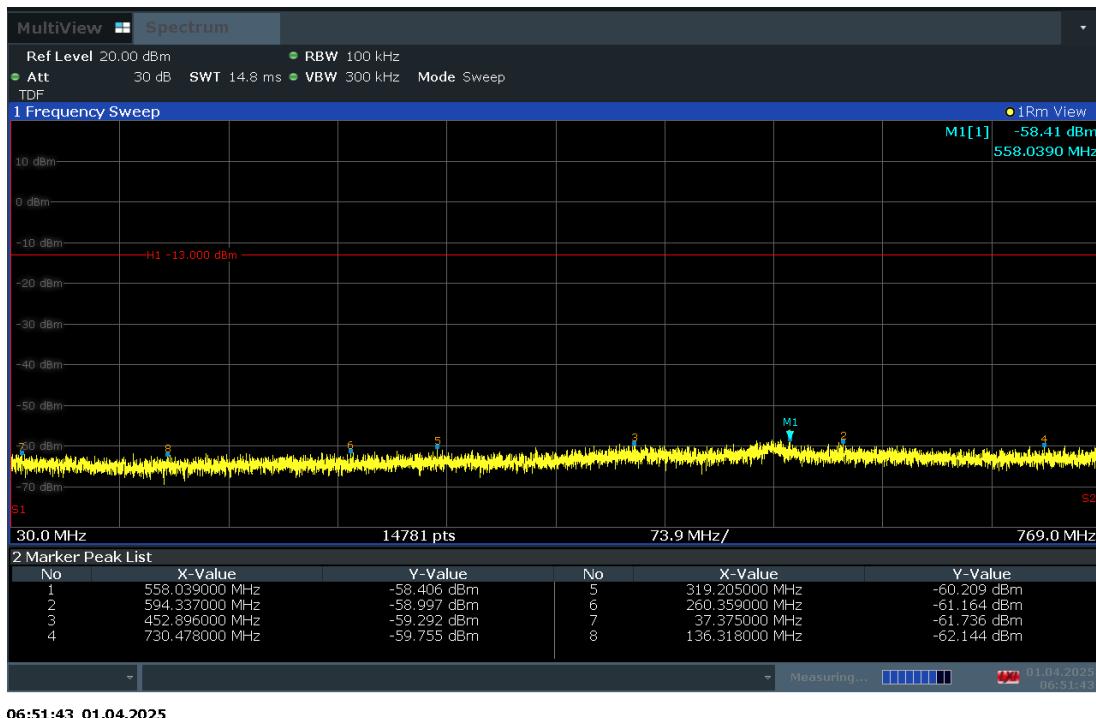


06:50:25 01.04.2025

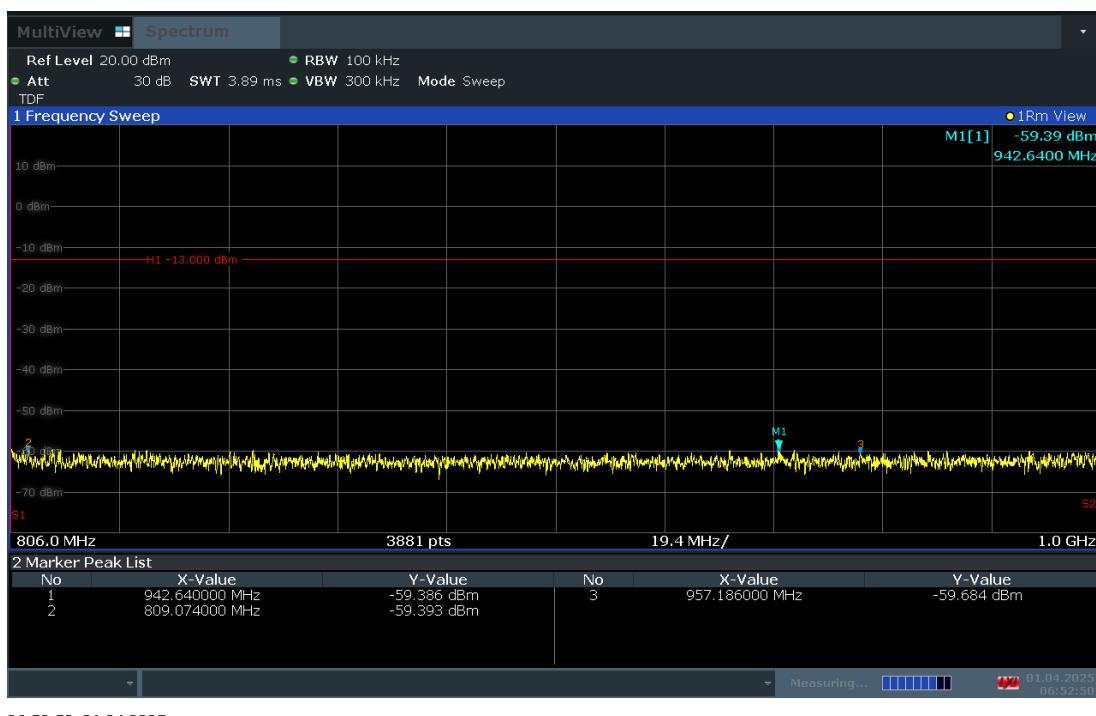
**Plot 7-37. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – High Channel)**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 36 of 96

## LTE Band 14

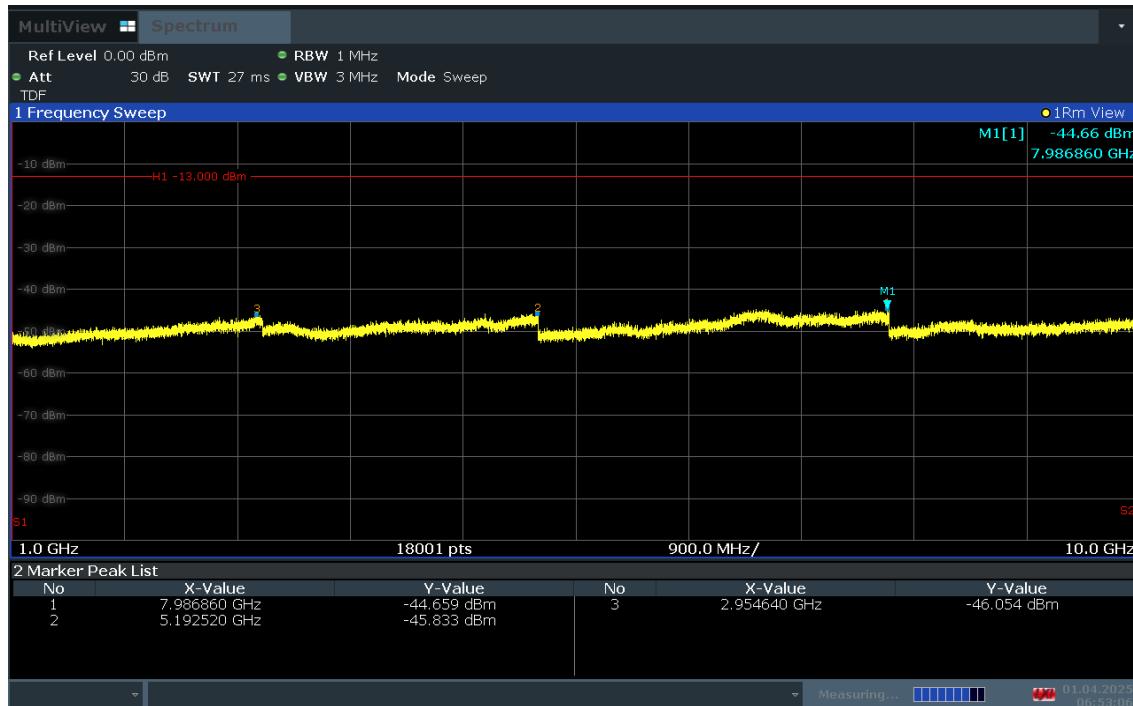


Plot 7-38. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - Low Channel)

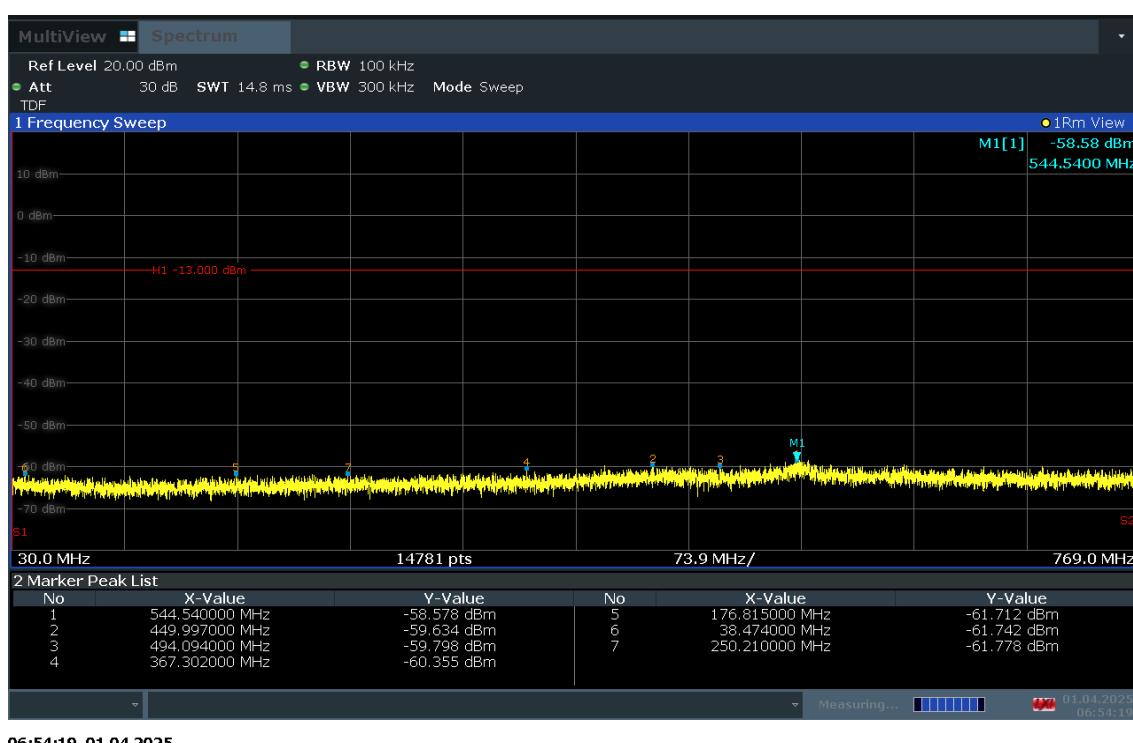


Plot 7-39. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - Low Channel)

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 37 of 96

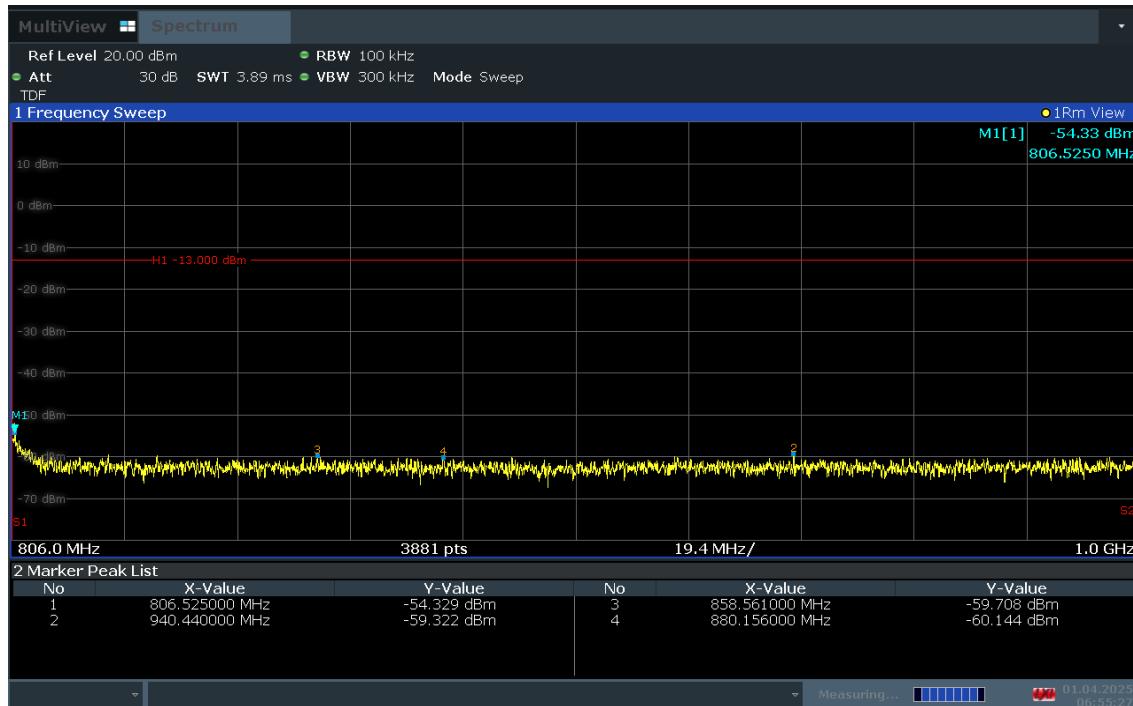


**Plot 7-40. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - Low Channel)**



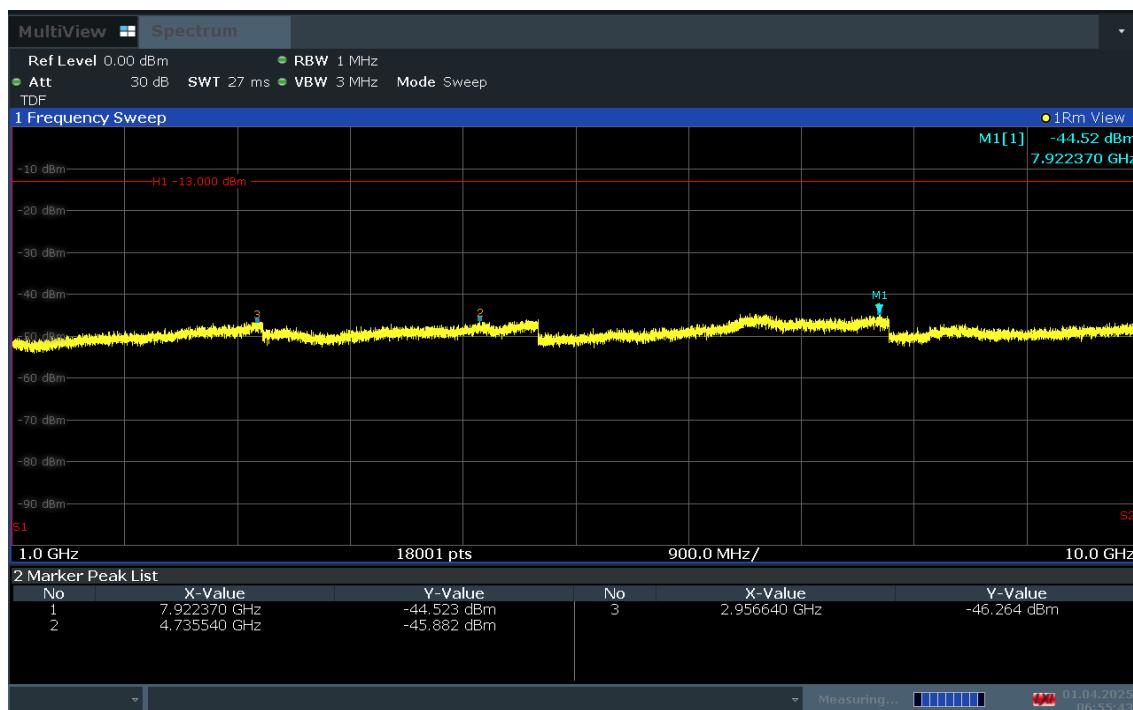
**Plot 7-41. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 38 of 96



06:55:27 01.04.2025

**Plot 7-42. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**



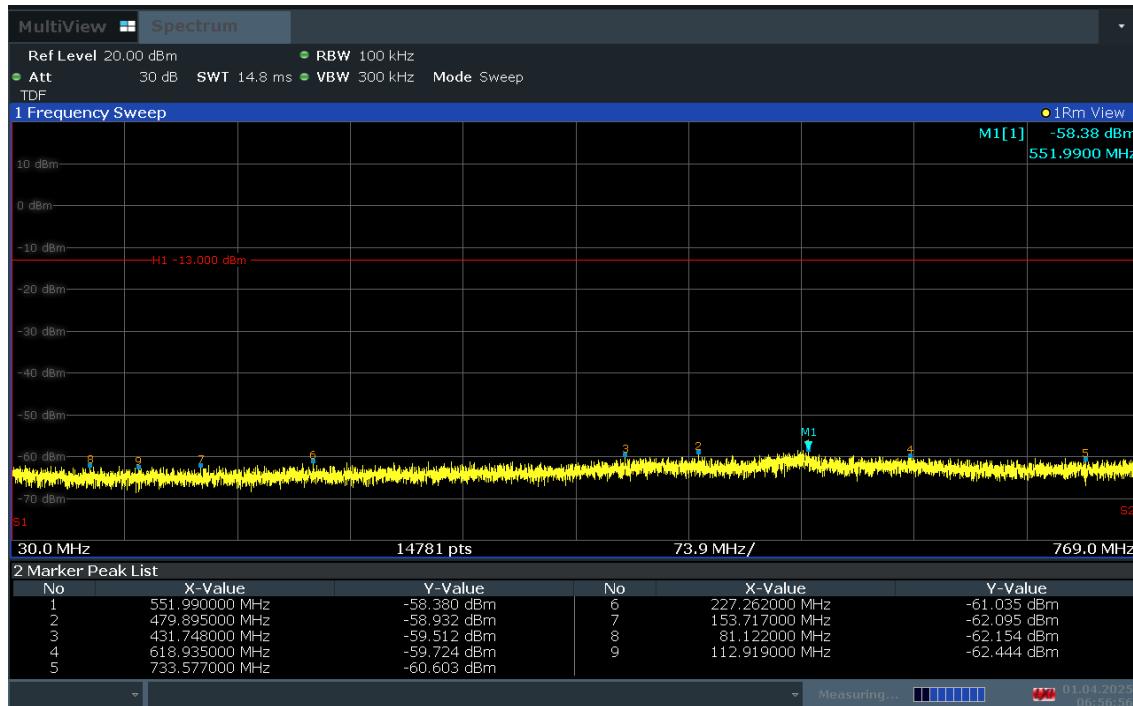
06:55:44 01.04.2025

**Plot 7-43. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

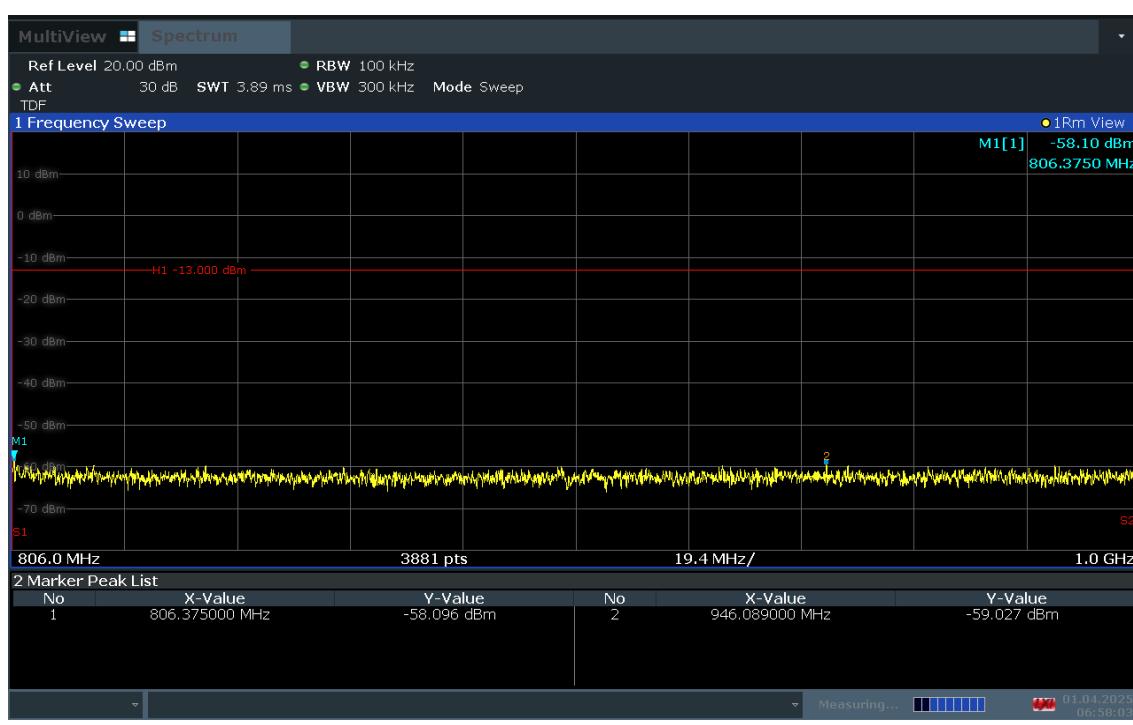
FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 39 of 96

V2.2 09/07/2023

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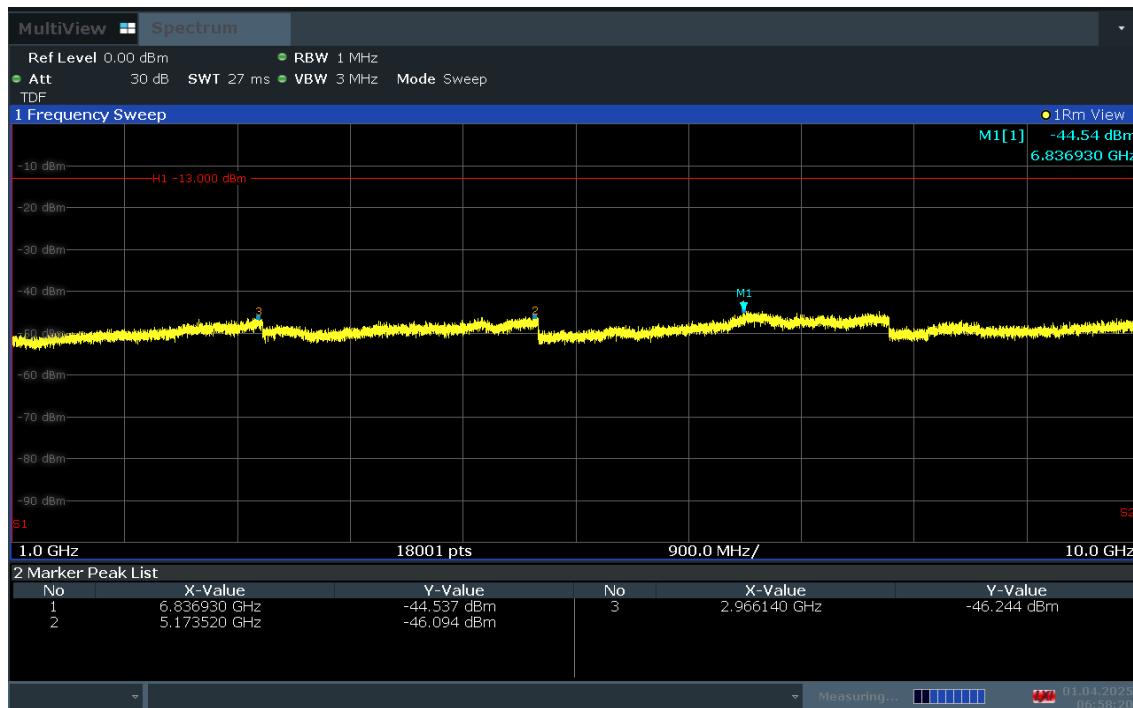


**Plot 7-44. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - High Channel)**



**Plot 7-45. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - High Channel)**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 40 of 96

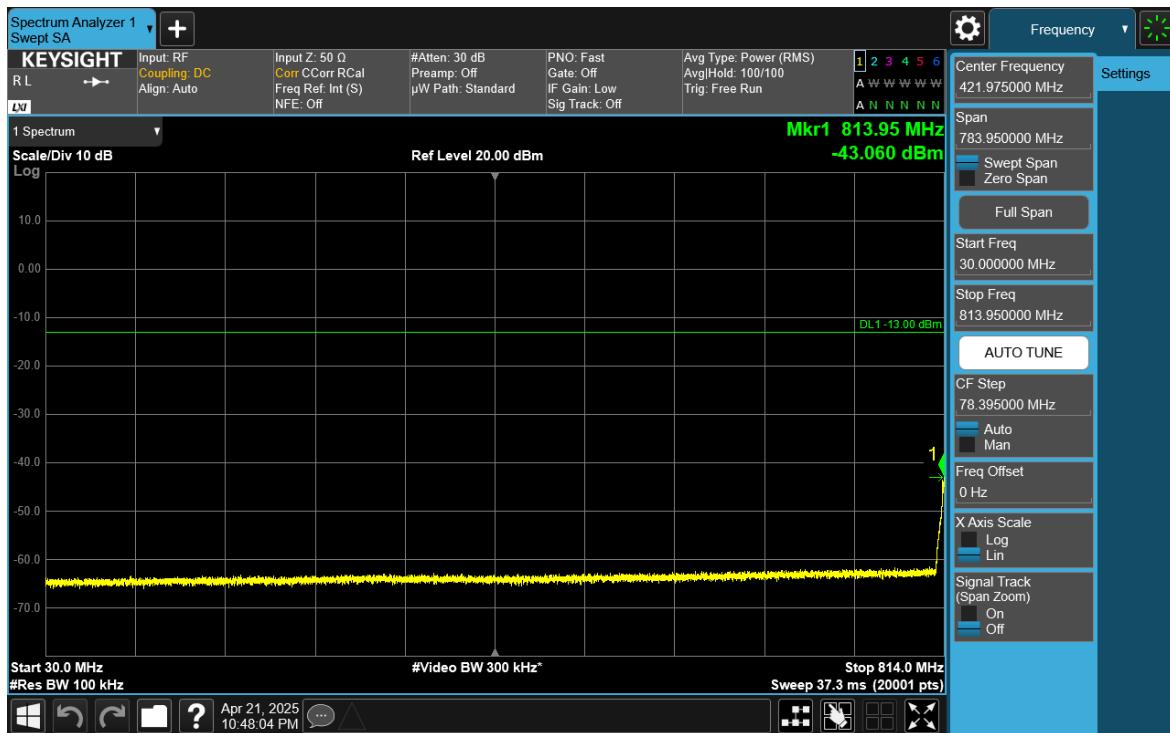


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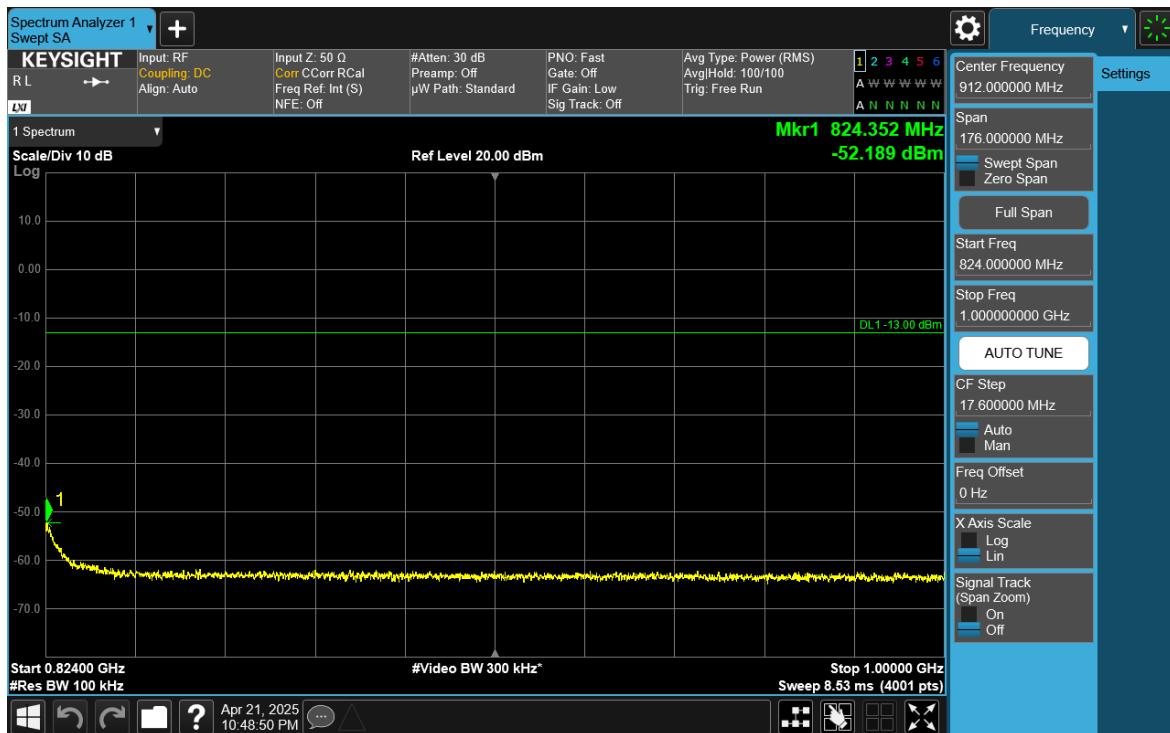
**Plot 7-46. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - High Channel)**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 41 of 96

## NR Band n26

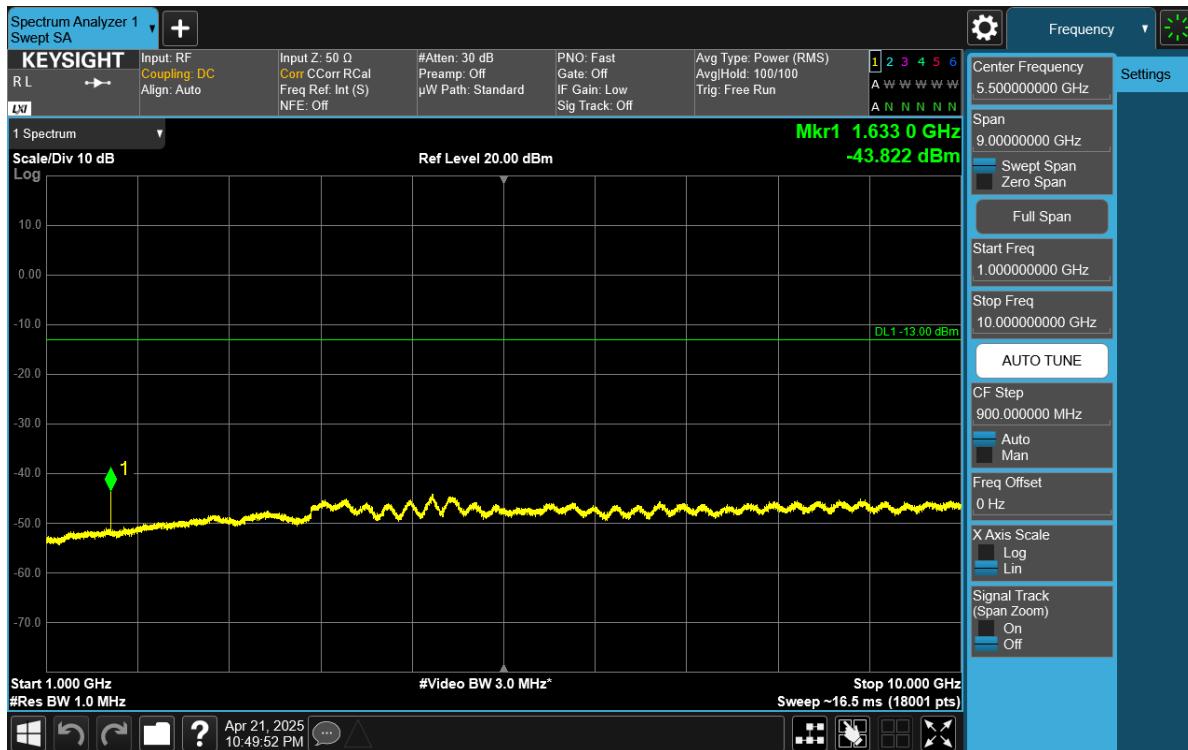


**Plot 7-47. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

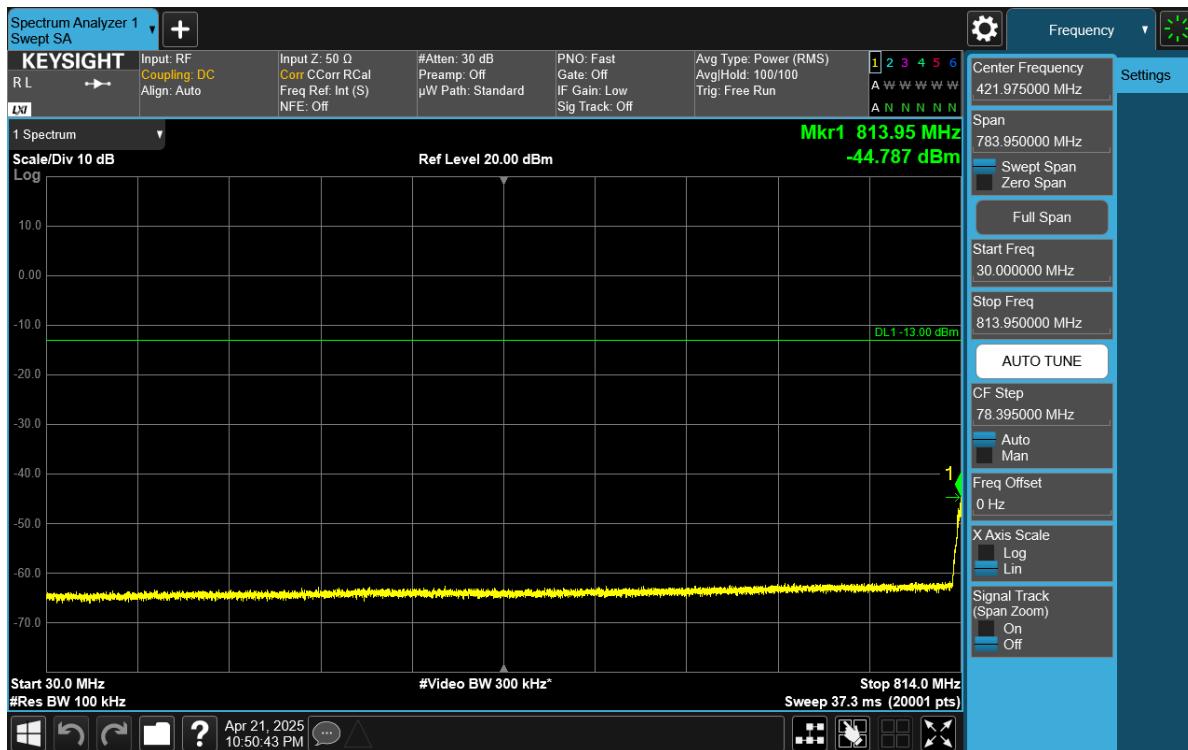


**Plot 7-48. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 42 of 96

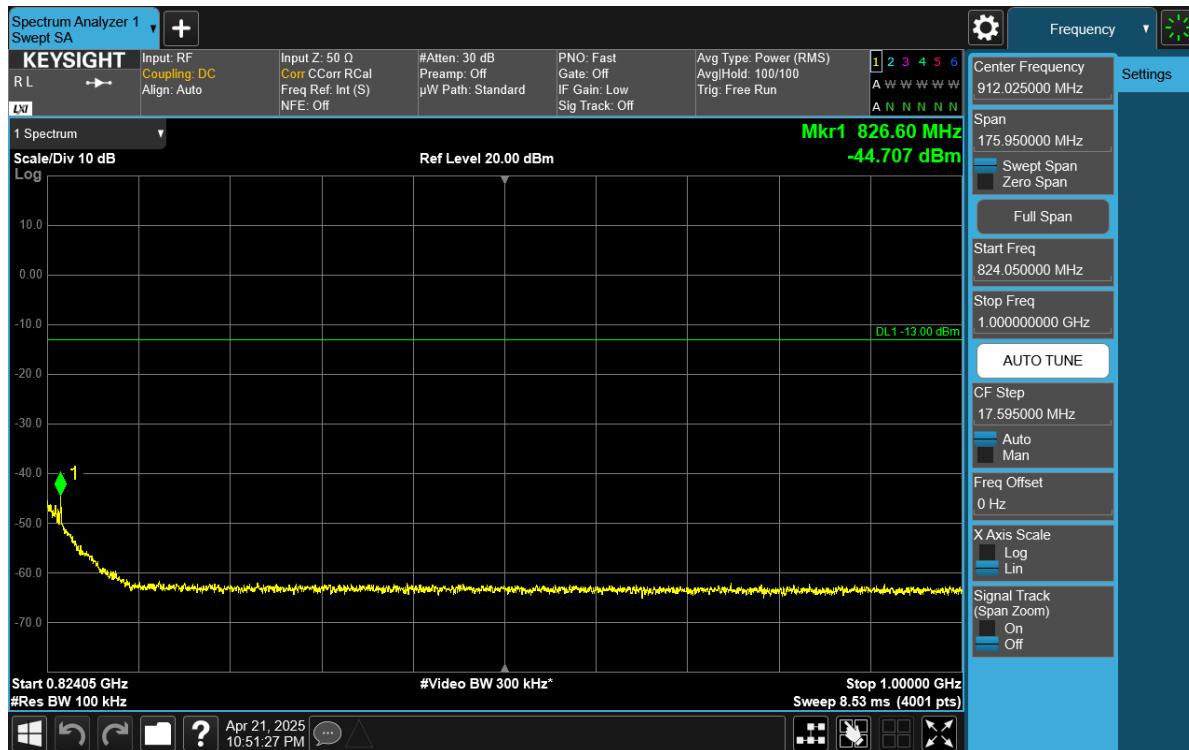


**Plot 7-49. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

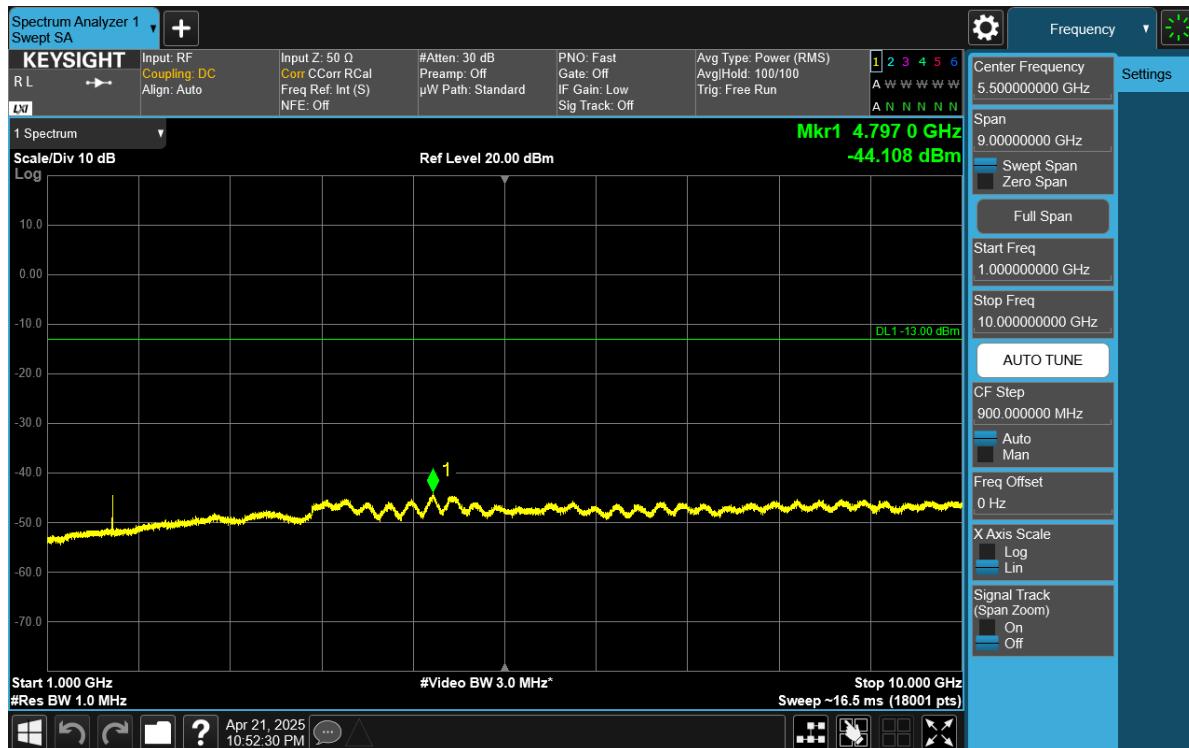


**Plot 7-50. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 43 of 96	

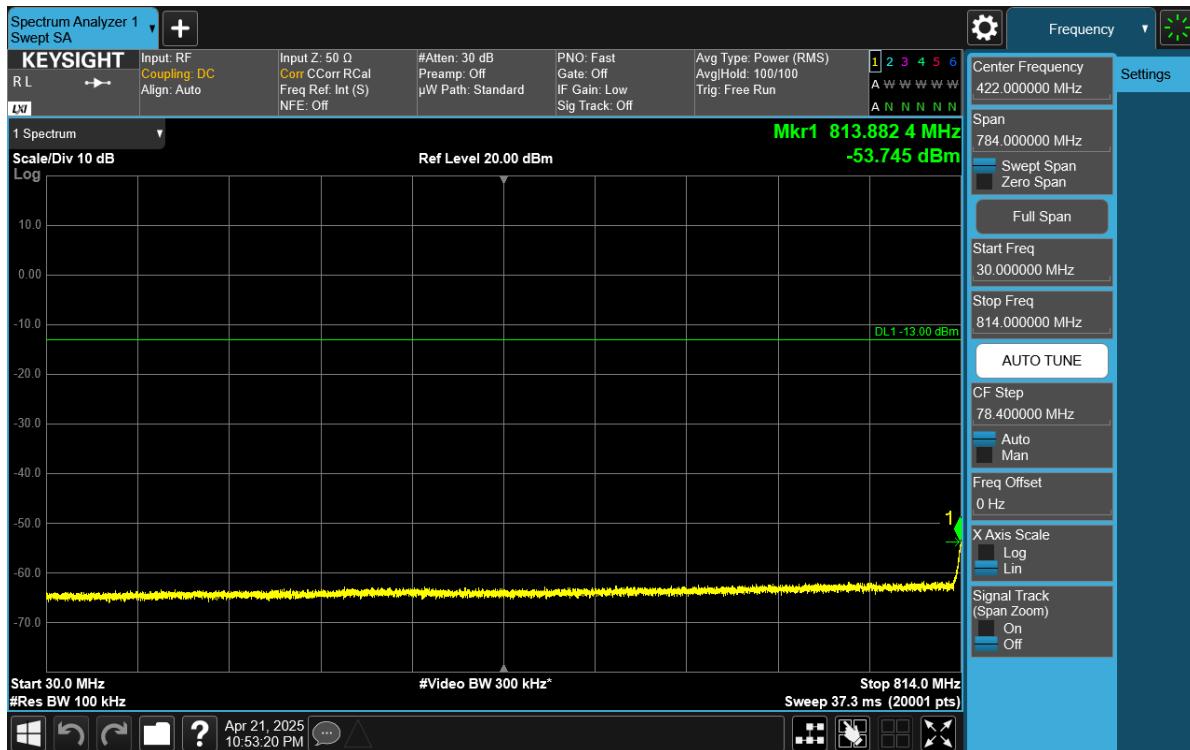


**Plot 7-51. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

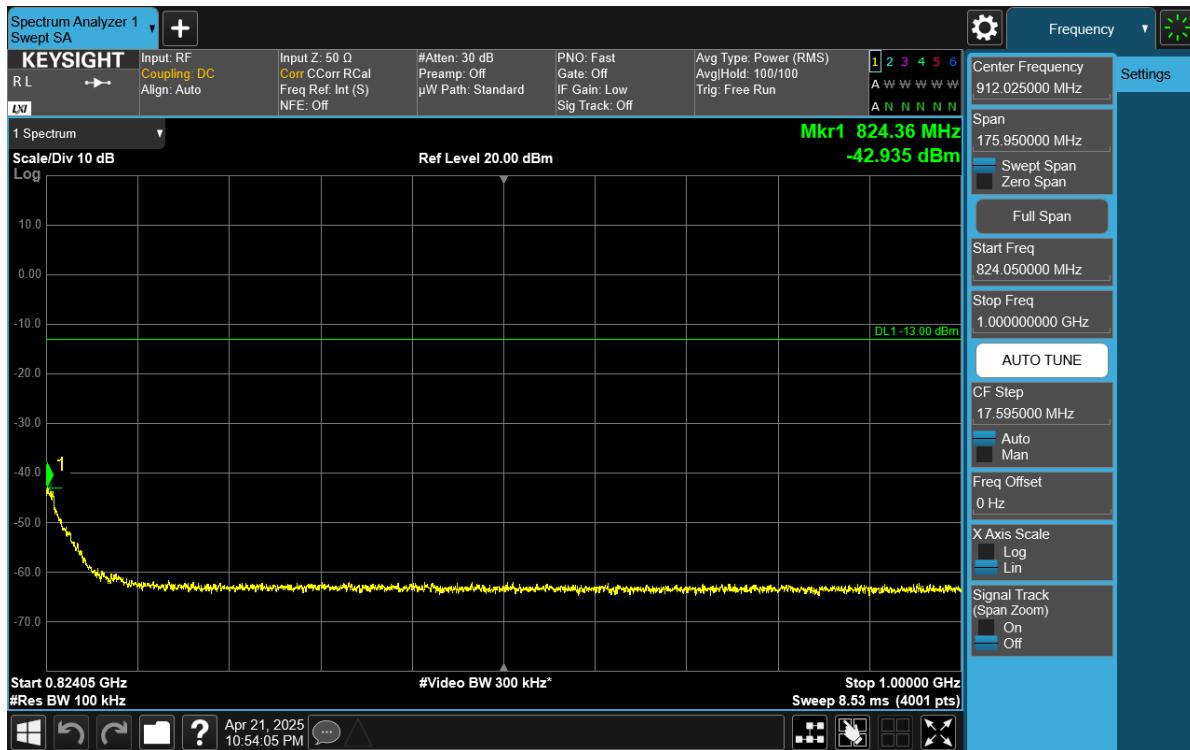


**Plot 7-52. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
<b>Test Report S/N:</b> 1C2503270036-05.BCG	<b>Test Dates:</b> 03/31/2025 - 07/17/2025	<b>EUT Type:</b> Watch		Page 44 of 96

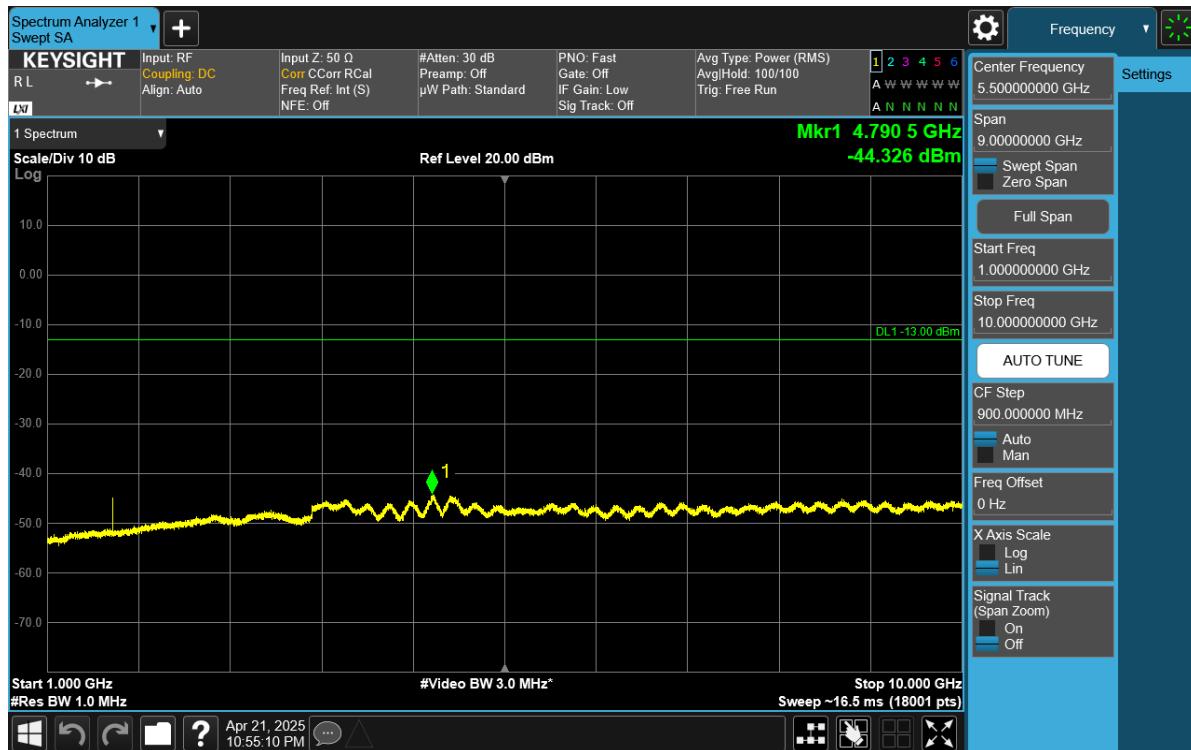


**Plot 7-53. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - High Channel)**



**Plot 7-54. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - High Channel)**

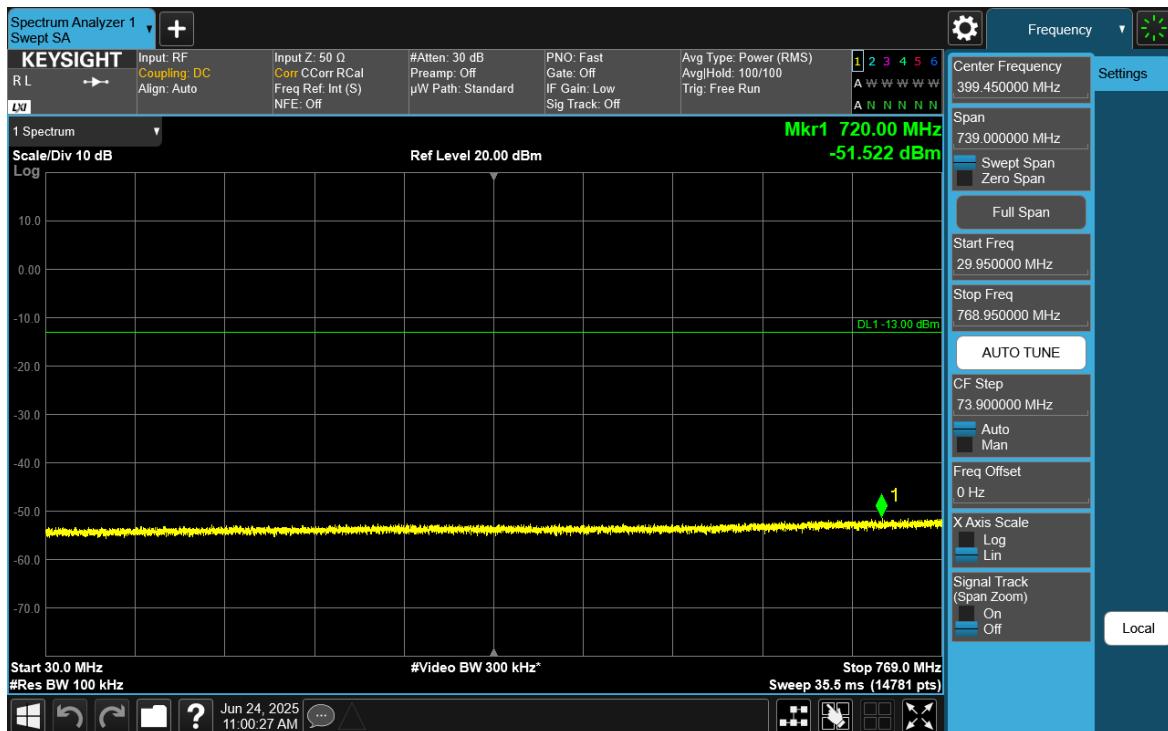
FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 45 of 96	



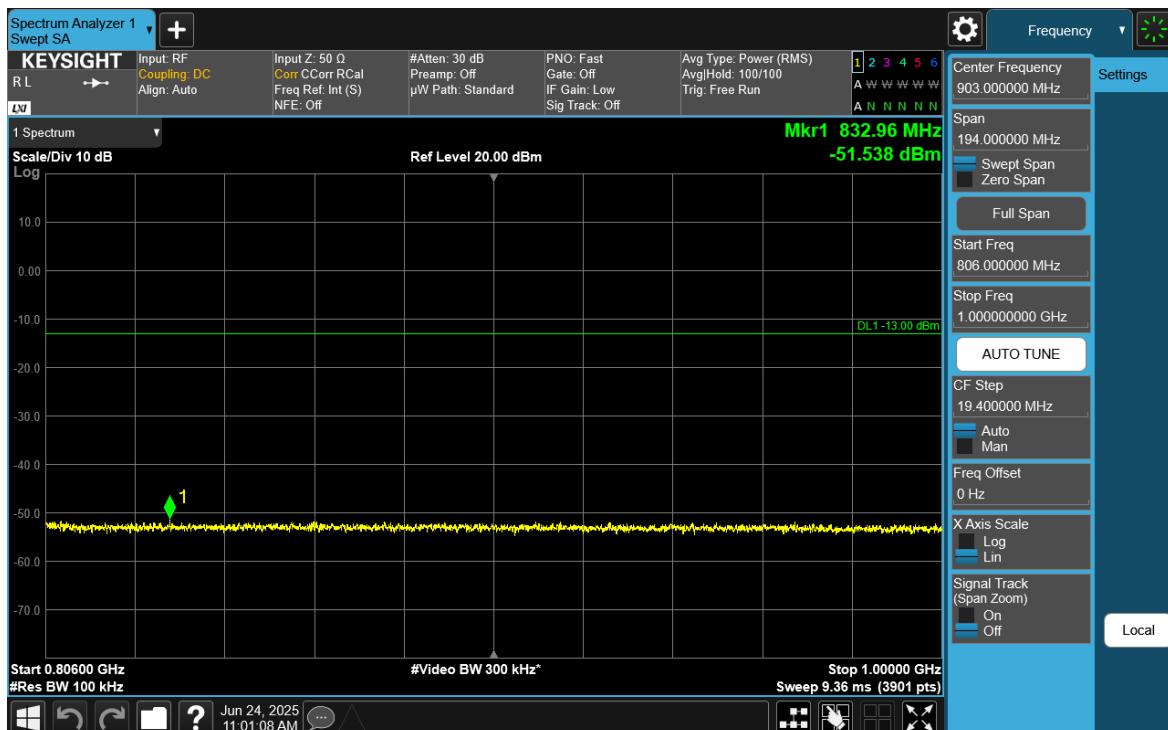
**Plot 7-55. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - High Channel)**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 46 of 96

## NR Band n14

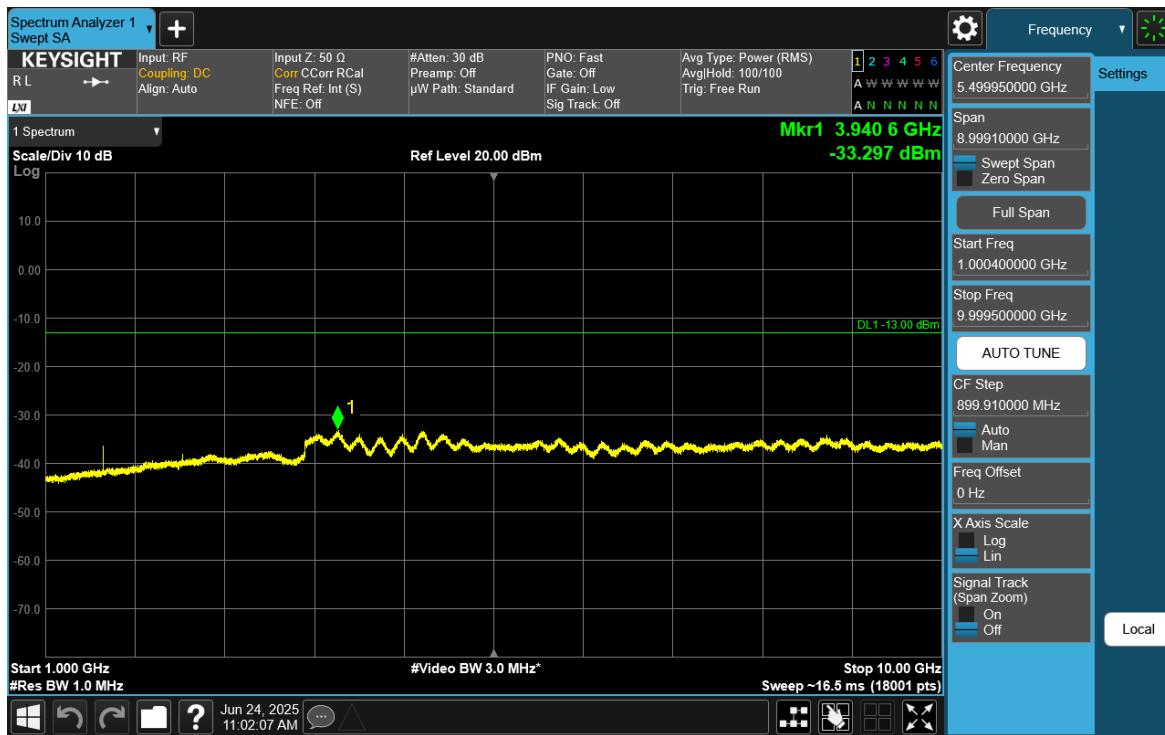


**Plot 7-56. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

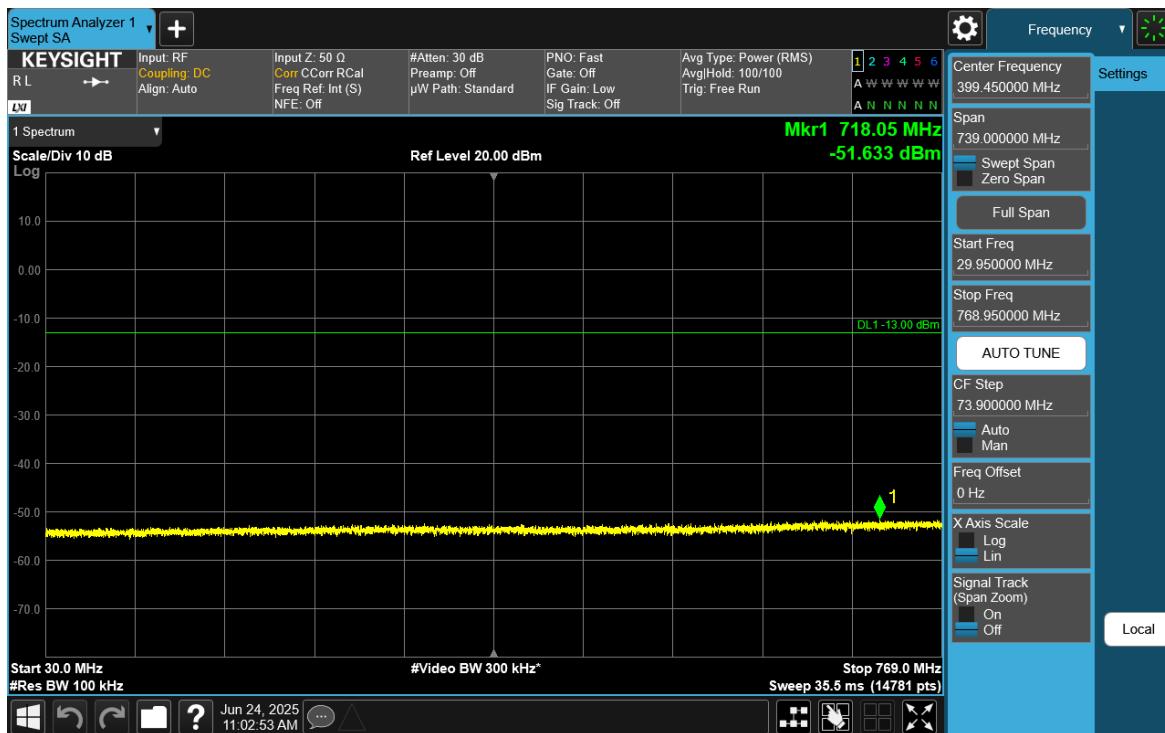


**Plot 7-57. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

FCC ID: BCG-A3326	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 47 of 96	

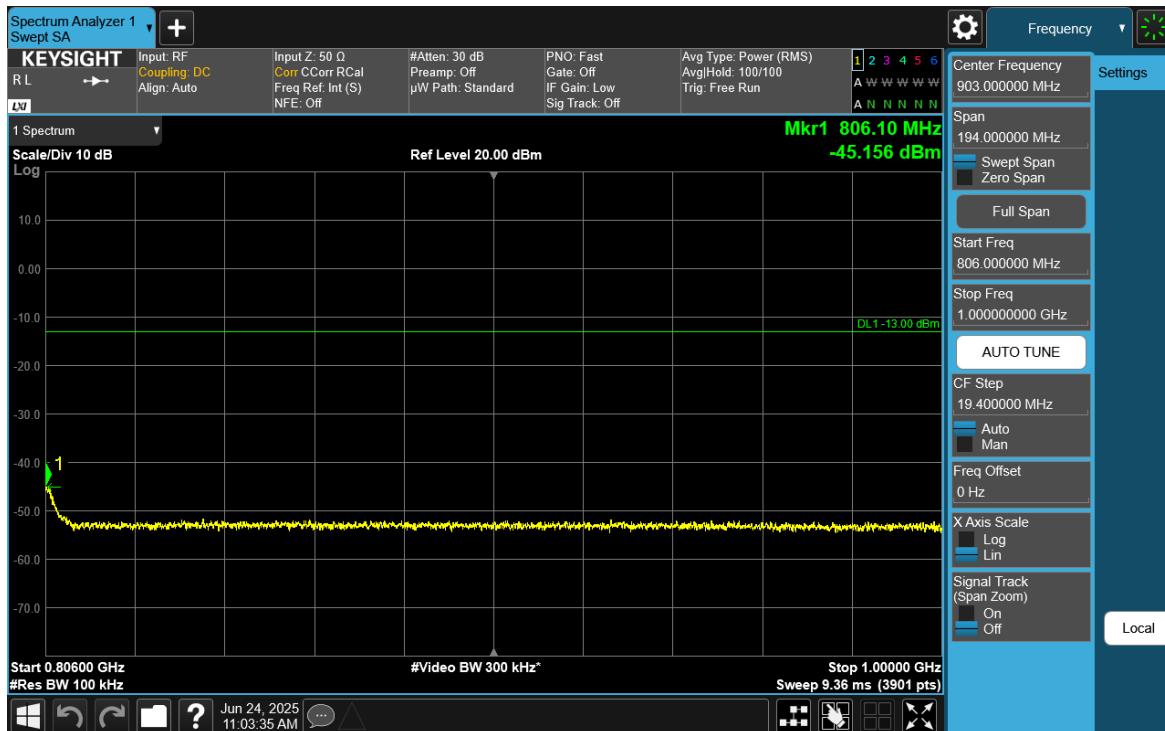


**Plot 7-58. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

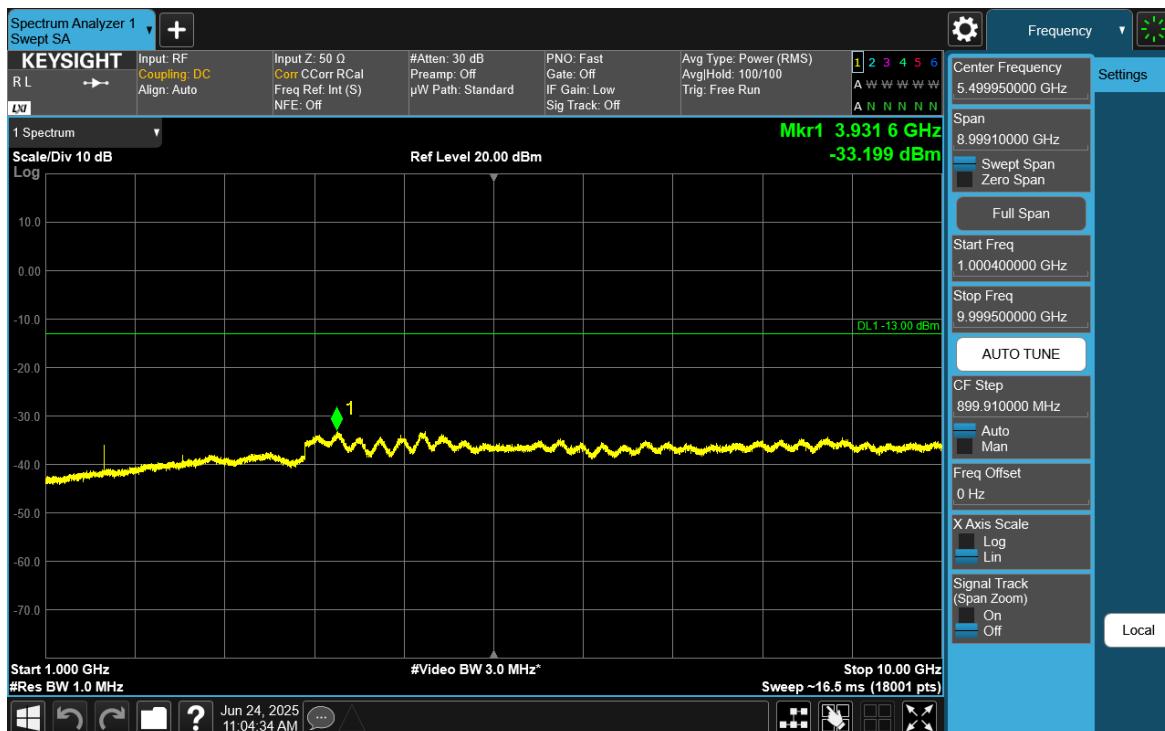


**Plot 7-59. Conducted Spurious Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3326	 <b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 48 of 96



**Plot 7-60. Conducted Spurious Plot (NR Band n14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 – Mid Channel)**



**Plot 7-61. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3326	PART 90 MEASUREMENT REPORT		
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Approved by: Technical Manager