



## Element Materials Technology

(formerly PCTEST)

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## PART 90 MEASUREMENT REPORT

**Applicant Name:**

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

**Date of Testing:**

01/31/2025 - 07/21/2025

**Test Report Issue Date:**

8/1/2025

**Test Site/Location:**

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:**

1C2503270033-05.BCG

**FCC ID:****BCG-A3337****Applicant Name:****Apple Inc.****Application Type:**

Certification

**Model:**

A3337, A3453

**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



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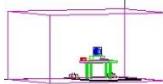
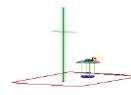
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	OBW [MHz]	Max. Power [mW]	Max. Power [dBm]	Emission Designator
LTE Band 26	1.4 MHz	QPSK	814.7 - 823.3	Conducted	1.0956	371.535	25.70	1M10G7W
		16QAM	814.7 - 823.3	Conducted	1.1086	293.089	24.67	1M11D7W
	3 MHz	QPSK	815.5 - 822.5	Conducted	2.7151	353.997	25.49	2M72G7W
		16QAM	815.5 - 822.5	Conducted	2.7135	292.415	24.66	2M71D7W
	5 MHz	QPSK	816.5 - 821.5	Conducted	4.5480	363.915	25.61	4M55G7W
		16QAM	816.5 - 821.5	Conducted	4.5205	289.068	24.61	4M52D7W
	10 MHz	QPSK	819.0	Conducted	9.0208	358.922	25.55	9M02G7W
		16QAM	819.0	Conducted	5.0959	288.403	24.60	5M10D7W
LTE Band 14	5 MHz	QPSK	790.5 - 795.5	ERP	4.5233	0.432	-3.65	4M52G7W
		16QAM	790.5 - 795.5	ERP	4.5235	0.338	-4.71	4M52D7W
	10 MHz	QPSK	793.0	ERP	9.0578	0.419	-3.78	9M06G7W
		16QAM	793.0	ERP	5.0710	0.321	-4.94	5M07D7W
NR Band n14	5 MHz	$\pi/2$ BPSK	790.5 - 795.5	ERP	4.4719	0.400	-3.98	4M47G7W
		QPSK	790.5 - 795.5	ERP	4.4699	0.400	-3.98	4M47G7W
		16QAM	790.5 - 795.5	ERP	4.4875	0.310	-5.08	4M49D7W
		64QAM	790.5 - 795.5	ERP	4.4872	0.245	-6.10	4M49D7W
	10 MHz	$\pi/2$ BPSK	793.0	ERP	8.9902	0.386	-4.13	8M99G7W
		QPSK	793.0	ERP	8.9368	0.400	-3.98	8M94G7W
		16QAM	793.0	ERP	8.9287	0.317	-4.99	8M93D7W
		64QAM	793.0	ERP	8.8952	0.237	-6.25	8M90D7W
NR Band n26	5 MHz	$\pi/2$ BPSK	816.5-821.5	Conducted	4.4734	341.979	25.34	4M47G7W
		QPSK	816.5-821.5	Conducted	4.4892	344.350	25.37	4M49G7W
		16QAM	816.5-821.5	Conducted	4.4785	276.058	24.41	4M48D7W
		64QAM	816.5-821.5	Conducted	4.4775	220.293	23.43	4M48D7W
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	8.9610	343.558	25.36	8M96G7W
		QPSK	819.0	Conducted	8.9827	347.536	25.41	8M98G7W
		16QAM	819.0	Conducted	8.9540	267.301	24.27	8M95D7W
		64QAM	819.0	Conducted	8.9384	217.771	23.38	8M94D7W

## EUT Overview

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## 1.0 INTRODUCTION

### 1.1 Scope

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

### 1.2 Element Materials Technology Morgan Hill Test Location

These measurement tests were conducted at the Element Materials Technology Morgan Hill 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

- Element Materials Technology Morgan Hill 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 Morgan Hill 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).

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID: BCG-A3337**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 90.

**Test Device Serial No.:** C9JHC7N704, KG9TVFMGJC, JRRXH474CW, DLCHG1000VY0000TX8.  
DLCHG0000P40000TX7

### 2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE, 5G NR (FR1), 802.11b/g/n WLAN, 802.11a/n UNII, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), 802.15.4ab-NB, NFC, UWB, 60.5GHz Transmitter

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	802.15.4ab - NB	LTE/FR1	UNII	UWB
	802.11b/g/n	BDR, EDR, HDR4/8, LE12M	O-QPSK	Mid/High Band	802.11a/n	Ch.5/Ch.9
Config 1	✓	✗	✗	✓	✗	✓
Config 2	✗	✓	✗	✓	✗	✓
Config 3	✗	✓	✓	✓	✗	✗
Config 4	✓	✗	✓	✓	✗	✗
Config 5	✗	✓	✗	✓	✓	✗
Config 6	✗	✓	✗	✓	✗	✓
Config 7	✓	✗	✗	✓	✗	✗
Config 8	✓	✗	✓	✗	✗	✗
Config 9	✓	✗	✗	✗	✗	✓
Config 10	✗	✓	✗	✗	✓	✗
Config 11	✗	✓	✗	✓	✗	✗
Config 12	✗	✓	✓	✗	✗	✗
Config 13	✗	✓	✗	✗	✗	✓
Config 14	✗	✗	✓	✓	✗	✗
Config 15	✗	✗	✗	✓	✓	✗
Config 16	✗	✗	✗	✓	✗	✓

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 5 and reported in RF Bluetooth, RF UNII OFDM, and RF FCC Part 27b test reports.

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## 2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

Band	Antenna Gain [dBi]
	Antenna BCM
LTE Band 26	-25.4
NR Band n26	
LTE Band 14	-27.2
NR Band n14	

Table 2-2. Highest Antenna Gain

## 2.4 Test Support Equipment

Test Support Equipment					
1	Apple Macbook	Model: A1398	S/N: FVFDHG8TP3XY		
	w/AC/DC Adapter	Model: A1435	S/N: N/A		
2	Apple USB-C cable	Model: N/A	S/N: N/A		
	w/ Charging Dock	Model: A3276	S/N: DQ84112016A08V22V		
	w/ Cradle	Model: N/A	S/N: CYV4225004D23LE01MEVR		
3	Apple Magnetic Charger	Model: A2515	S/N: DLC313306ZQ1NR1A7		
	Apple Magnetic Charger	Model: A2879	S/N: DLCH5T0012A00000WB		
4	Pathfinder Davenport	Model: 920-15901-01	S/N: DLCH640006H0000QA0		
	SiP Socket	Model: P1 N22X B PF 196	S/N: DLCH8J000LH0000WXE		
5	DC Power Supply	Model: KPS3010D	S/N: N/A		

Table 2-3. Test Support Equipment

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## 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 all combinations of the two materials, aluminum, and titanium, and 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.

All possible simultaneous transmission configurations have been investigated and the worst case config has been reported.

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.

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## 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.

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## 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

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## 5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent 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.

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## 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.

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## 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.  
 FCC ID: BCG-A3337  
 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)	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
	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	Radiated Spurious Emissions (LTE Band 14)	2.1053, 90.543(e)	> $43 + 10 \log_{10} (P[\text{Watts}])$ 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-A3337	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 12 of 90

**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 Element 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-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 13 of 90

## 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

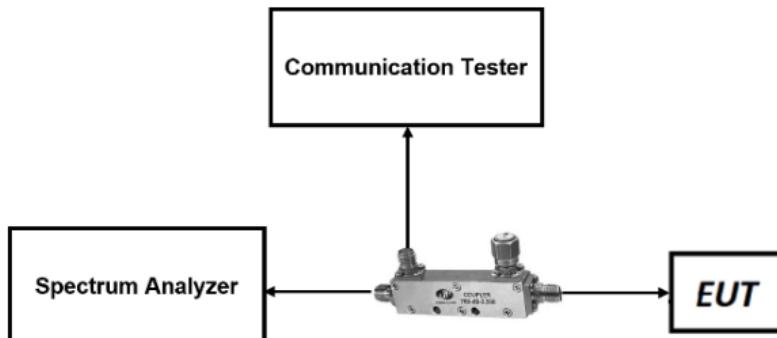
### Test Settings

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

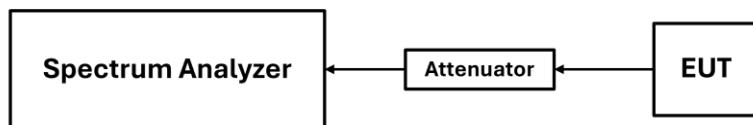
FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 14 of 90

## Test Setup

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



**Figure 7-1. LTE Test Instrument & Measurement Setup**



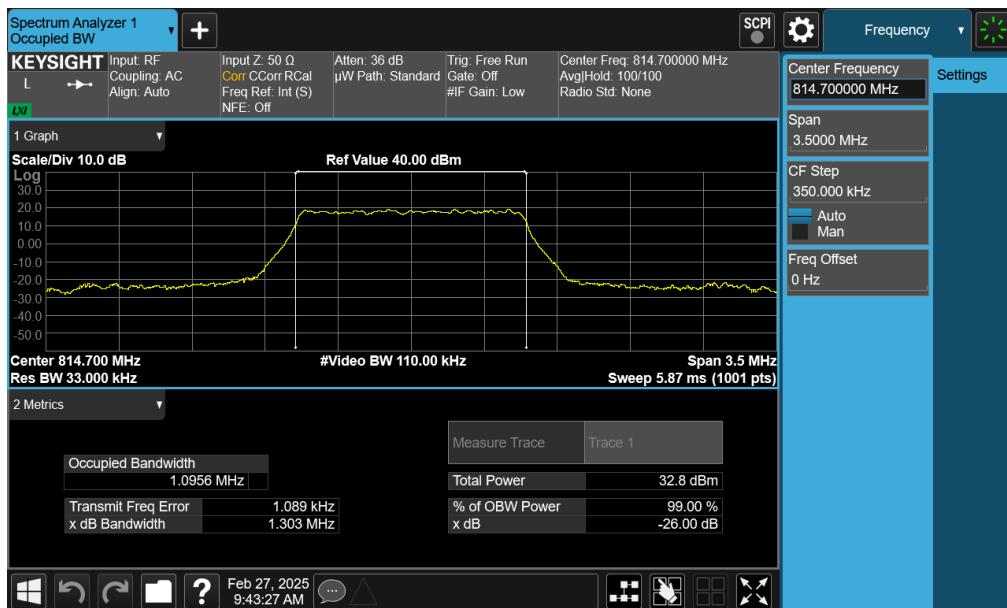
**Figure 7-2. FR1 Test Instrument & Measurement Setup**

## Test Notes

1. 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: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 15 of 90

## LTE Band 26



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

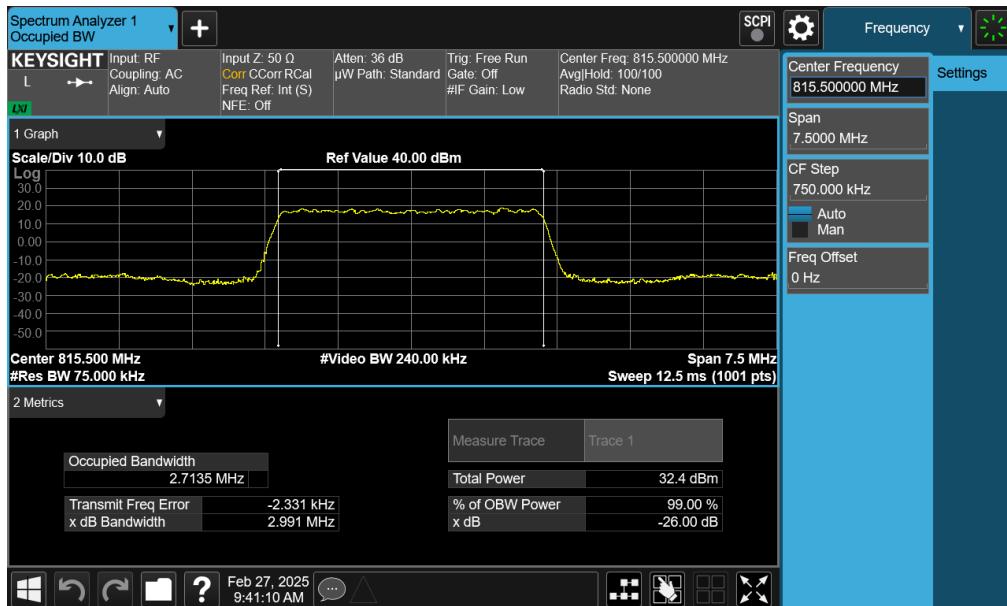


Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 16 of 90

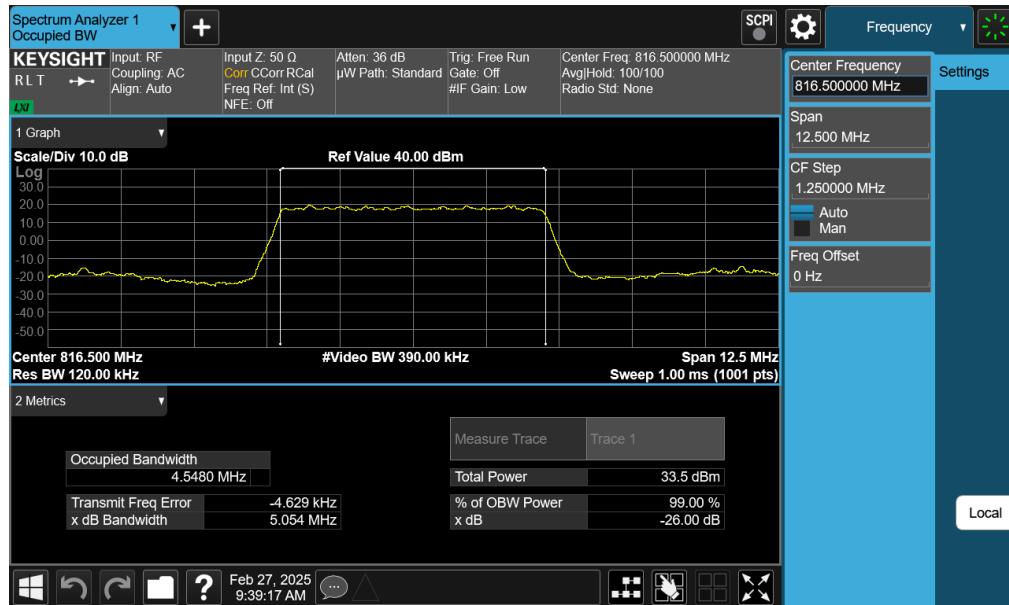


**Plot 7-3. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK - Full RB Configuration)**

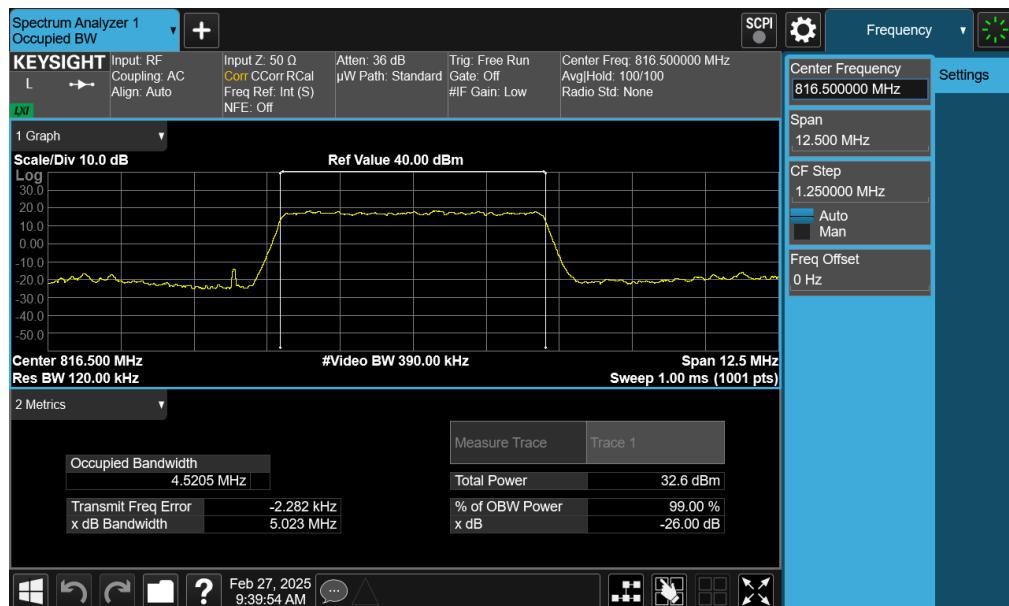


**Plot 7-4. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM - Full RB Configuration)**

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 17 of 90



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-A3337	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 18 of 90



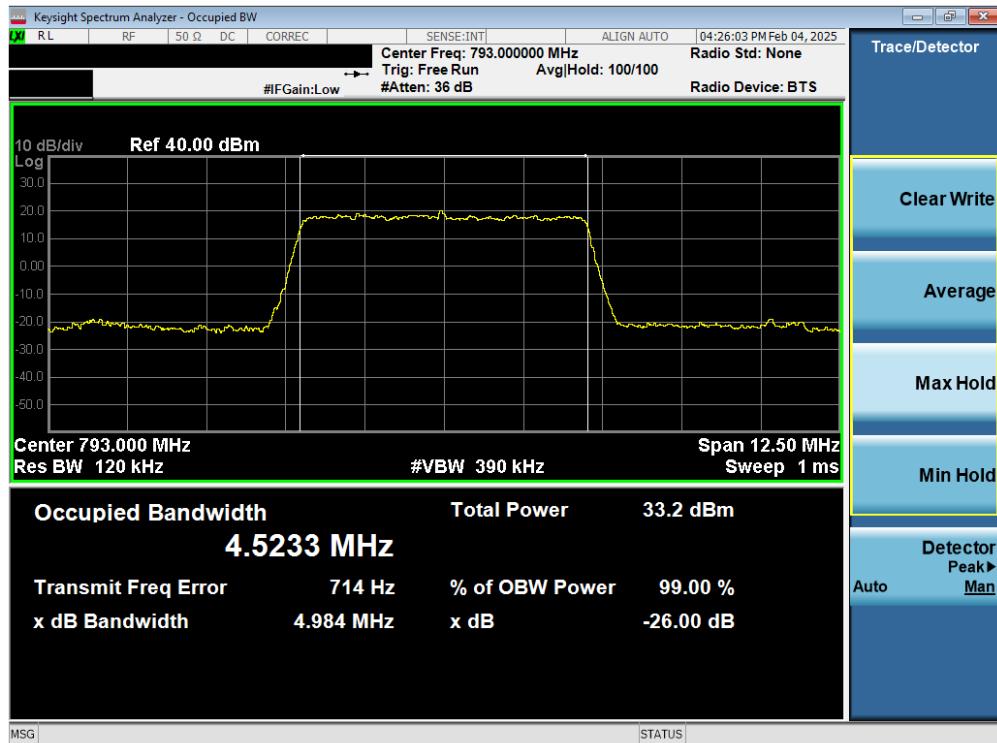
**Plot 7-7. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB Configuration)**



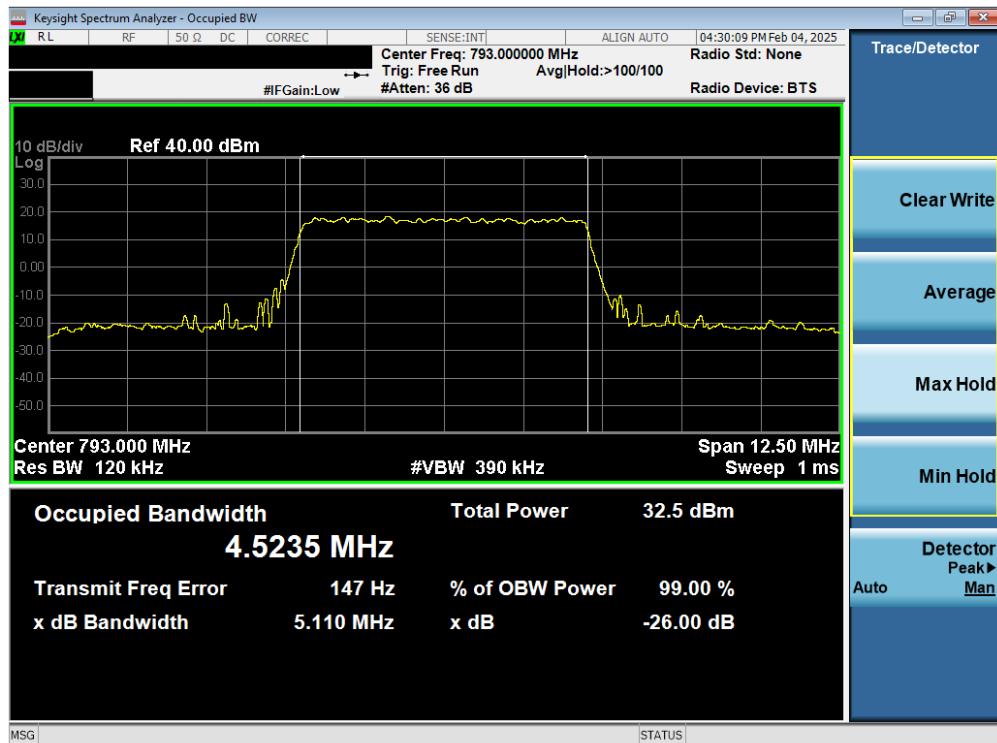
**Plot 7-8. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB Configuration)**

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 19 of 90

## LTE Band 14



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

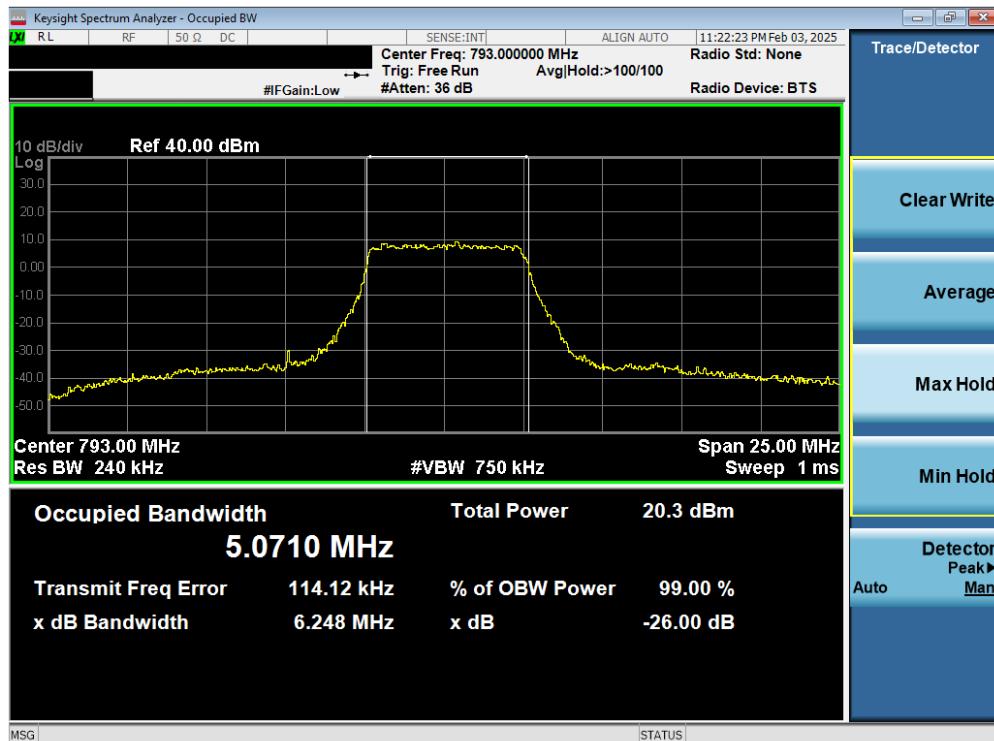


Plot 7-10. Occupied Bandwidth Plot (LTE Band 14 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3337		PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 20 of 90



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



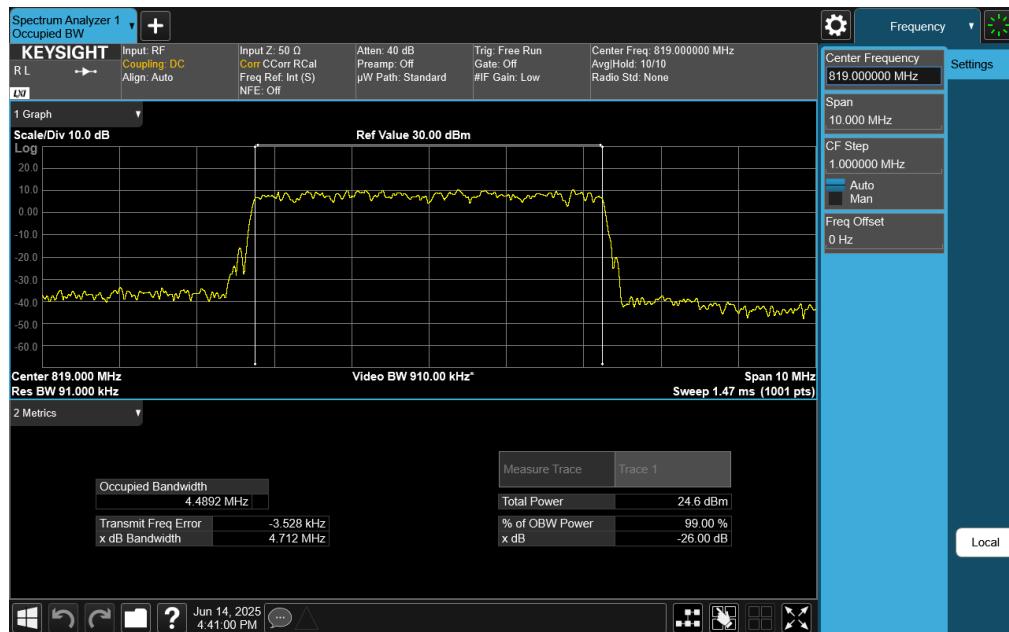
Plot 7-12. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3337	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 21 of 90	

## NR Band n26

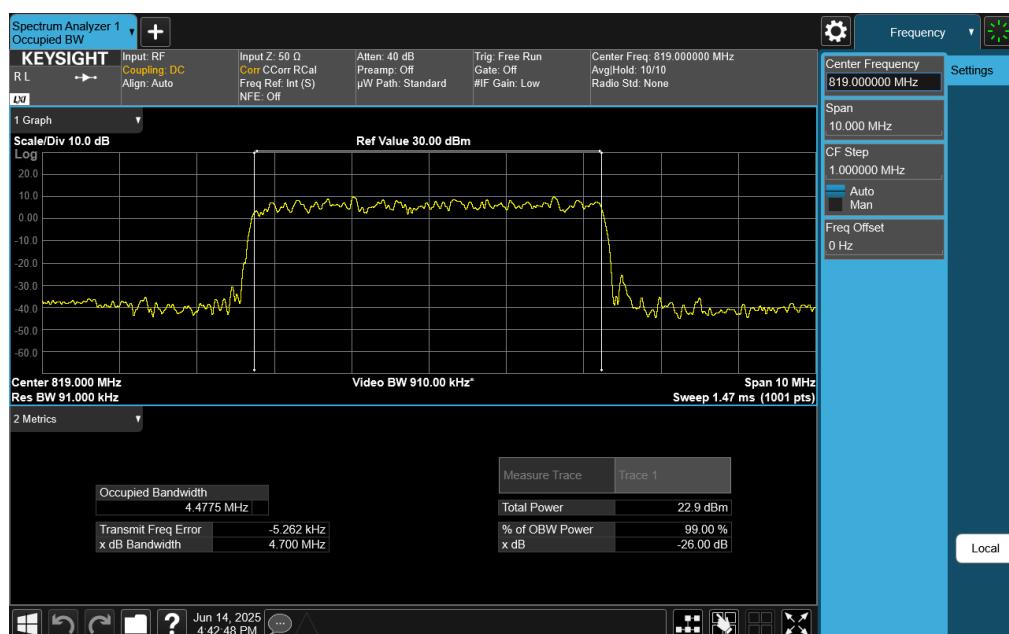
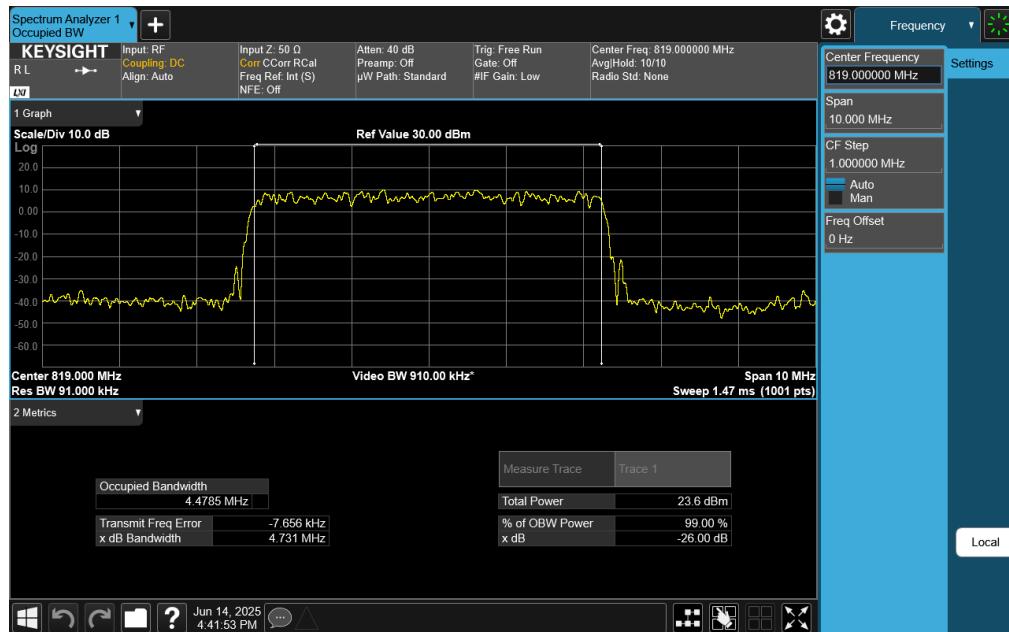


Plot 7-13. Occupied Bandwidth Plot (NR Band 26 - 5MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB Configuration)

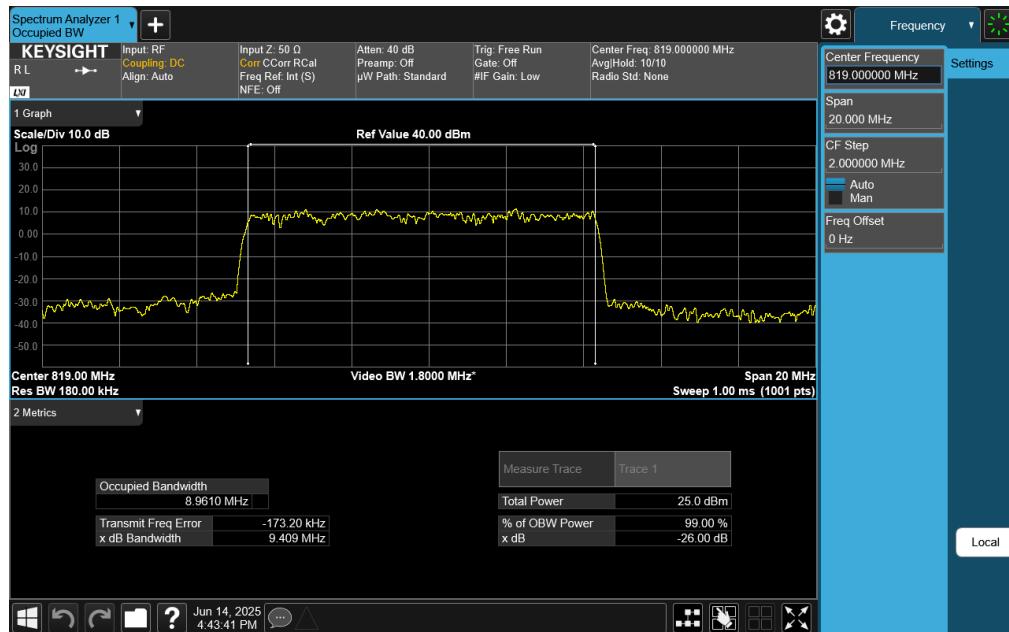


Plot 7-14. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM QPSK - Full RB Configuration)

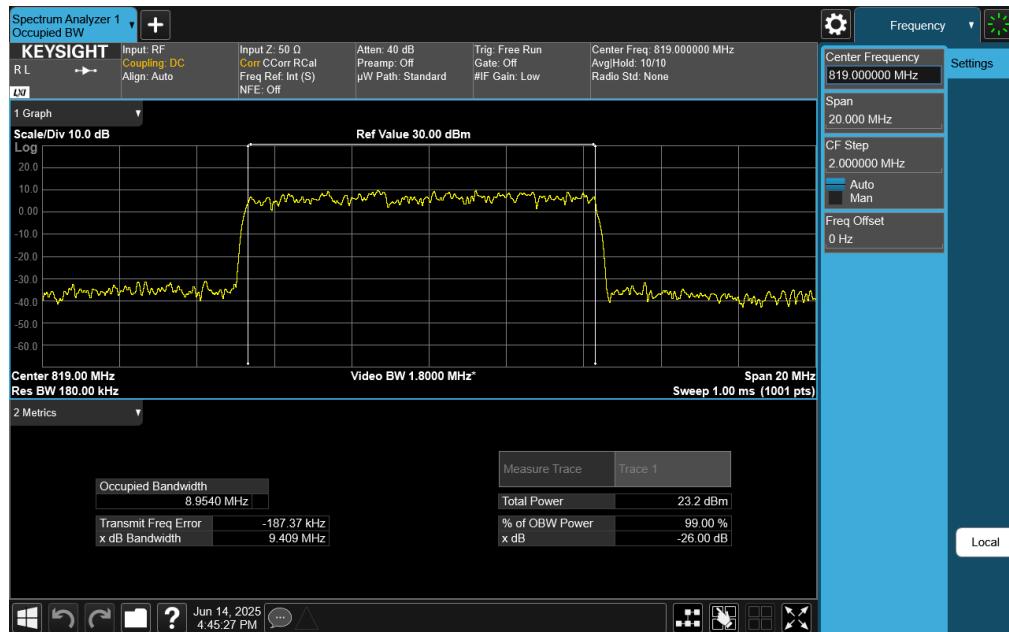
FCC ID: BCG-A3337	 element		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 22 of 90	



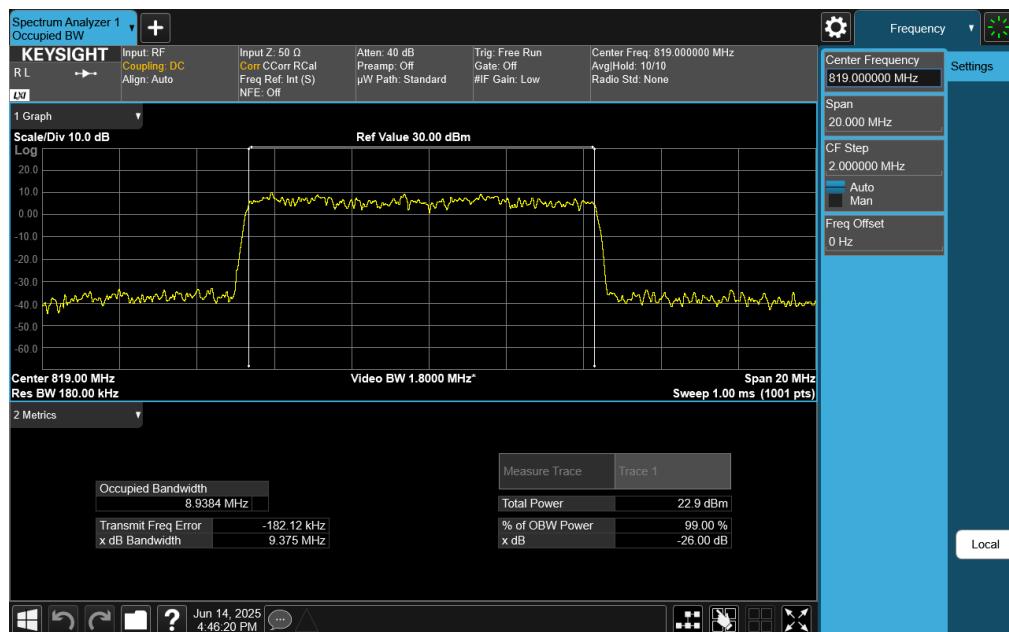
FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 23 of 90



FCC ID: BCG-A3337	<b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 24 of 90



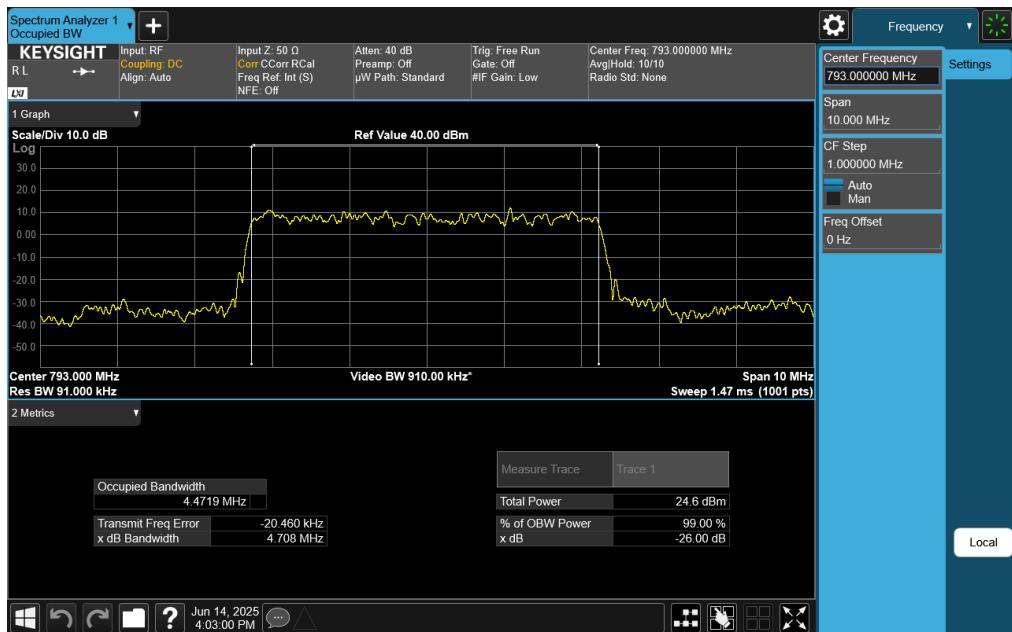
**Plot 7-19. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 16-QAM - Full RB Configuration)**



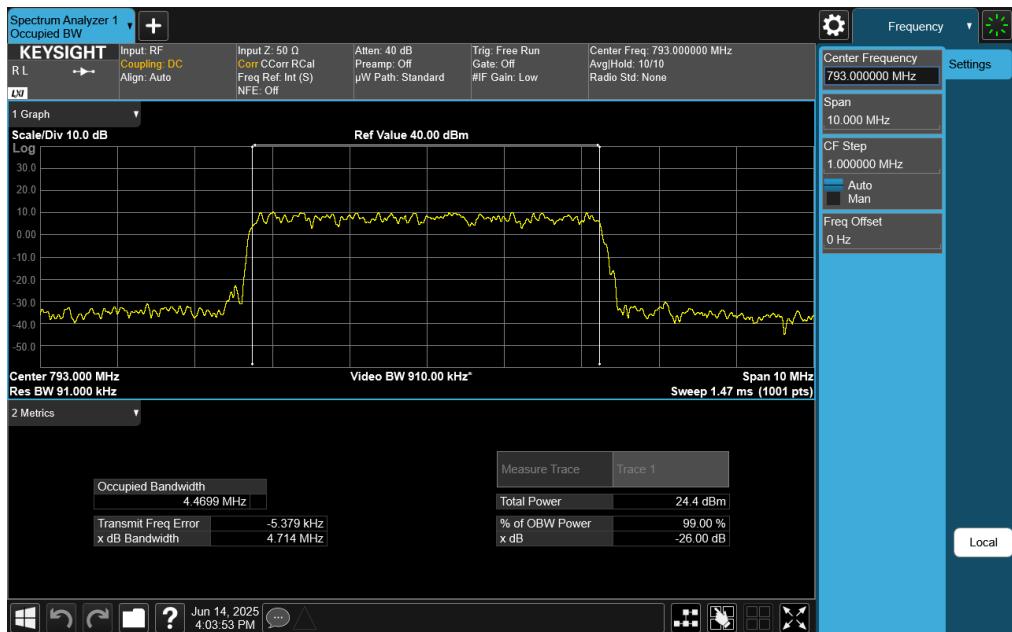
**Plot 7-20. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 64-QAM - Full RB Configuration)**

FCC ID: BCG-A3337	<b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 25 of 90

## NR Band n14

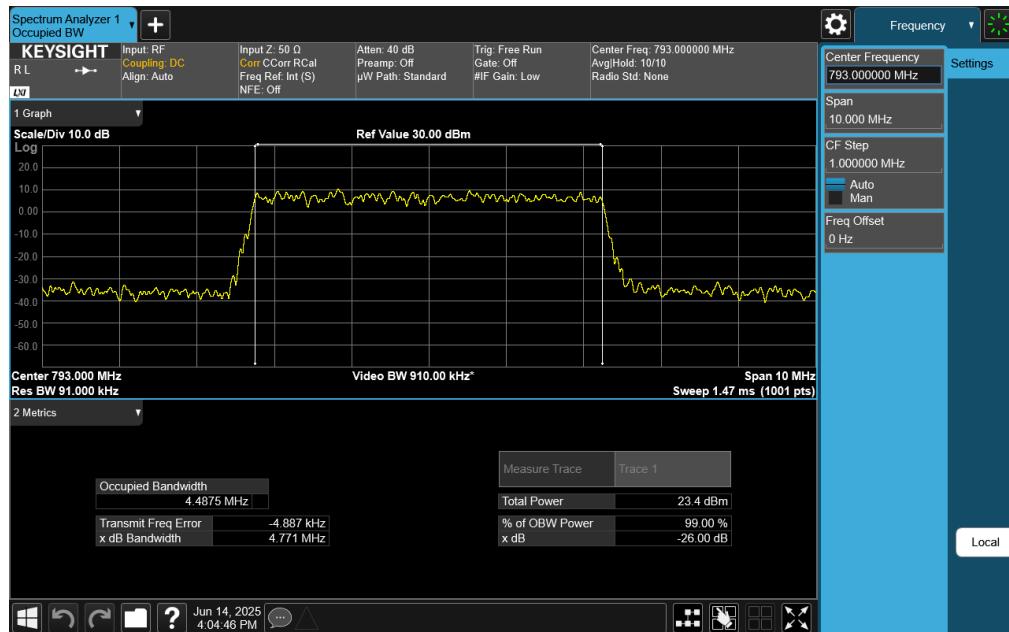


Plot 7-21. Occupied Bandwidth Plot (NR Band 14 - 5MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB Configuration)

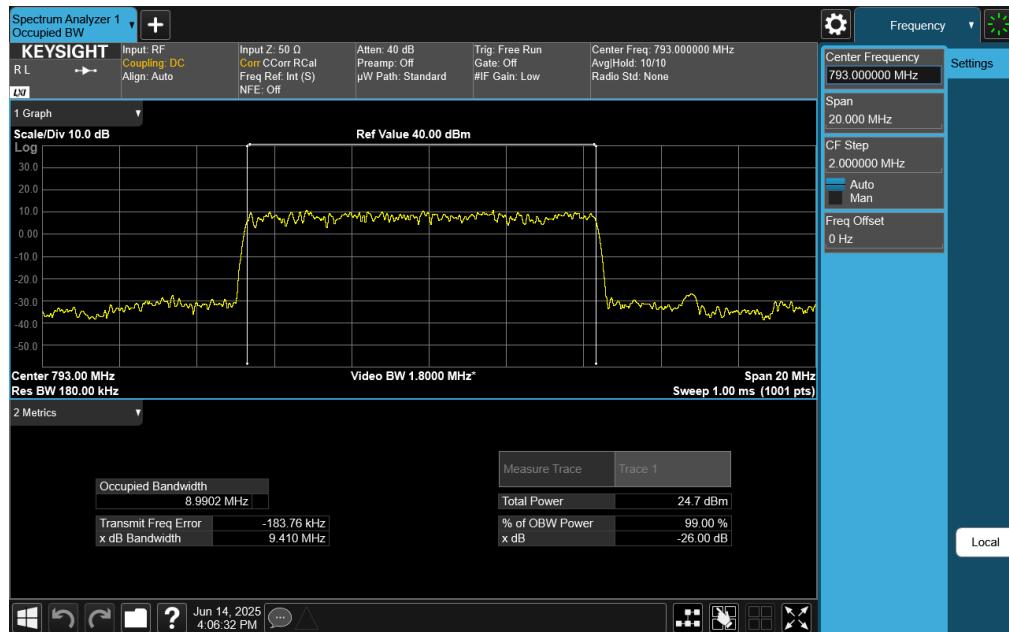


Plot 7-22. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM QPSK - Full RB Configuration)

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 26 of 90



FCC ID: BCG-A3337	 <b>element</b>		<b>PART 90 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch			Page 27 of 90

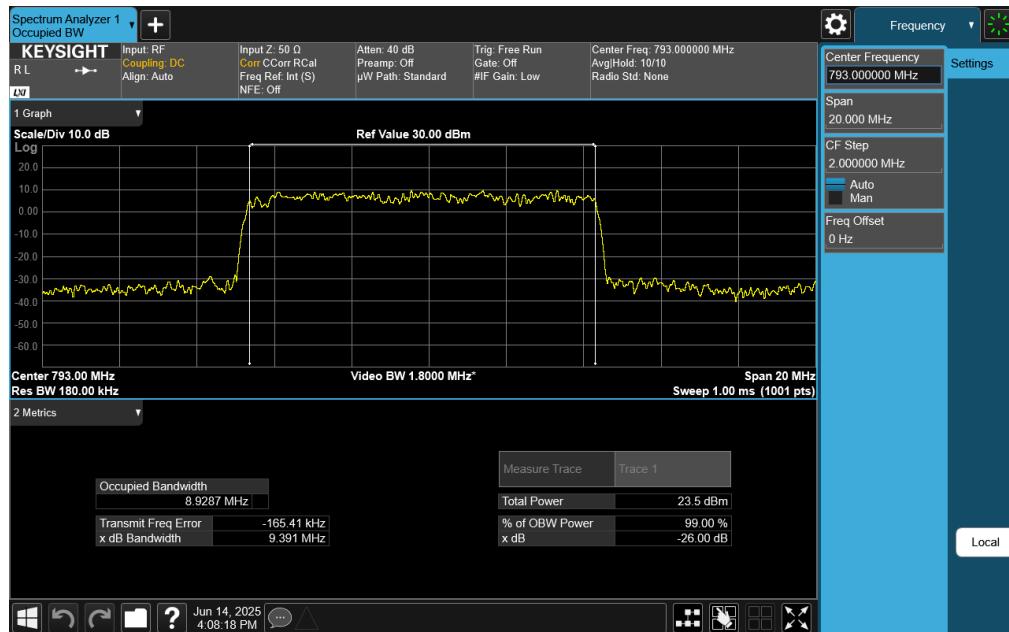


**Plot 7-25. Occupied Bandwidth Plot (NR Band 14 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB Configuration)**



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

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 28 of 90



FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 29 of 90

## 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

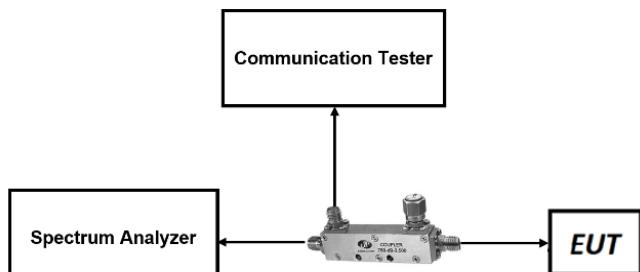
### Test Settings

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

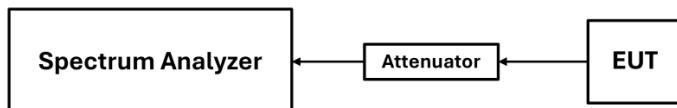
FCC ID: BCG-A3337	 element			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch			Page 30 of 90

## Test Setup

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



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



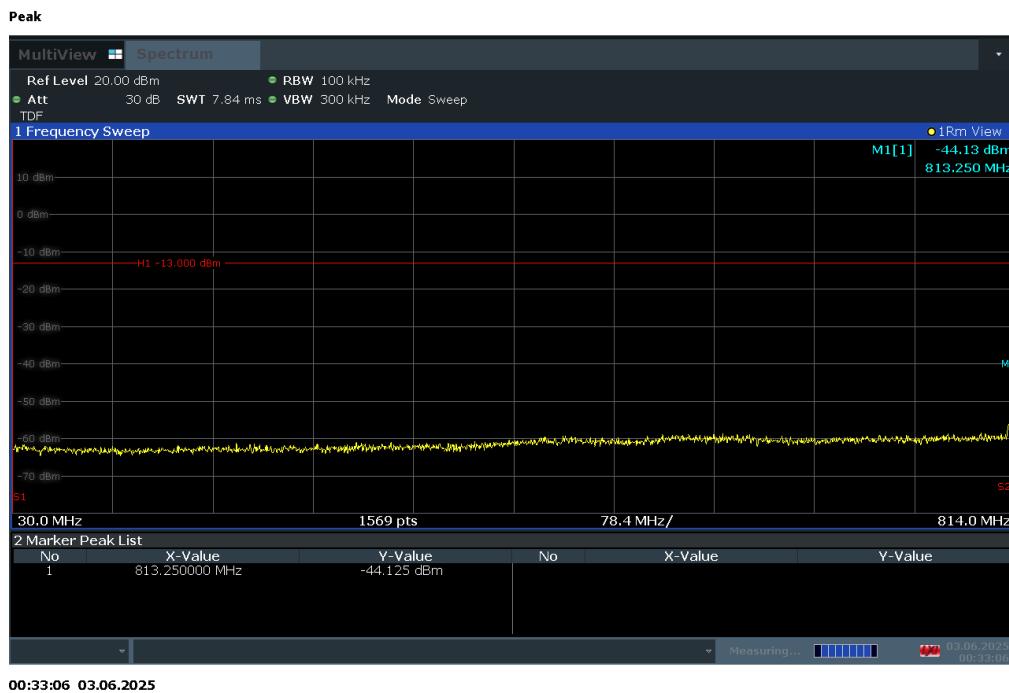
**Figure 7-4. FR1 Test Instrument & Measurement Setup**

## Test Notes

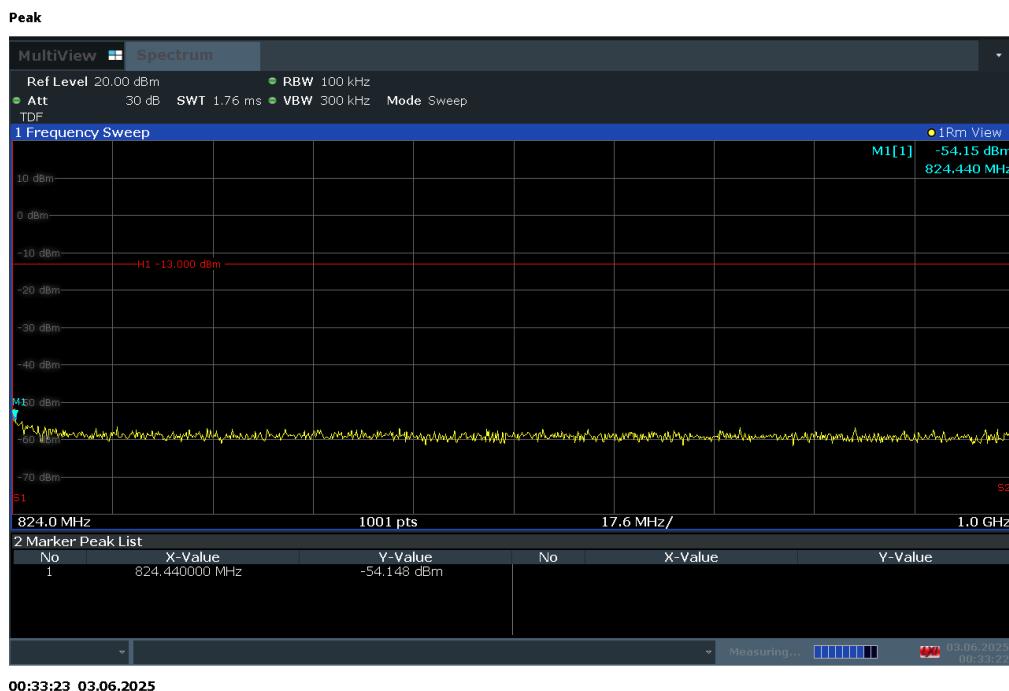
1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for Part 90. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission 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.
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: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 31 of 90

## LTE Band 26

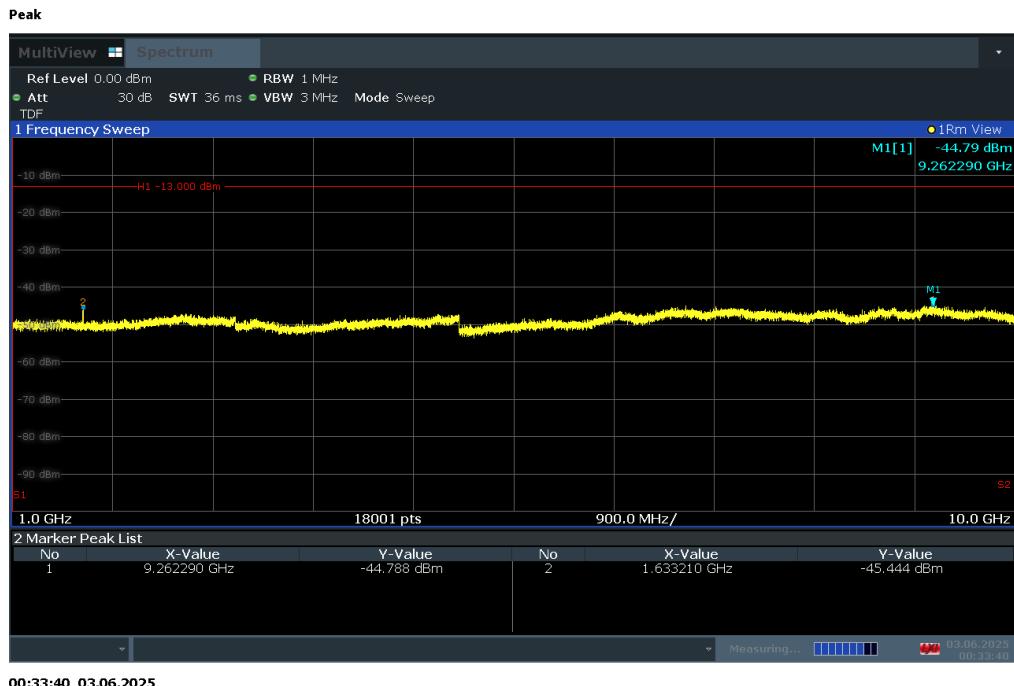


**Plot 7-29. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – Low Channel)**

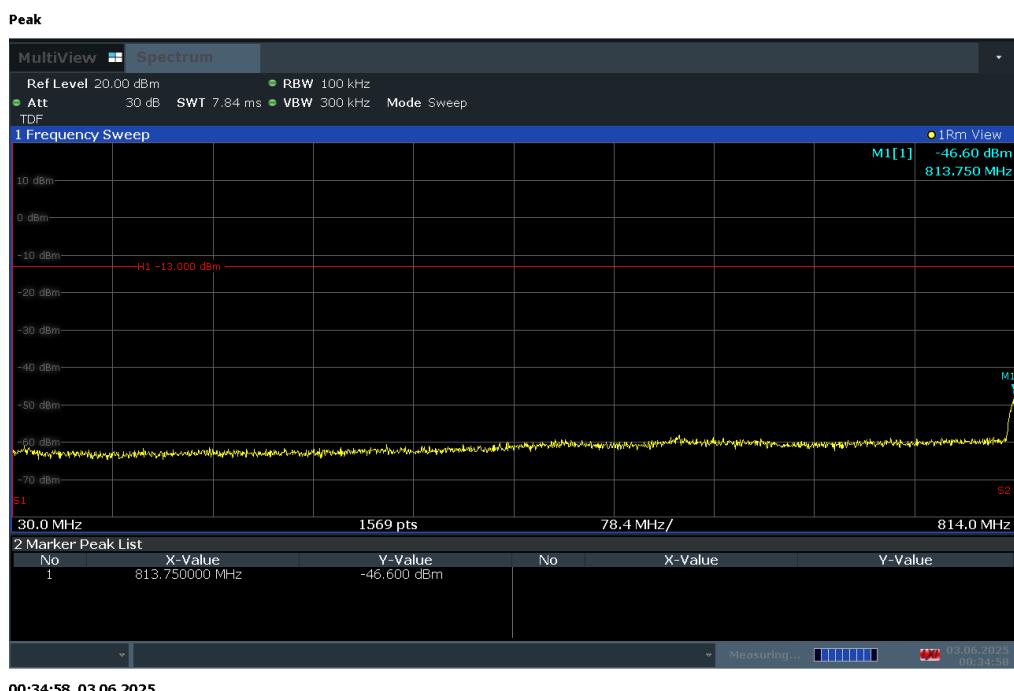


**Plot 7-30. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – Low Channel)**

FCC ID: BCG-A3337	 <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 32 of 90

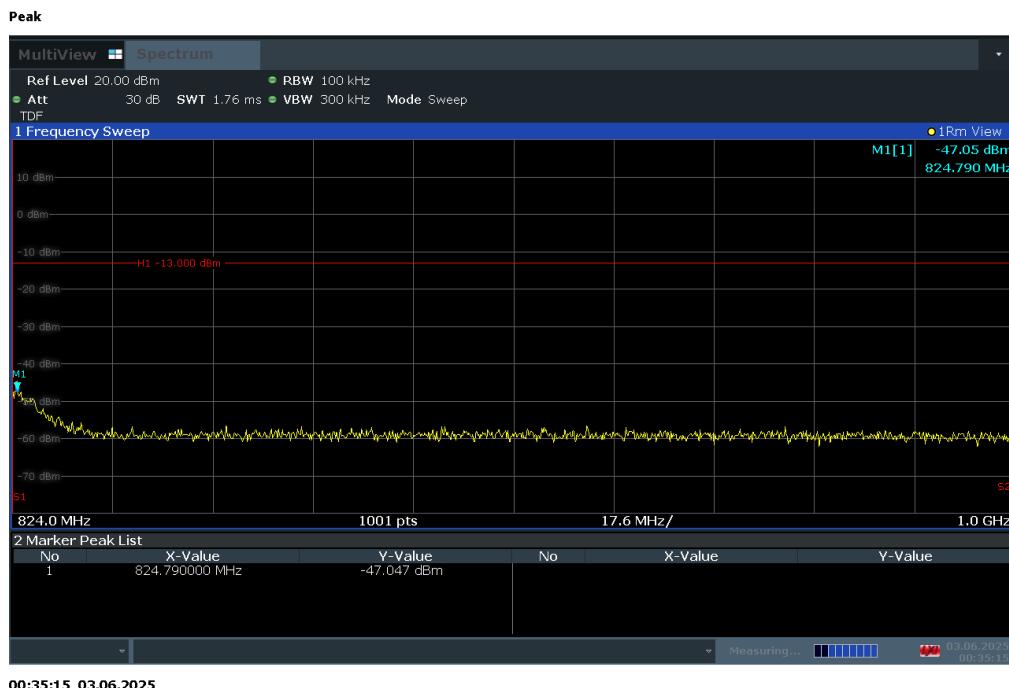


**Plot 7-31. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – Low Channel)**

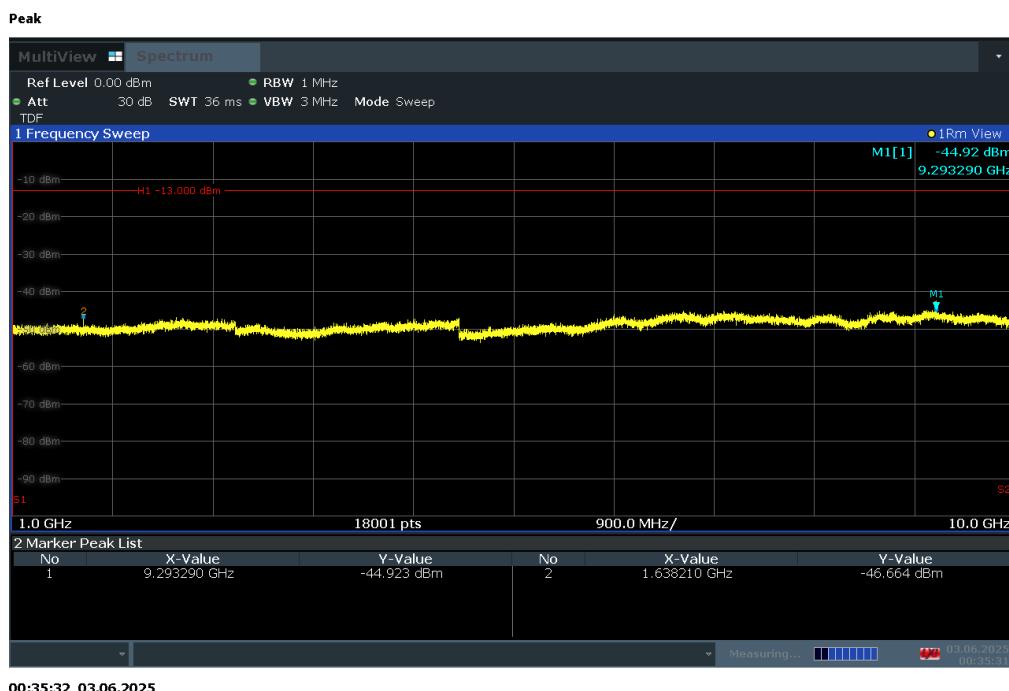


**Plot 7-32. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3337	 <b>element</b> <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 33 of 90	

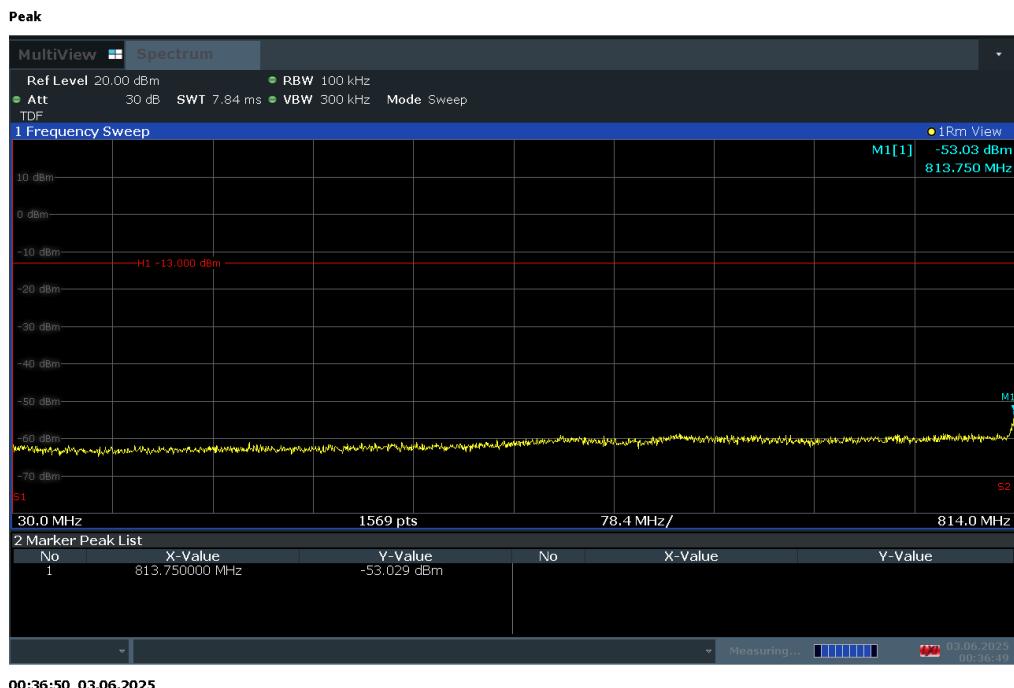


**Plot 7-33. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

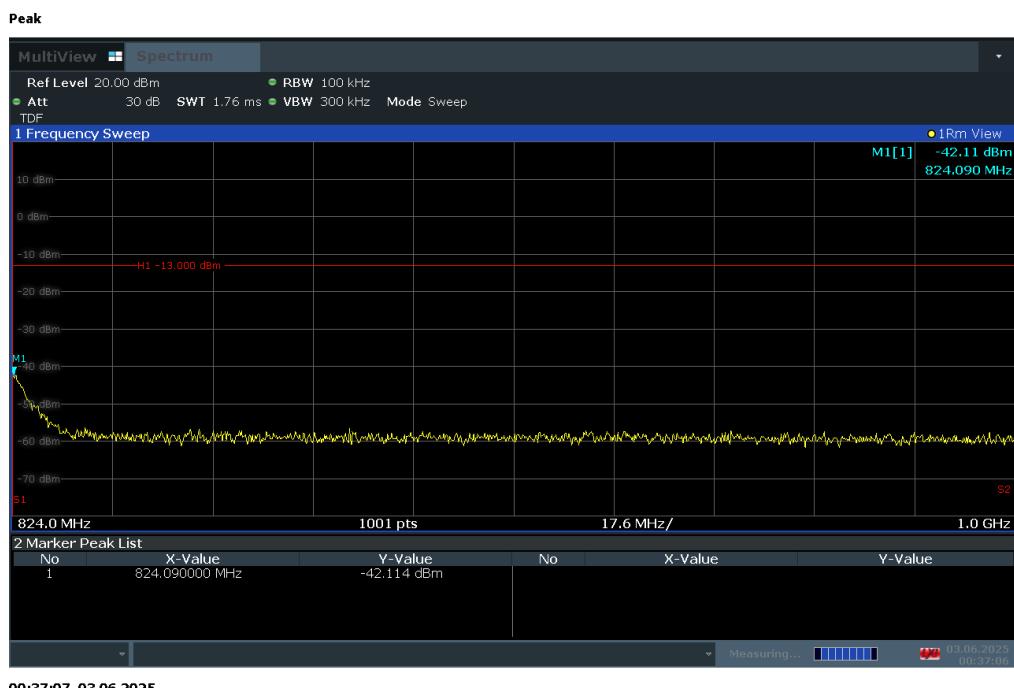


**Plot 7-34. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3337	 <b>element</b> <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 34 of 90	

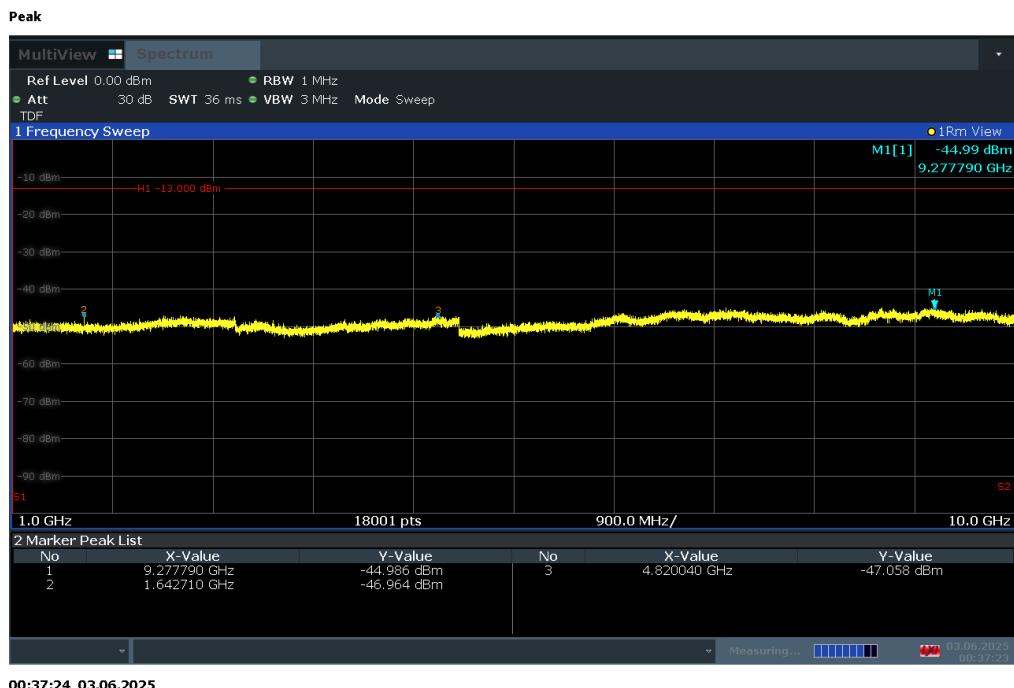


**Plot 7-35. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – High Channel)**



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

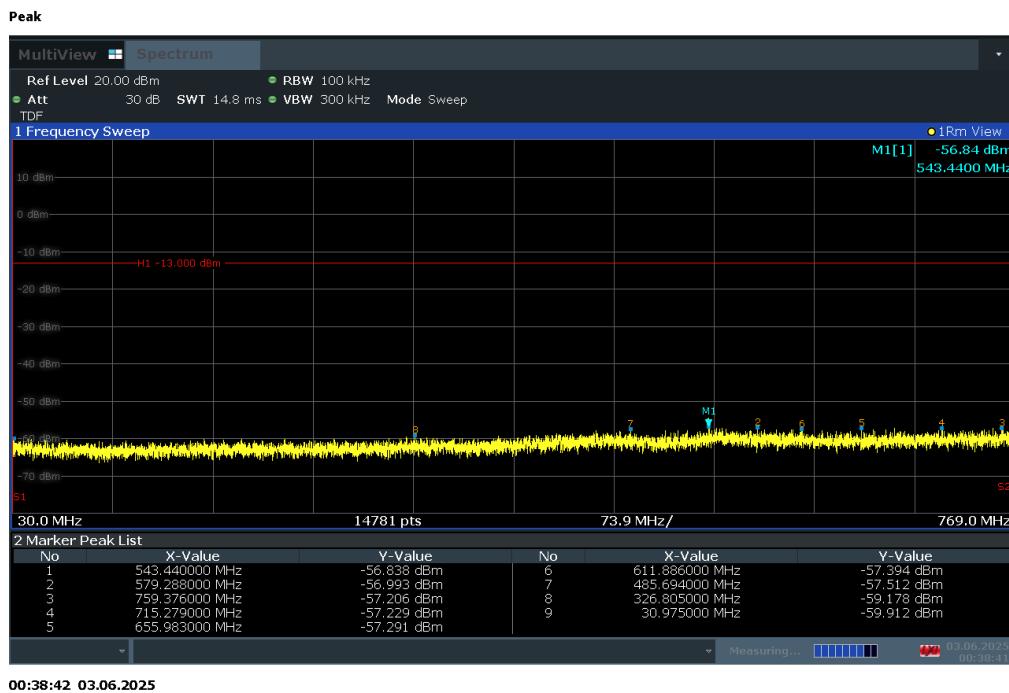
FCC ID: BCG-A3337	 <b>element</b> <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 35 of 90	



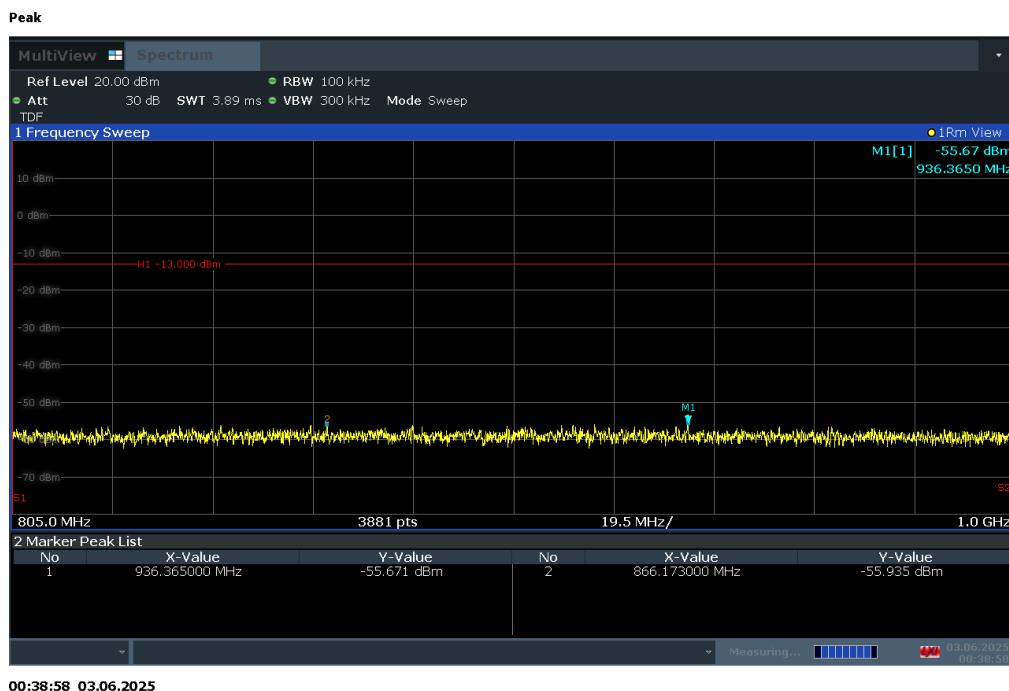
**Plot 7-37. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 12 – High Channel)**

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 36 of 90

## LTE Band 14

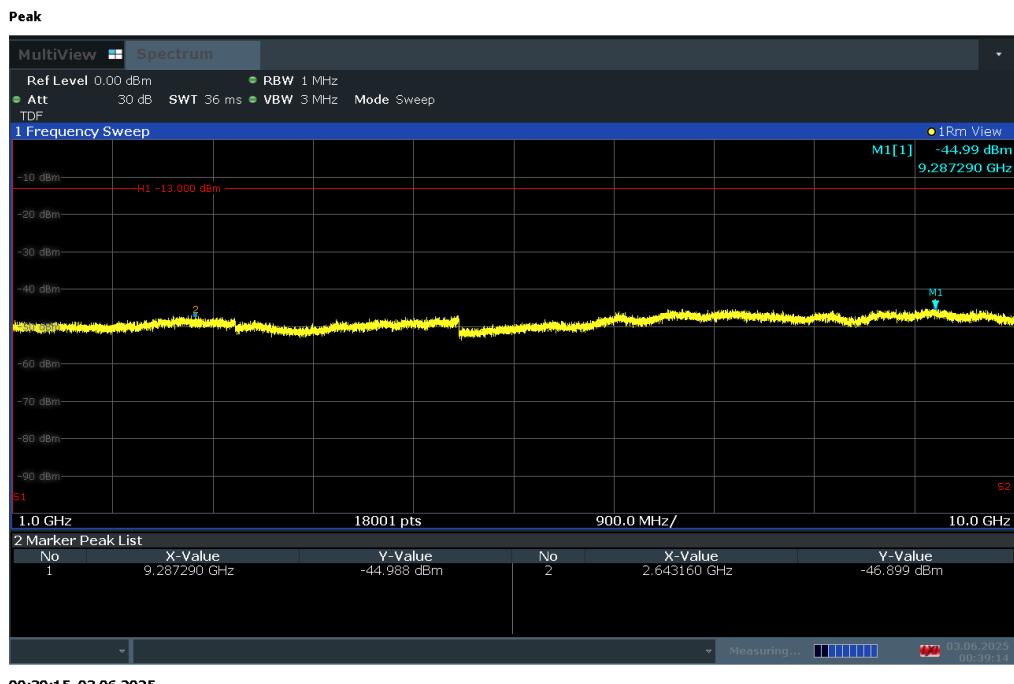


**Plot 7-38. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - Low Channel)**

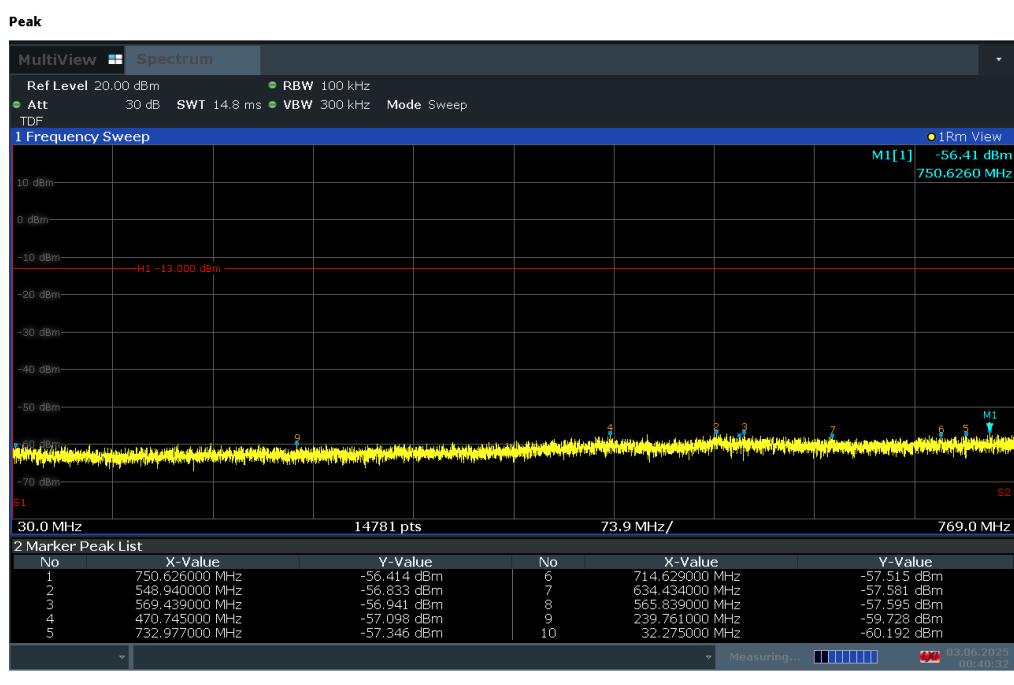


**Plot 7-39. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - Low Channel)**

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 37 of 90

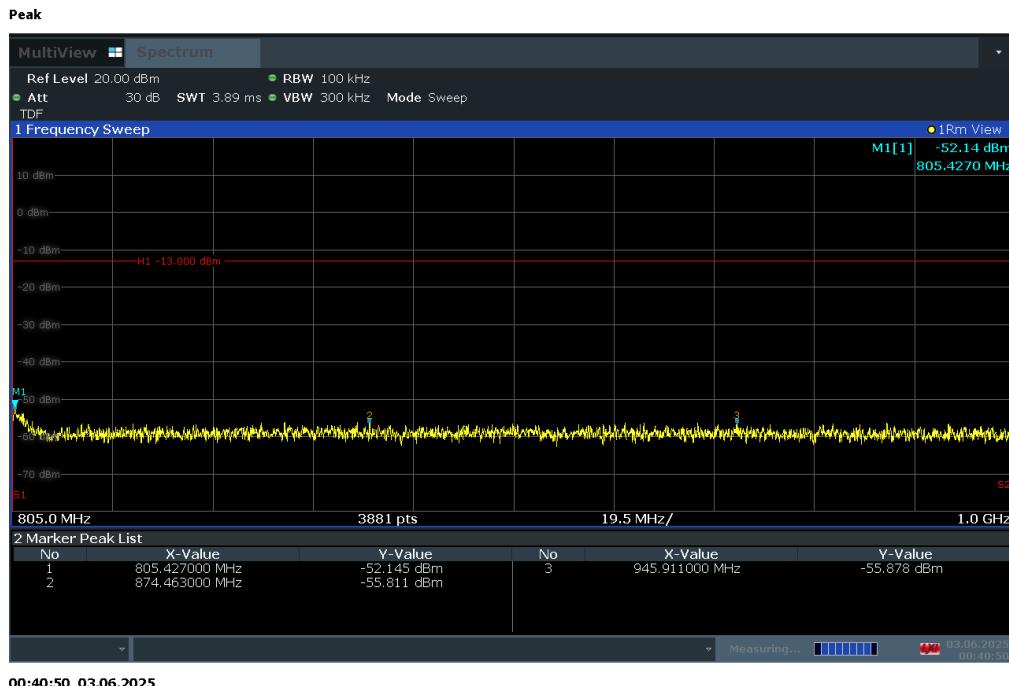


**Plot 7-40. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - Low Channel)**

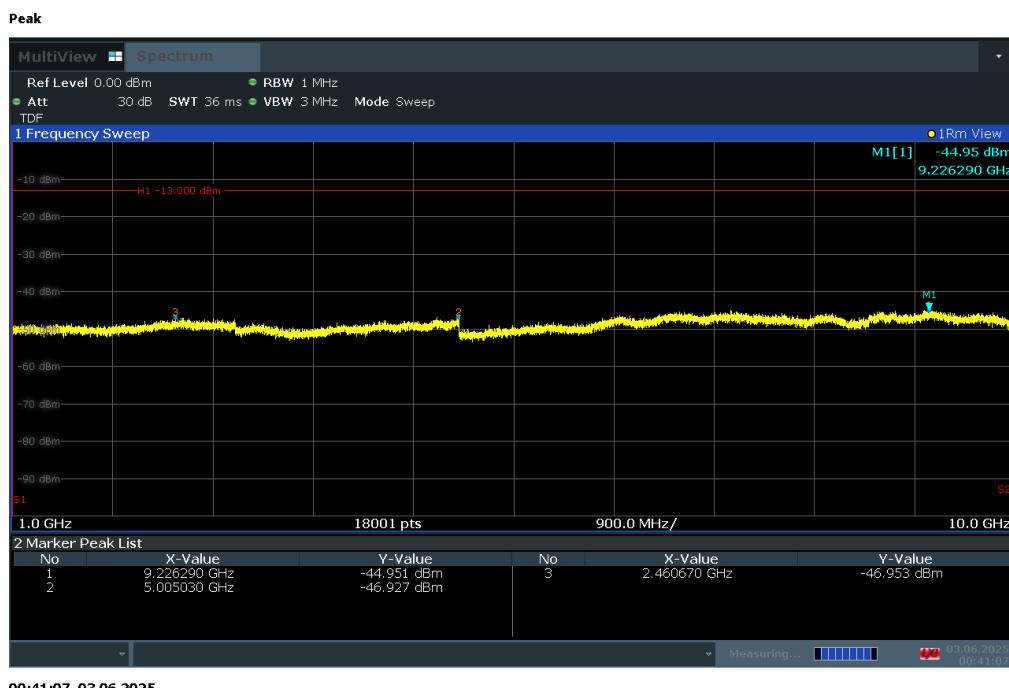


**Plot 7-41. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25)**

FCC ID: BCG-A3337	 <b>element</b> <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 38 of 90

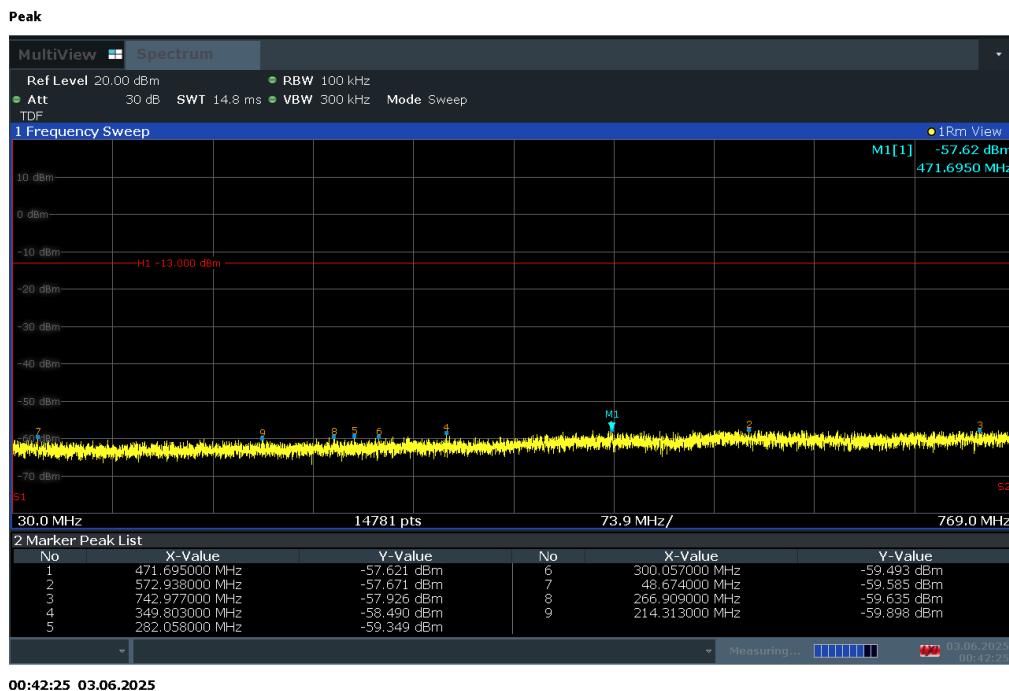


**Plot 7-42. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25)**

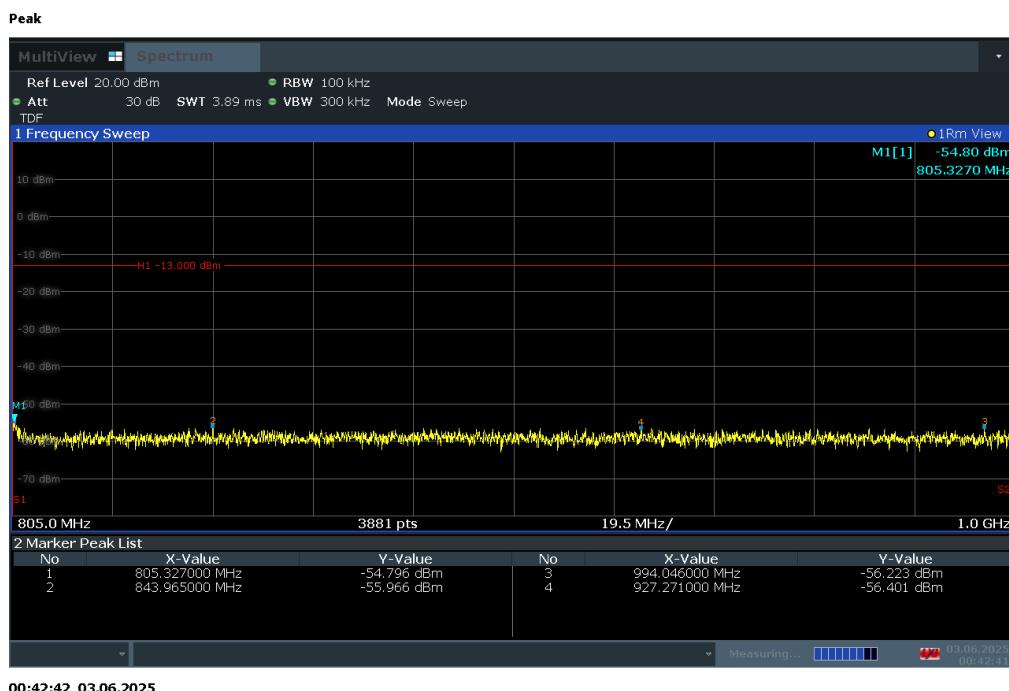


**Plot 7-43. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 25)**

FCC ID: BCG-A3337	element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 39 of 90	

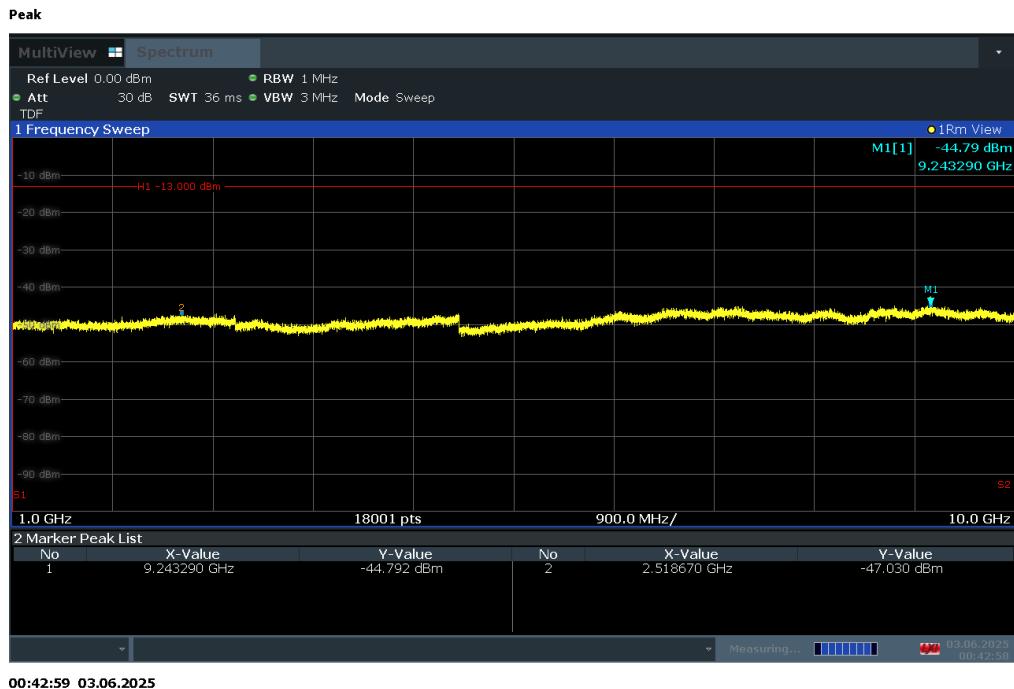


**Plot 7-44. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - High Channel)**



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

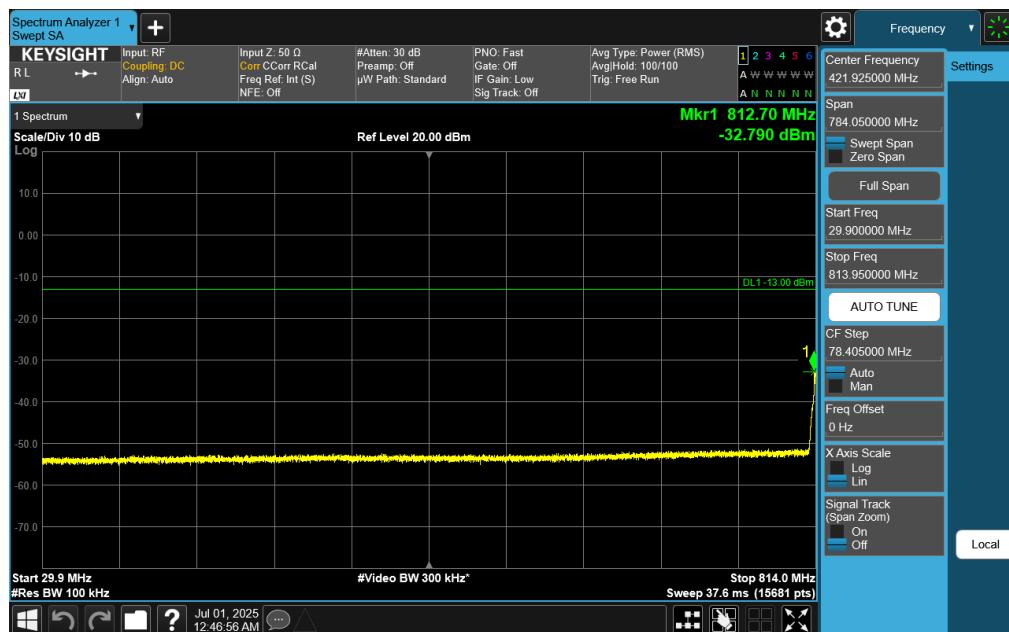
FCC ID: BCG-A3337	<b>element</b>	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 40 of 90	



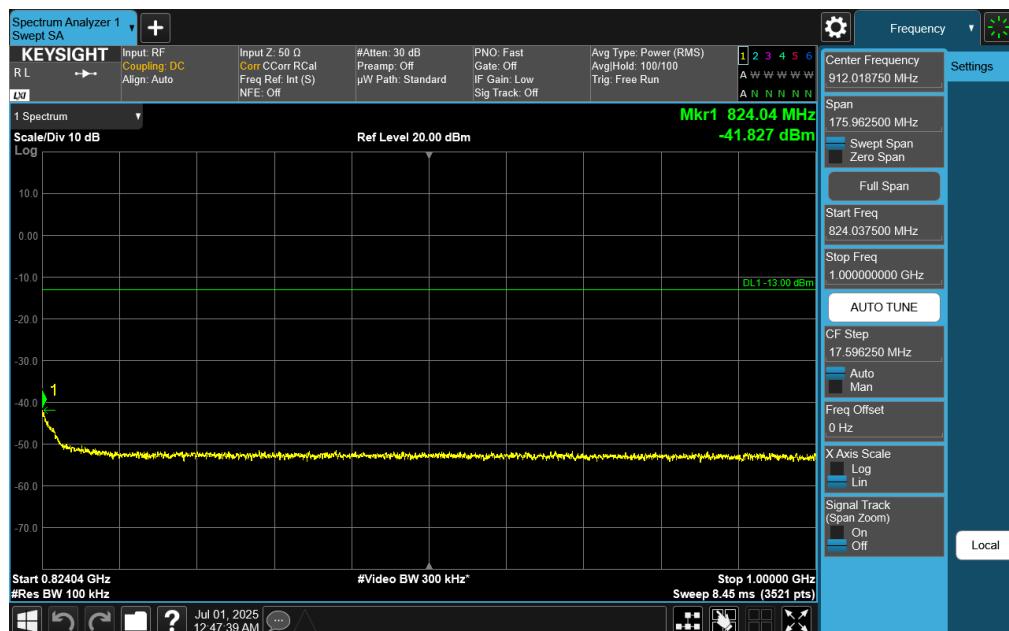
**Plot 7-46. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 12 - High Channel)**

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 41 of 90

## NR Band n26

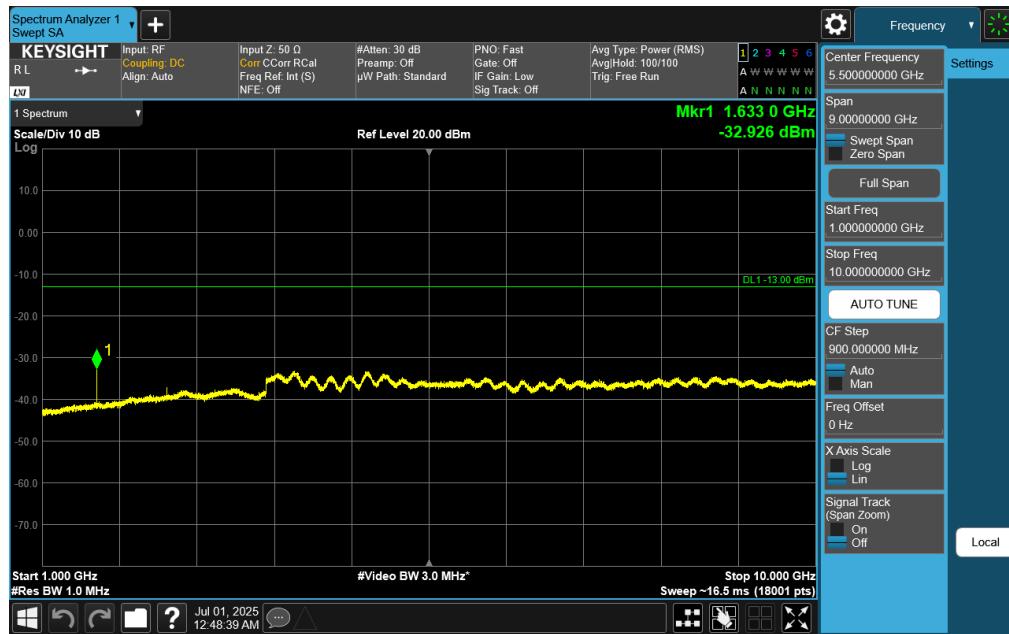


**Plot 7-47. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

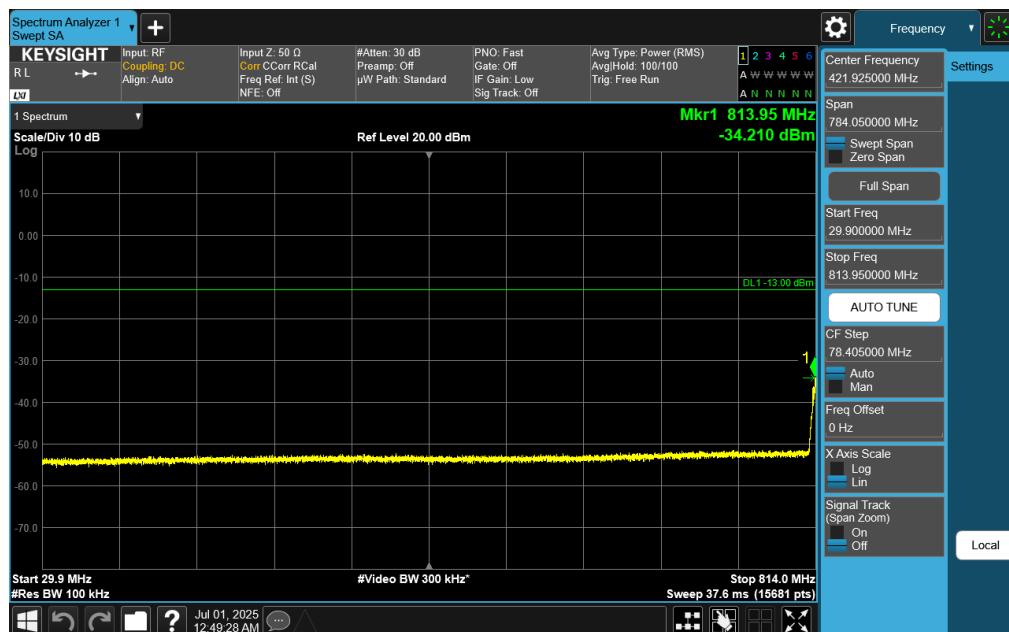


**Plot 7-48. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

FCC ID: BCG-A3337	 element	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 42 of 90

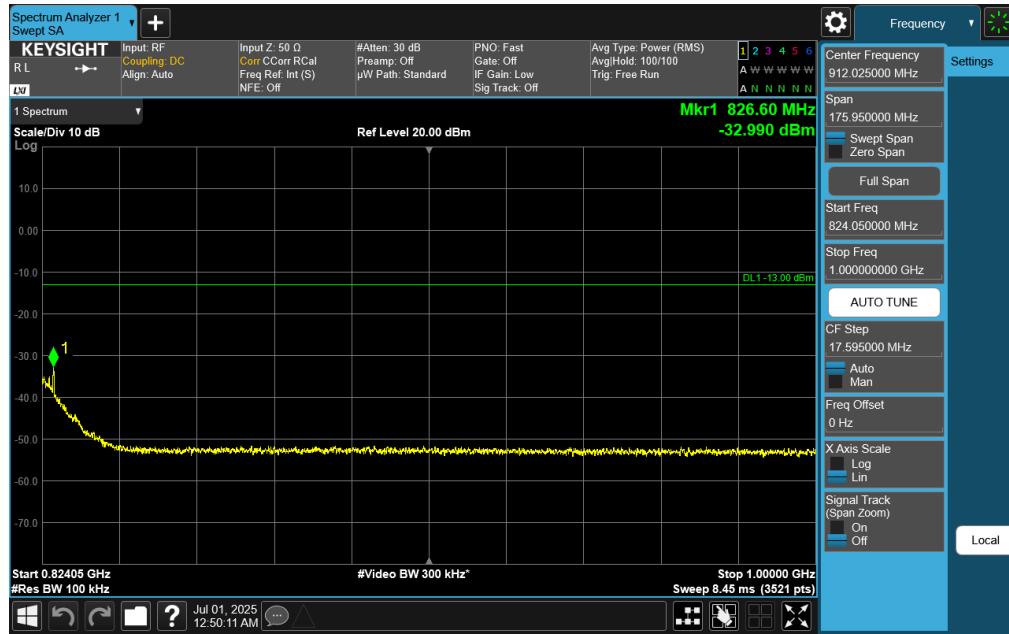


**Plot 7-49. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - Low Channel)**

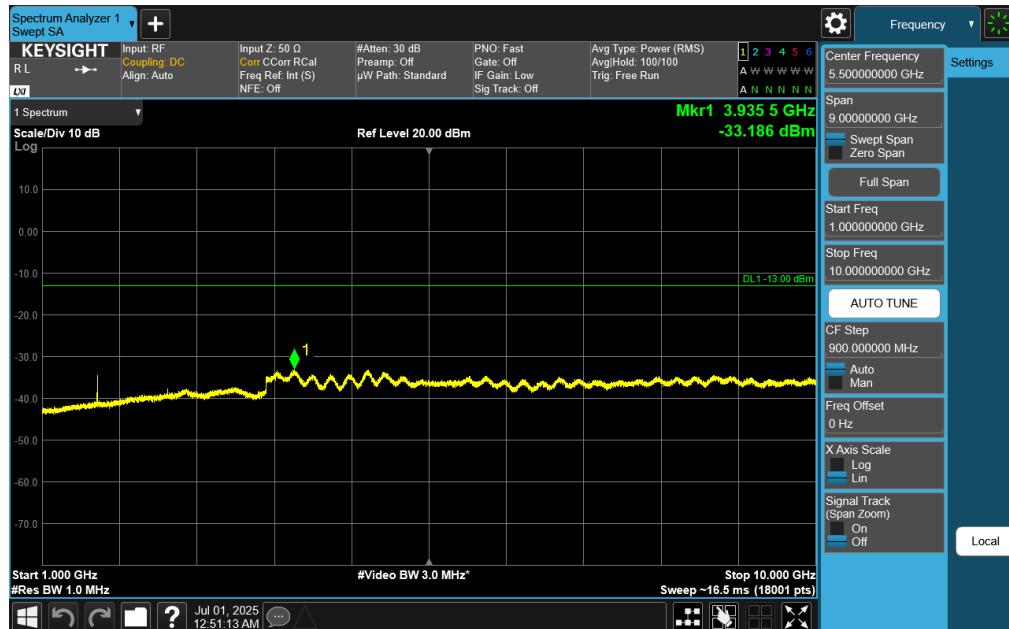


**Plot 7-50. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 - Mid Channel)**

FCC ID: BCG-A3337	PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch	Page 43 of 90

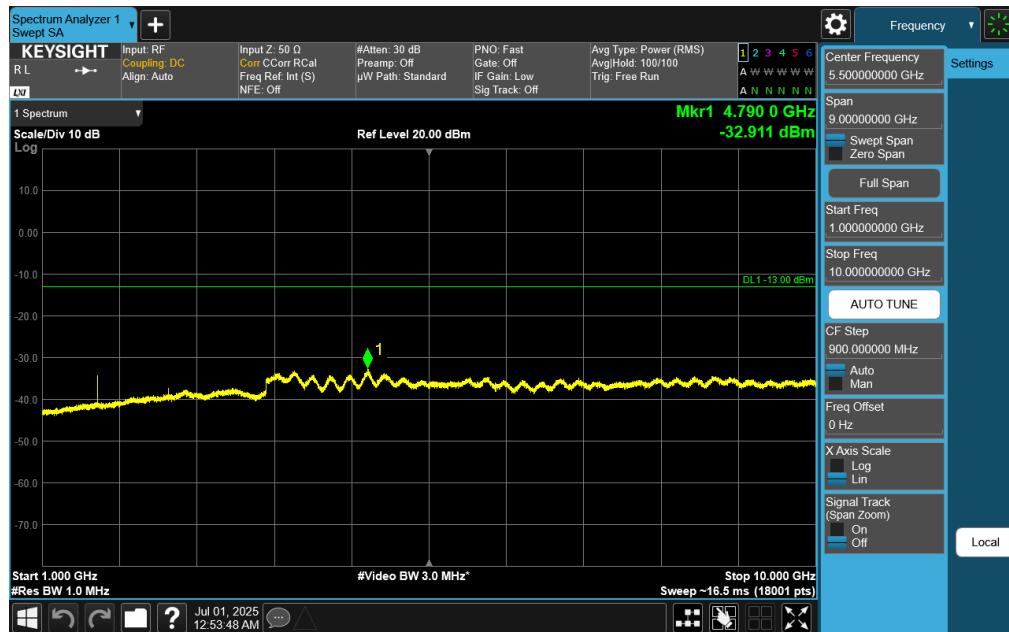


**Plot 7-51. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

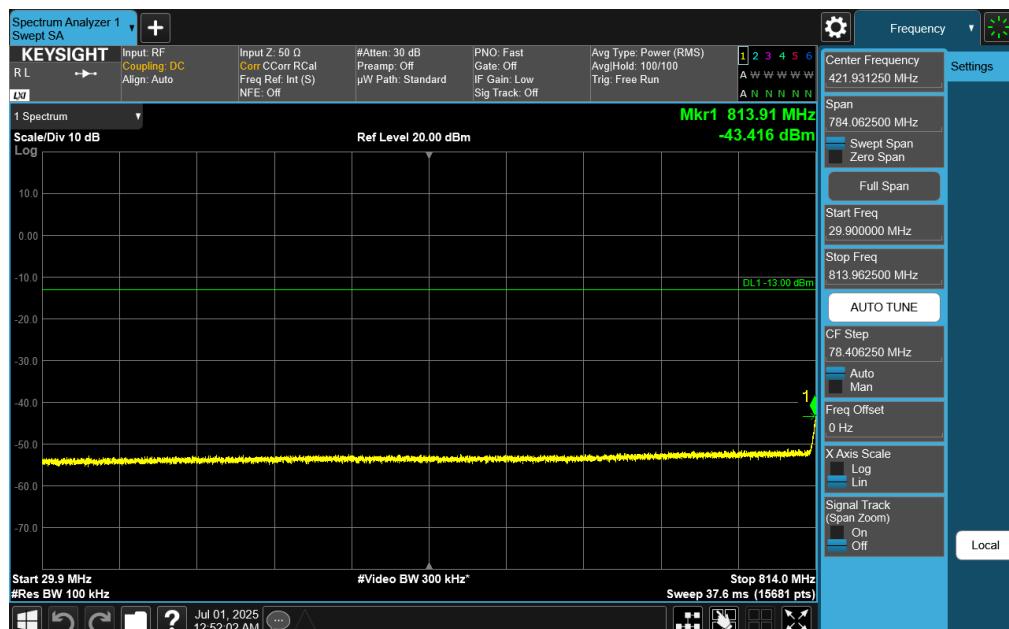


**Plot 7-52. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 25 – Mid Channel)**

FCC ID: BCG-A3337	 <b>PART 90 MEASUREMENT REPORT</b>			Approved by: Technical Manager
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**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-A3337	 <b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 45 of 90



**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-A3337	<b>element</b> PART 90 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270033-05.BCG	Test Dates: 01/31/2025 - 07/21/2025	EUT Type: Watch		Page 46 of 90