

MEASUREMENT REPORT PART 90

Applicant Name:

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

Date of Testing:

7/1/2024 - 12/9/2024

Test Report Issue Date:

1/14/2025

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2410210073-12-R1.BCG

FCC ID:

BCGA3267

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3267, A3270

EUT Type:

Tablet Device

FCC Classification:

PCS Licensed Transmitter (PCB)

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.


This revised Test Report (S/N: 1C2410210073-12-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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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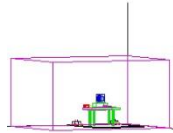
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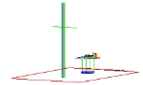
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	Measurement	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
LTE Band 26	1.4 MHz	QPSK	814.7 - 823.3	Conducted	1.1086	0.366	25.63	1M11G7W
		16QAM	814.7 - 823.3	Conducted	1.1186	0.288	24.60	1M12D7W
		64QAM	814.7 - 823.3	Conducted	1.1101	0.236	23.72	1M11D7W
		256QAM	814.7 - 823.3	Conducted	1.1034	0.116	20.64	1M10D7W
	3 MHz	QPSK	815.5 - 822.5	Conducted	2.7268	0.372	25.70	2M73G7W
		16QAM	815.5 - 822.5	Conducted	2.7244	0.293	24.67	2M72D7W
		64QAM	815.5 - 822.5	Conducted	2.7227	0.227	23.56	2M72D7W
		256QAM	815.5 - 822.5	Conducted	2.7255	0.121	20.81	2M73D7W
	5 MHz	QPSK	816.5 - 821.5	Conducted	4.5687	0.372	25.70	4M57G7W
		16QAM	816.5 - 821.5	Conducted	4.5502	0.287	24.58	4M55D7W
		64QAM	816.5 - 821.5	Conducted	4.5474	0.235	23.71	4M55D7W
		256QAM	816.5 - 821.5	Conducted	4.5520	0.118	20.71	4M55D7W
	10 MHz	QPSK	819.0	Conducted	9.0551	0.358	25.54	9M06G7W
		16QAM	819.0	Conducted	9.0293	0.287	24.58	9M03D7W
		64QAM	819.0	Conducted	9.0635	0.227	23.56	9M06D7W
		256QAM	819.0	Conducted	9.0380	0.119	20.74	9M04D7W
LTE Band 14	5 MHz	QPSK	790.5 - 795.5	ERP	4.5412	0.167	22.24	4M54G7W
		16QAM	790.5 - 795.5	ERP	4.5475	0.135	21.31	4M55D7W
		64QAM	790.5 - 795.5	ERP	4.5381	0.108	20.34	4M54D7W
		256QAM	790.5 - 795.5	ERP	4.5396	0.055	17.41	4M54D7W
	10 MHz	QPSK	793.0	ERP	9.0286	0.161	22.08	9M03G7W
		16QAM	793.0	ERP	9.0554	0.129	21.12	9M06D7W
		64QAM	793.0	ERP	9.0059	0.100	20.01	9M01D7W
		256QAM	793.0	ERP	9.0086	0.055	17.38	9M01D7W
NR Band n26	5 MHz	$\pi/2$ BPSK	816.5 - 821.5	Conducted	4.4311	0.372	25.70	4M43G7W
		QPSK	816.5 - 821.5	Conducted	4.4710	0.370	25.68	4M47G7W
		16QAM	816.5 - 821.5	Conducted	4.4866	0.291	24.64	4M49D7W
		64QAM	816.5 - 821.5	Conducted	4.4526	0.230	23.62	4M45D7W
		256QAM	816.5 - 821.5	Conducted	4.4872	0.118	20.71	4M49D7W
	10 MHz	$\pi/2$ BPSK	819.0	Conducted	8.9221	0.372	25.70	8M92G7W
		QPSK	819.0	Conducted	9.2911	0.340	25.31	9M29G7W
		16QAM	819.0	Conducted	9.2803	0.273	24.36	9M28D7W
		64QAM	819.0	Conducted	9.2848	0.220	23.43	9M28D7W
		256QAM	793.0	Conducted	9.3114	0.119	20.77	9M31D7W
NR Band n14	5 MHz	$\pi/2$ BPSK	790.5 - 795.5	ERP	4.4940	0.168	22.25	4M49G7W
		QPSK	790.5 - 795.5	ERP	4.4792	0.164	22.14	4M48G7W
		16QAM	790.5 - 795.5	ERP	4.4953	0.133	21.25	4M50D7W
		64QAM	790.5 - 795.5	ERP	4.4765	0.106	20.26	4M48D7W
		256QAM	790.5 - 795.5	ERP	4.4827	0.054	17.36	4M48D7W
	10 MHz	$\pi/2$ BPSK	793.0	ERP	8.9603	0.168	22.25	8M96G7W
		QPSK	793.0	ERP	9.2927	0.166	22.19	9M29G7W
		16QAM	793.0	ERP	9.2890	0.131	21.17	9M29D7W
		64QAM	793.0	ERP	9.3013	0.105	20.23	9M30D7W
		256QAM	793.0	ERP	9.2927	0.054	17.30	9M29D7W

EUT Overviews

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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 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 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).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA3267**. 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.: WJR90Q30N3, LYHQ6QQTKY, D4WG6WKFL6, DLXH5R0001N0000RMD, DLXH5R0001E0000RMD

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, 802.11a/ax WIFI 6E, 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), NB UNII (1x, HDR4, HDR8), WPT

This device supports BT Beamforming

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.


Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, HDR4/8, LE1/2M	802.15.4	802.11 b/g/n/ax	BDR, HDR4/8	802.11 a/n/ac/ax	802.11 a/ax	LB	MB/HB	Ultra High Band
Ant 3a	Config 1	✓	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 2	✗	✓	✗	✗	✓	✗	✗	✓	✗
Ant 3a	Config 3	✗	✗	✓	✓	✗	✗	✗	✓	✗
Ant 3a	Config 4	✓	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3a	Config 5	✗	✓	✗	✗	✗	✓	✗	✓	✗
Ant 3a	Config 6	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 3a	Config 7	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 3a	Config 8	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 3a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 3a	Config 10	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 1a	Config 11	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 12	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 13	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1b	Config 14	✗	✗	✗	✗	✗	✓	✗	✗	✓
Ant 1b	Config 15	✗	✗	✗	✗	✓	✗	✗	✗	✓
Ant 1b	Config 16	✗	✗	✗	✓	✗	✗	✗	✗	✓

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

1. All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 1 and reported in RF Bluetooth, RF UNII OFDM and RF FCC Part 27b test reports.
2. Specific 2.4GHz Wi-Fi antenna that can only transmit simultaneously with 2.4GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4GHz), in both connected and disconnected modes, and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5/6 GHz on separate antenna.

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2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.


Band	Antenna Gain [dBi]	
	Antenna 4	Antenna 3b
LTE Band 14	-1.3	-2.1
NR Band n14		
LTE Band 26	-2.4	-0.4
NR Band n26		

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPMOWA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A246C	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
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 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.

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

2.6 Software and Firmware

The test was conducted with firmware version 22D20 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 “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:

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


And

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

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.

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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

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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
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/14/2024	Annual	3/14/2025	T058701-01
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/9/2024	Annual	4/9/2025	00218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Fairview Microwave	M2CP1122-10	RF Directional Coupler *	6/10/2024	Annual	6/10/2025	1946
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Rohde & Schwarz	FSW67	Signal and Spectrum Analyzer (2Hz-67GHz)	7/5/2024	Annual	7/5/2025	101366
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	3/1/2024	Annual	3/1/2025	102143
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/1/2024	Annual	5/1/2025	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/27/2023	Annual	12/27/2024	164715
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

Table 5-1. Test Equipment List

Notes:

- 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.
- * Denotes passive equipment that have 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: BCGA3267
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	N/A	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.	PASS	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	PASS	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.	PASS	Section 7.8
	Frequency Stability (LTE Band 26)	90.213	< 2.5 ppm	PASS	Section 7.8
	Conducted Power	2.1046, 90.635	< 100 Watts	PASS	Section 7.5
	Effective Radiated Power (LTE Band 14)	90.542(a)(7)	< 3 Watts max. ERP	PASS	Section 7.6
	Effective Radiated Power (NR Band n14)			PASS	Section 7.6
	Effective Radiated Power (LTE Band 26)	22.913(a)(5)	< 7 Watts max. ERP	PASS	Section 7.6
RADIATED	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 - 1610MHz band are subject to a limit of -40dBm/MHz for wideband signals	PASS	Section 7.7
	Radiated Spurious Emissions (NR Band n14)			PASS	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	PASS	Section 7.7


Table 7-1. Summary of Test Results

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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's utilized are Element "Chamber Automation," Version 3.1.0.
6. All ports were investigated and for some test cases only the worst case data was reported.

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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 $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

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Test Setup

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

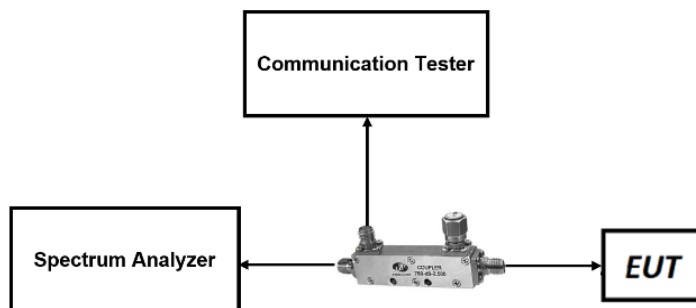


Figure 7-1. LTE Test Instrument & Measurement Setup

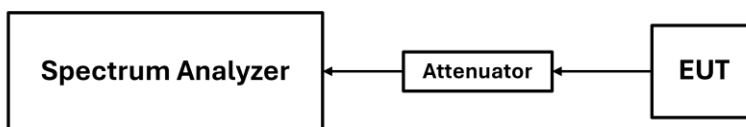



Figure 7-2. FR1 Test Instrument & Measurement Setup

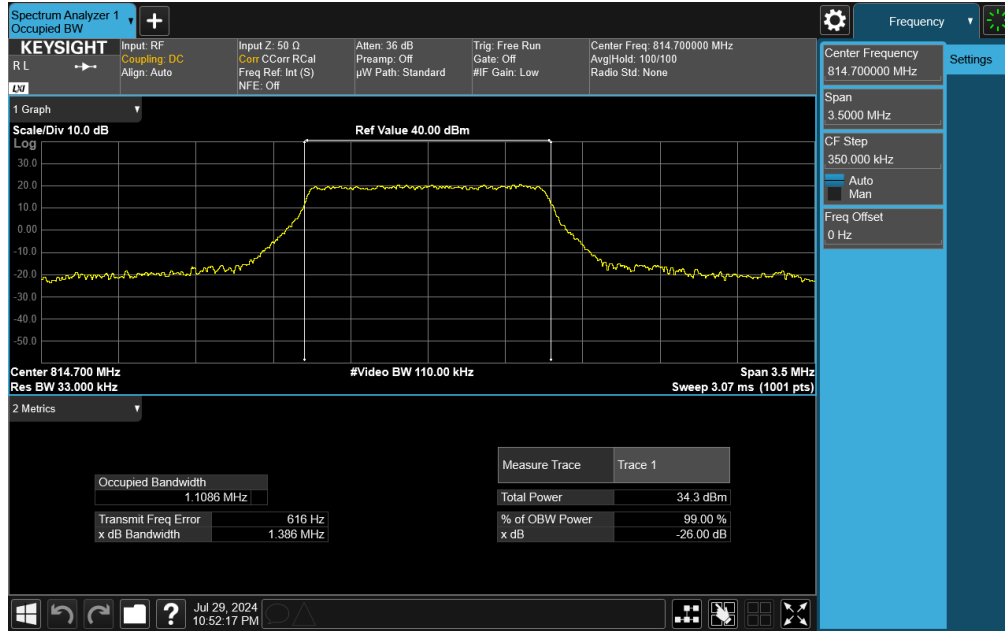
Test Notes

None.

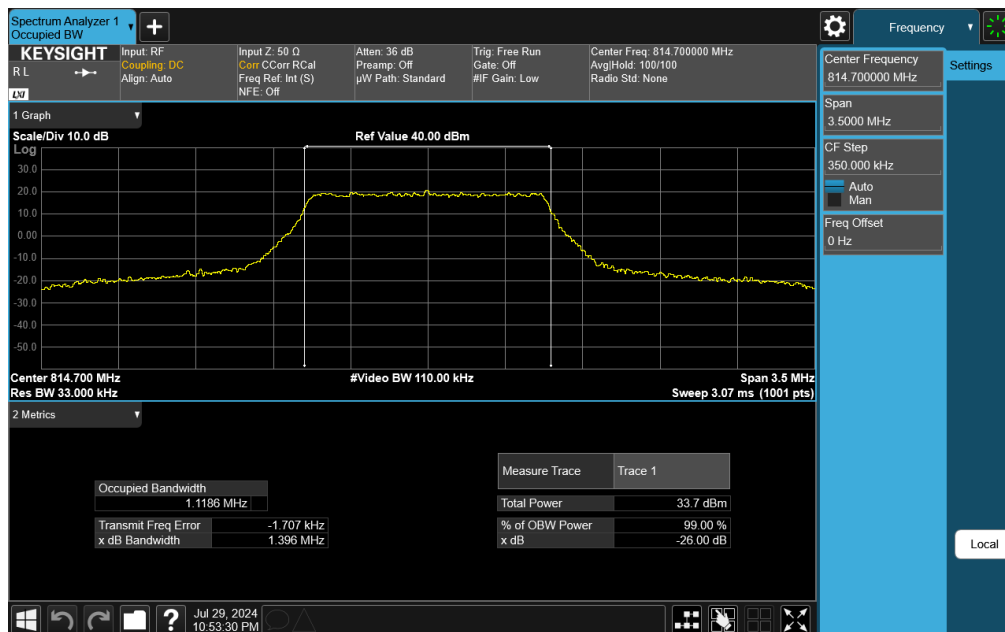
FCC ID: BCGA3267		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 26



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

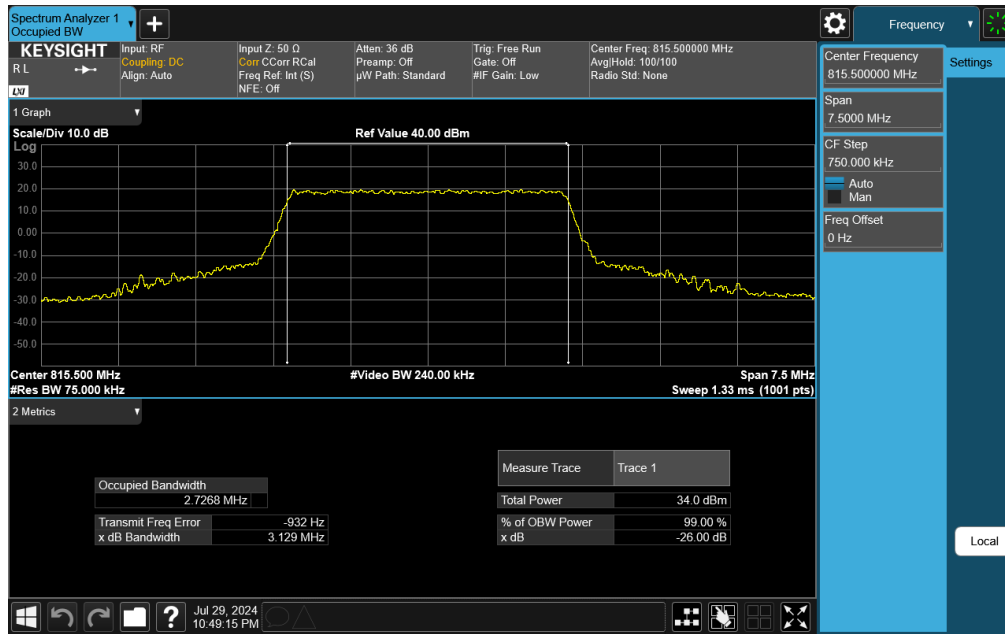


Plot 7-2. Occupied Bandwidth Plot (LTE Band 26 - 1.4MHz 16-QAM - Full RB)

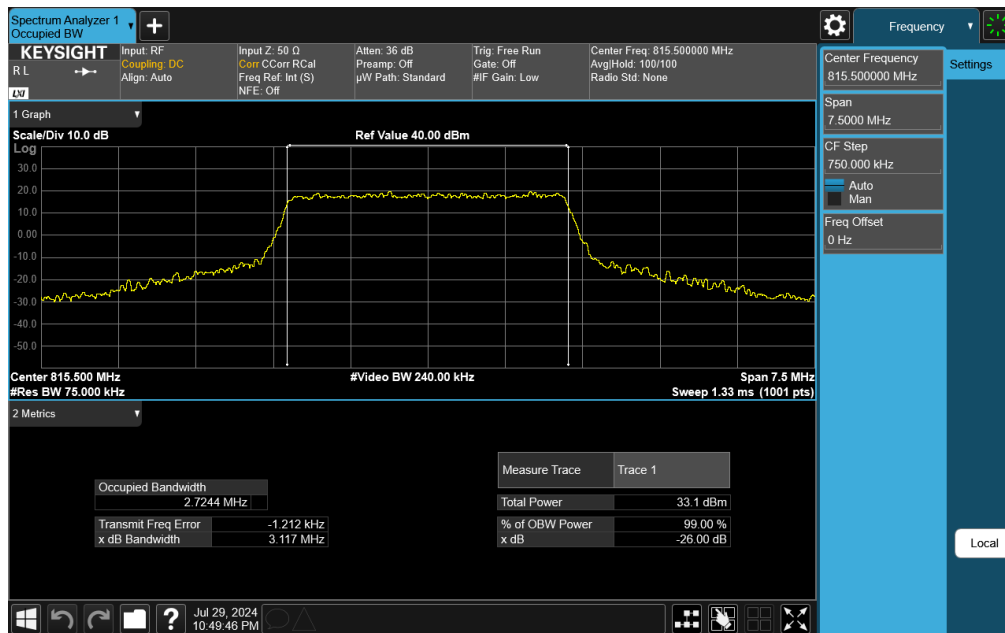
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-5. Occupied Bandwidth Plot (LTE Band 26 - 3MHz QPSK - Full RB)

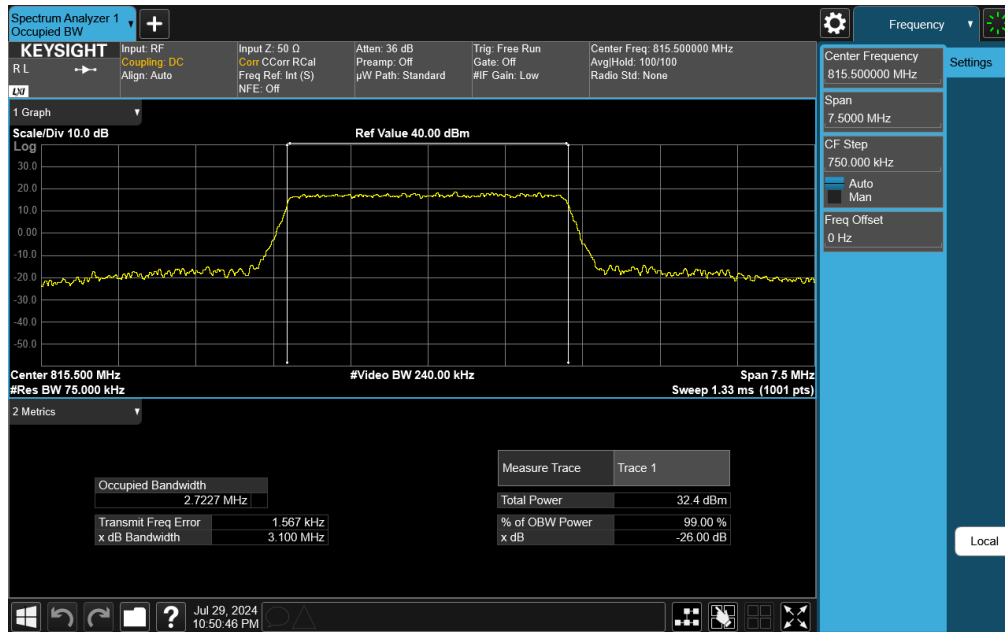


Plot 7-6. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 16-QAM - Full RB)

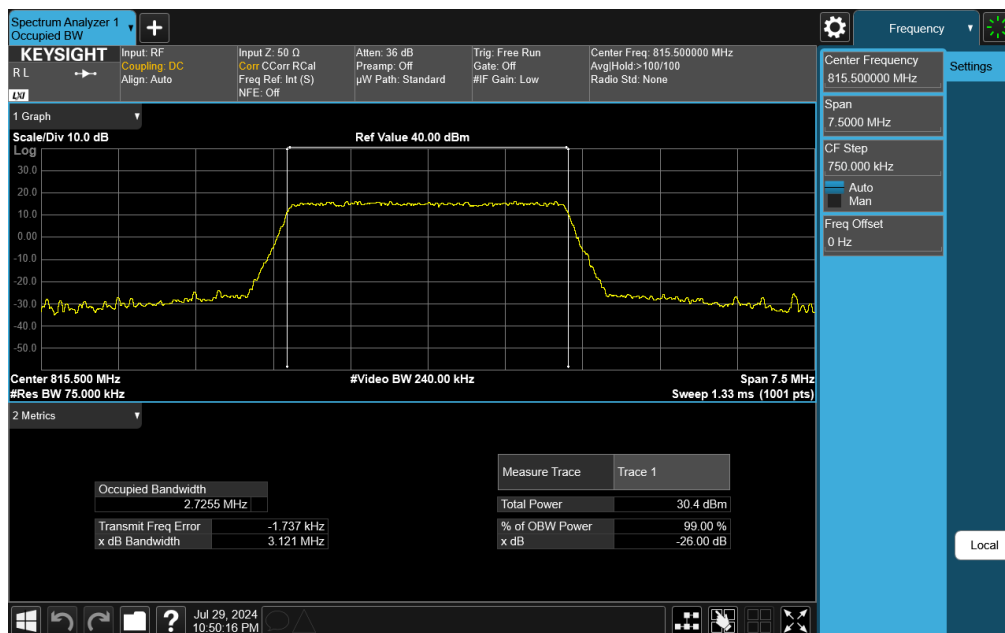
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-7. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 64-QAM - Full RB)

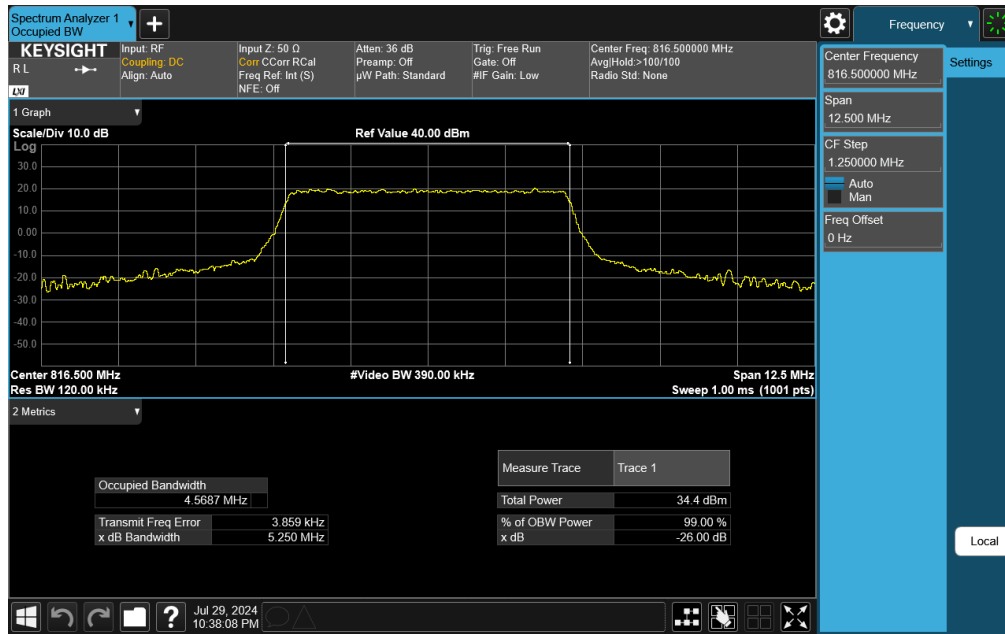


Plot 7-8. Occupied Bandwidth Plot (LTE Band 26 - 3MHz 256-QAM - Full RB)

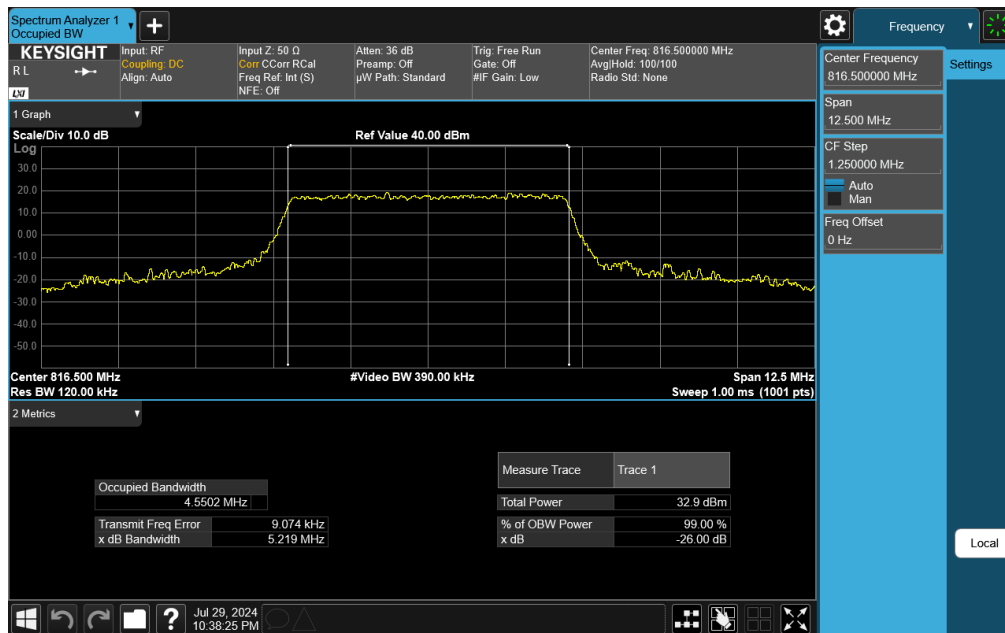
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-9. Occupied Bandwidth Plot (LTE Band 26 - 5MHz QPSK - Full RB)

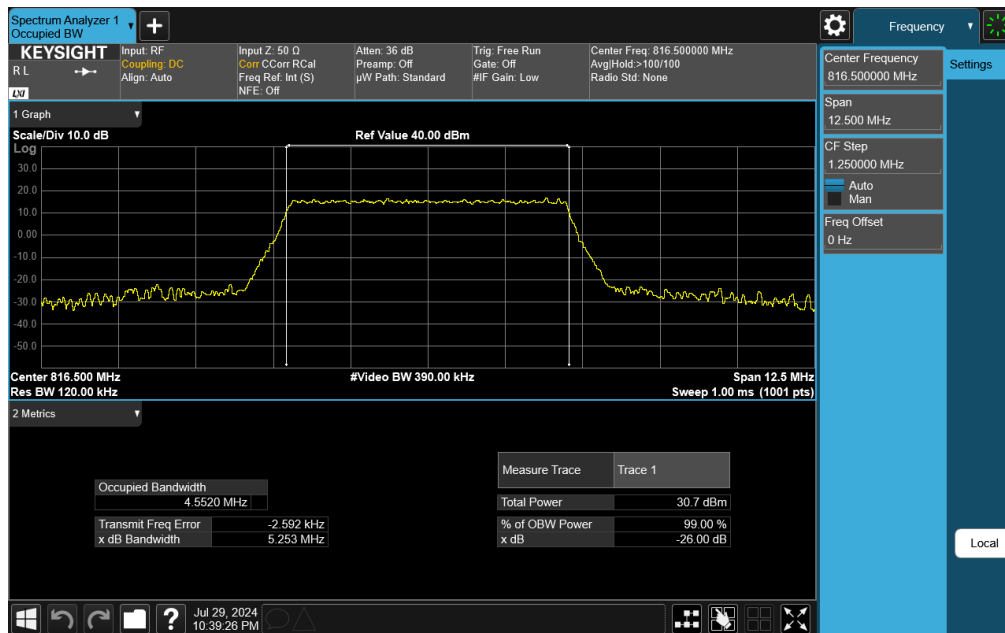
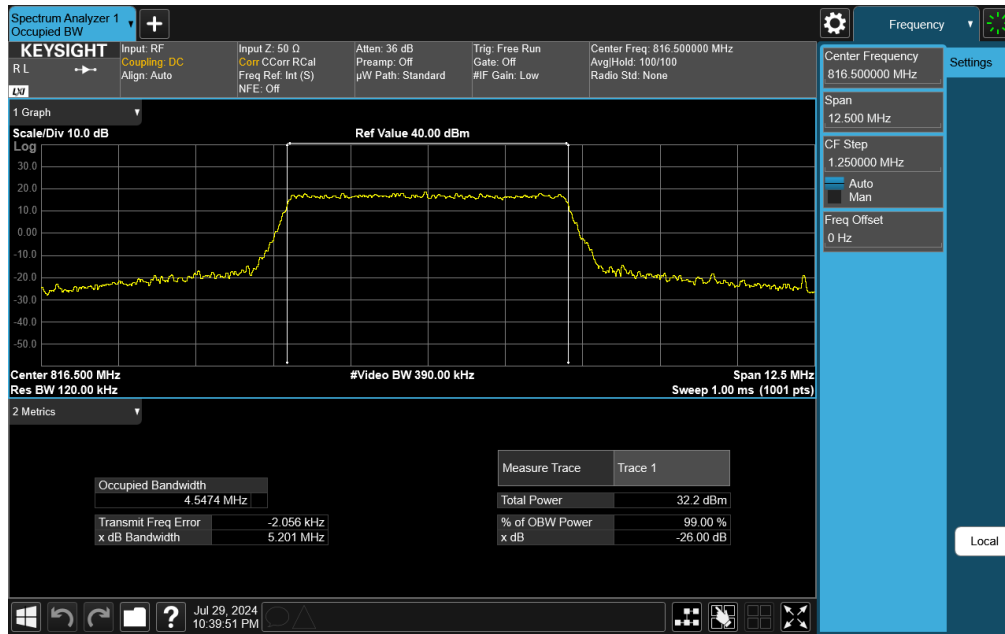



Plot 7-10. Occupied Bandwidth Plot (LTE Band 26 - 5MHz 16-QAM - Full RB)

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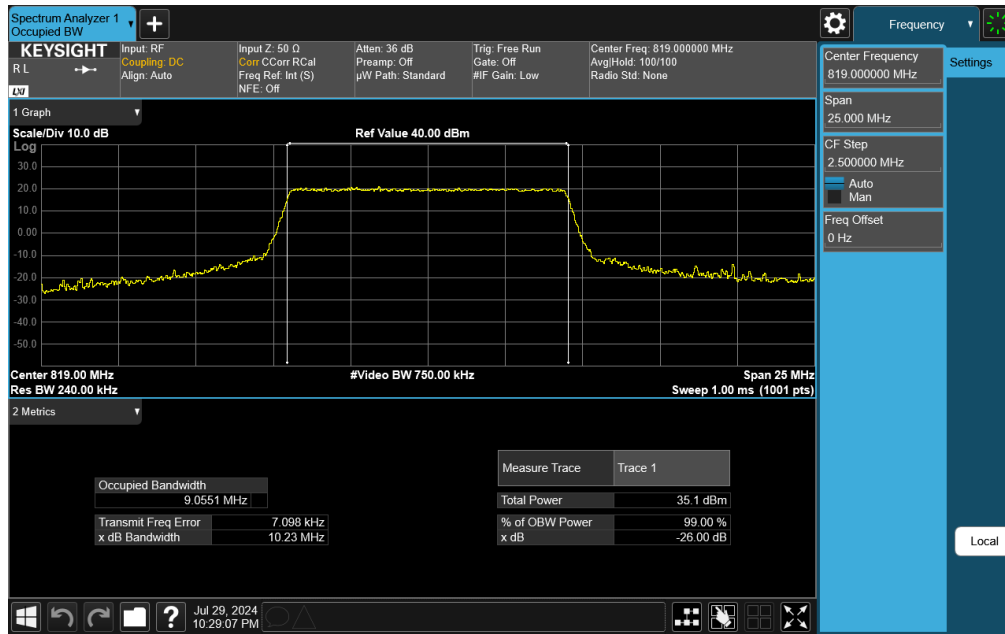
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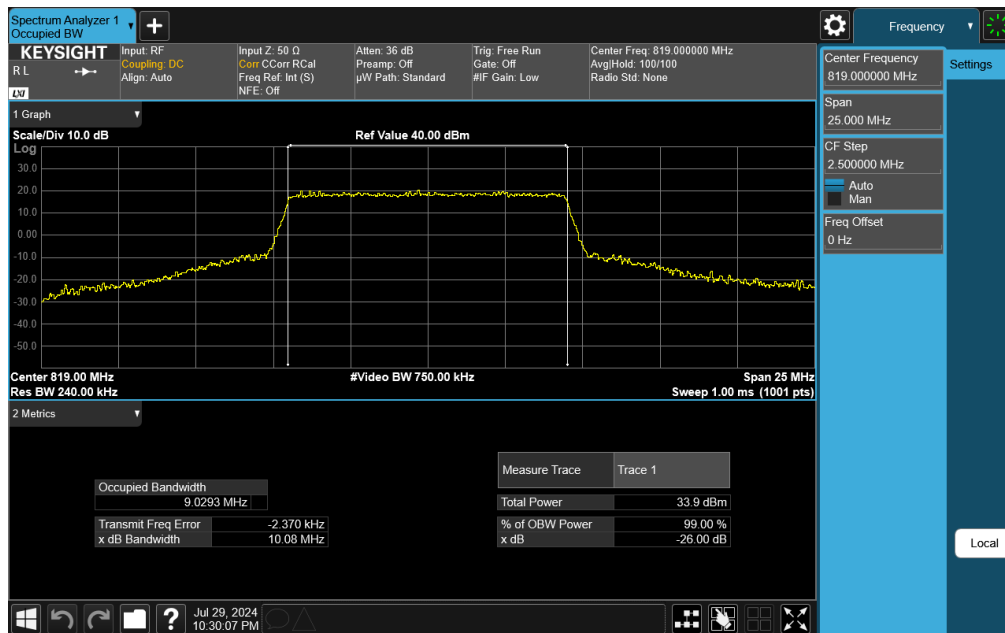
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 26 - 10MHz QPSK - Full RB)

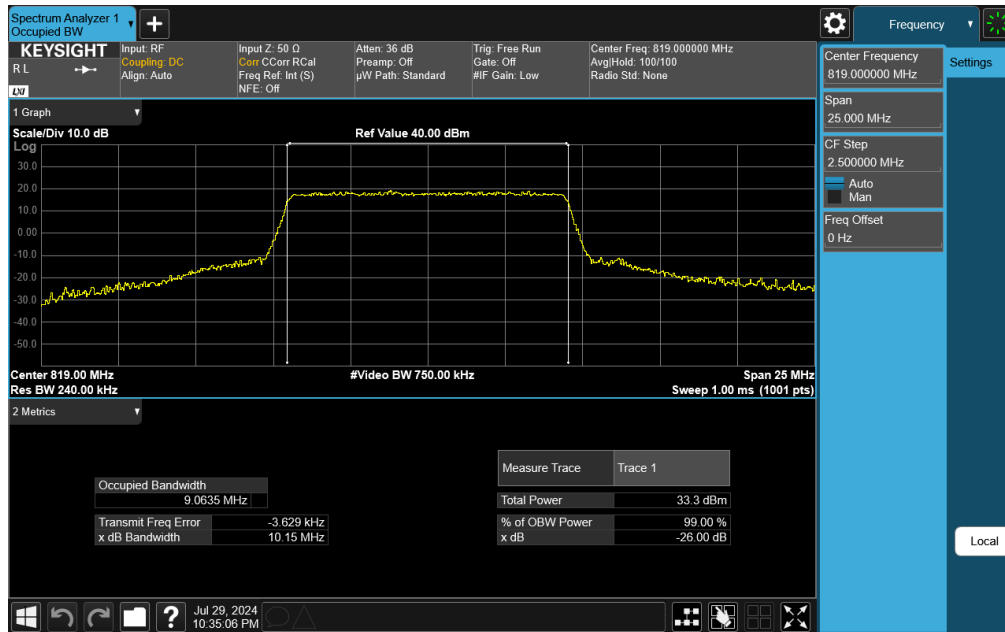


Plot 7-14. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 16-QAM - Full RB)

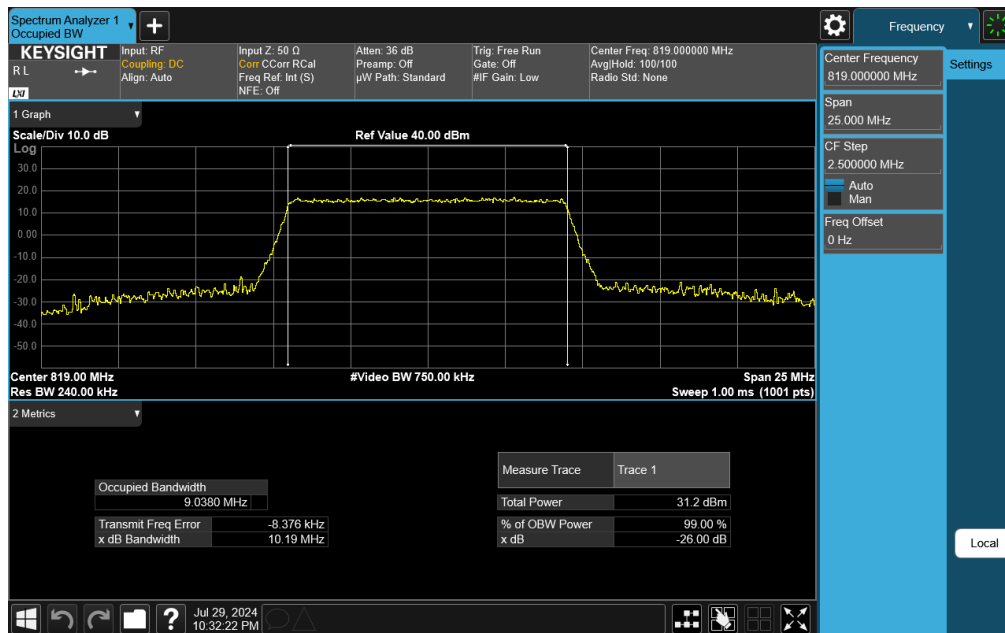
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 64-QAM - Full RB)



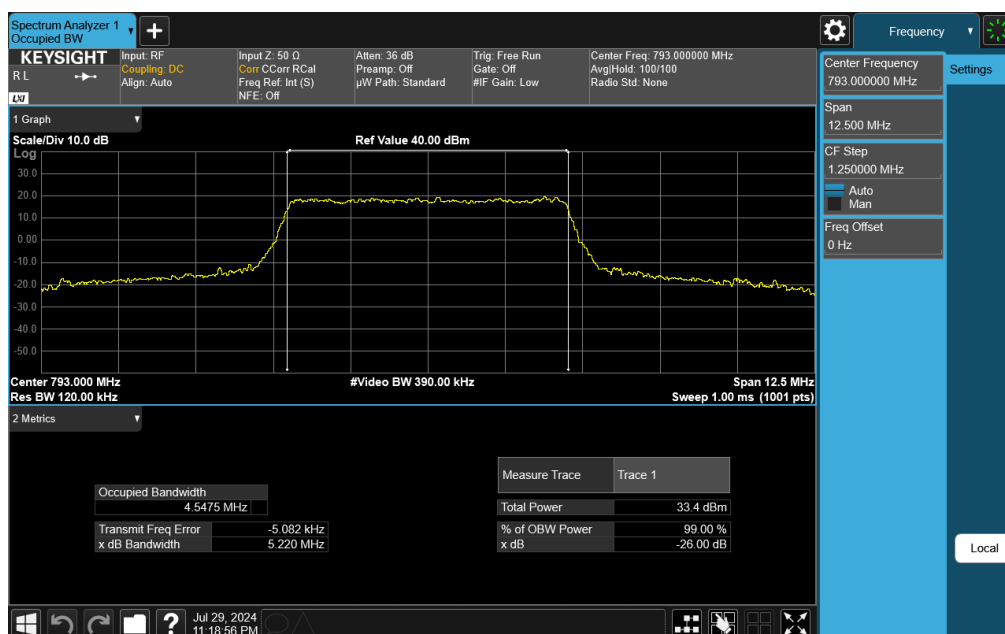
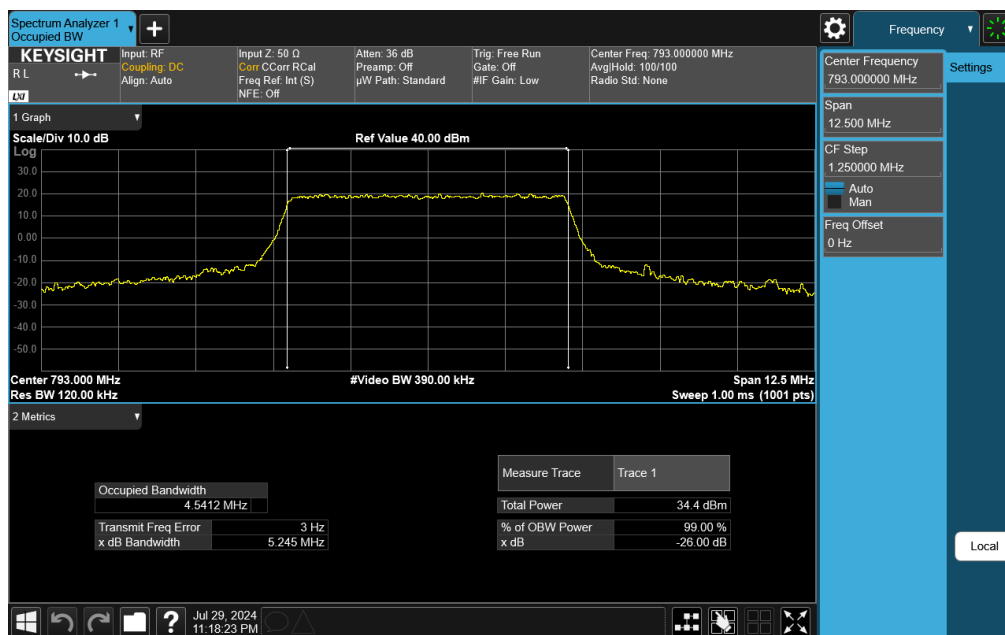
Plot 7-16. Occupied Bandwidth Plot (LTE Band 26 - 10MHz 256-QAM - Full RB)


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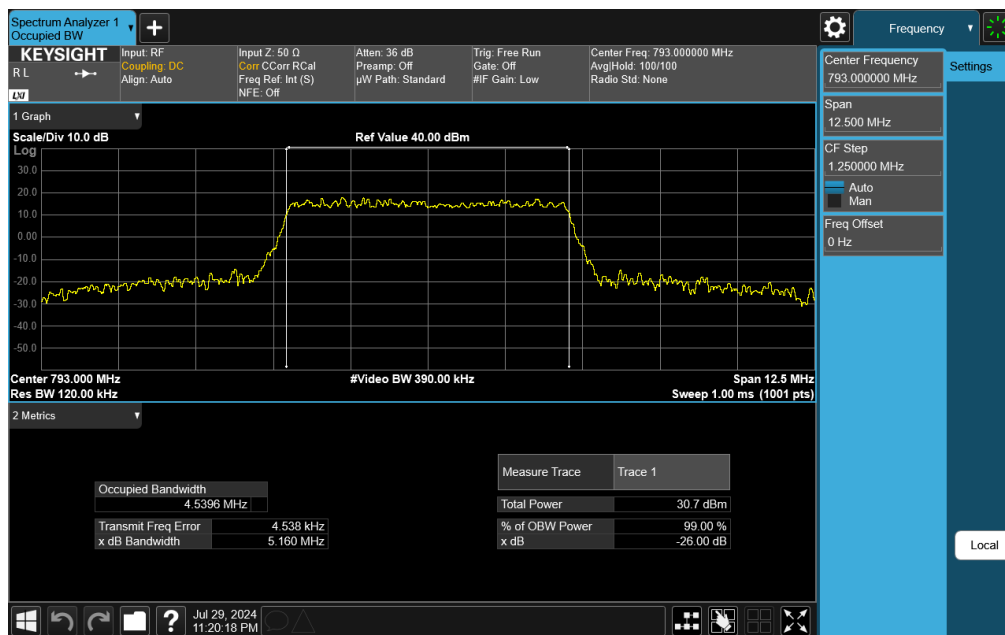
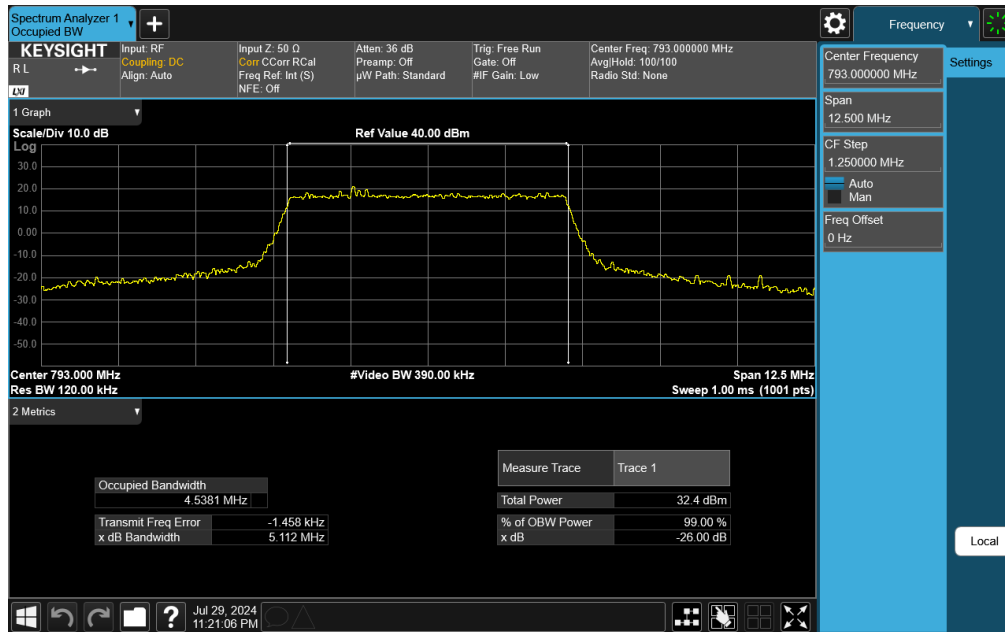
LTE Band 14




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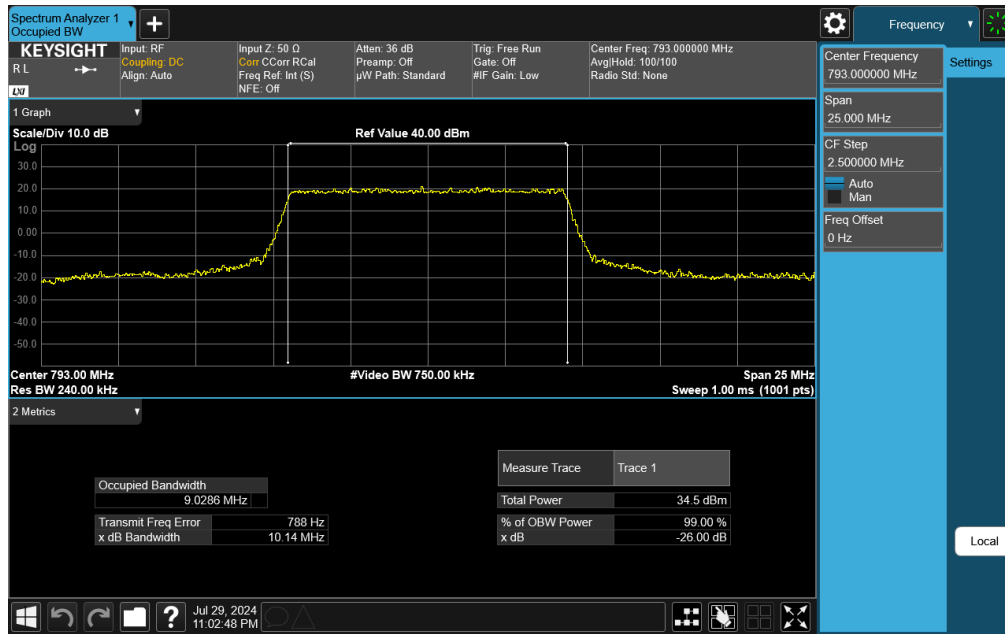
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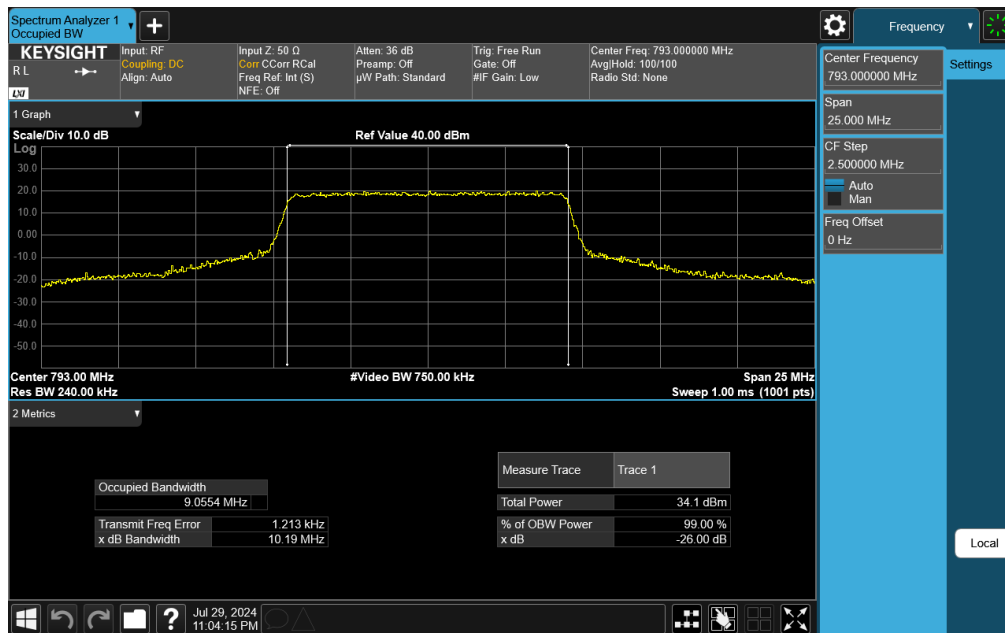
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-21. Occupied Bandwidth Plot (LTE Band 14 - 10MHz QPSK - Full RB)

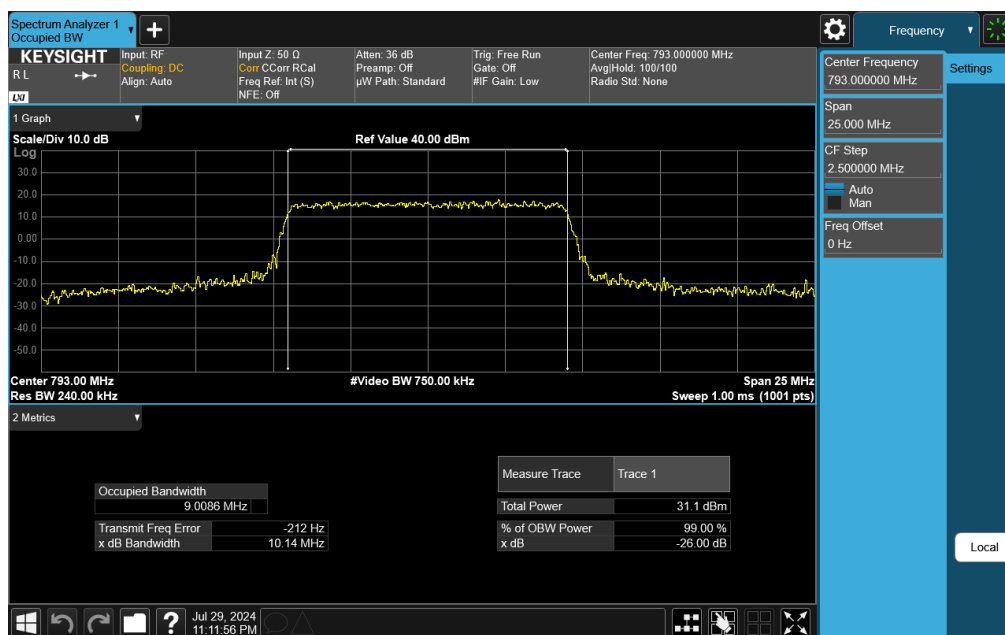
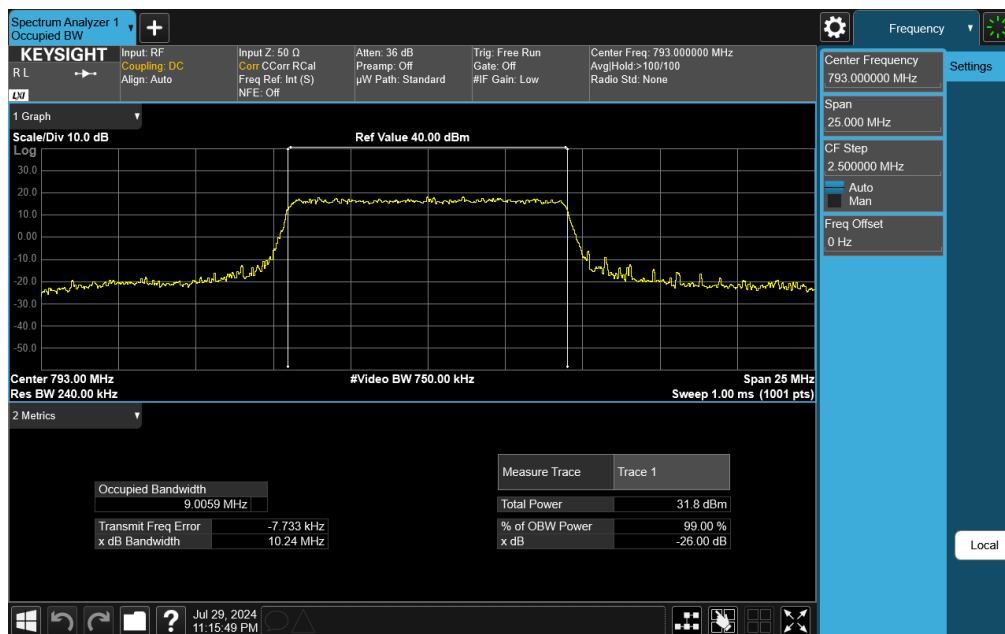



Plot 7-22. Occupied Bandwidth Plot (LTE Band 14 - 10MHz 16-QAM - Full RB)

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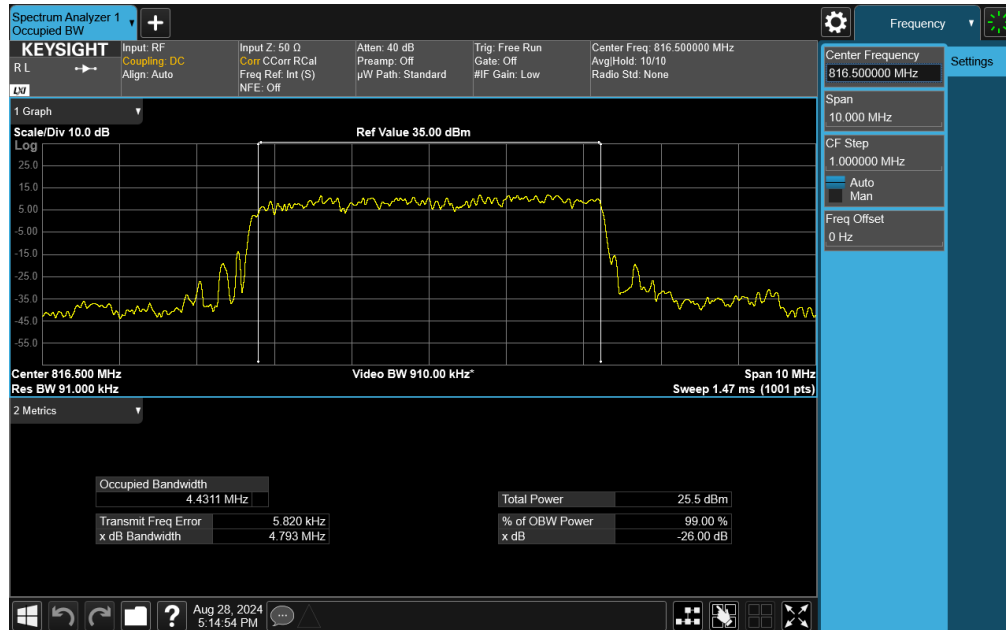


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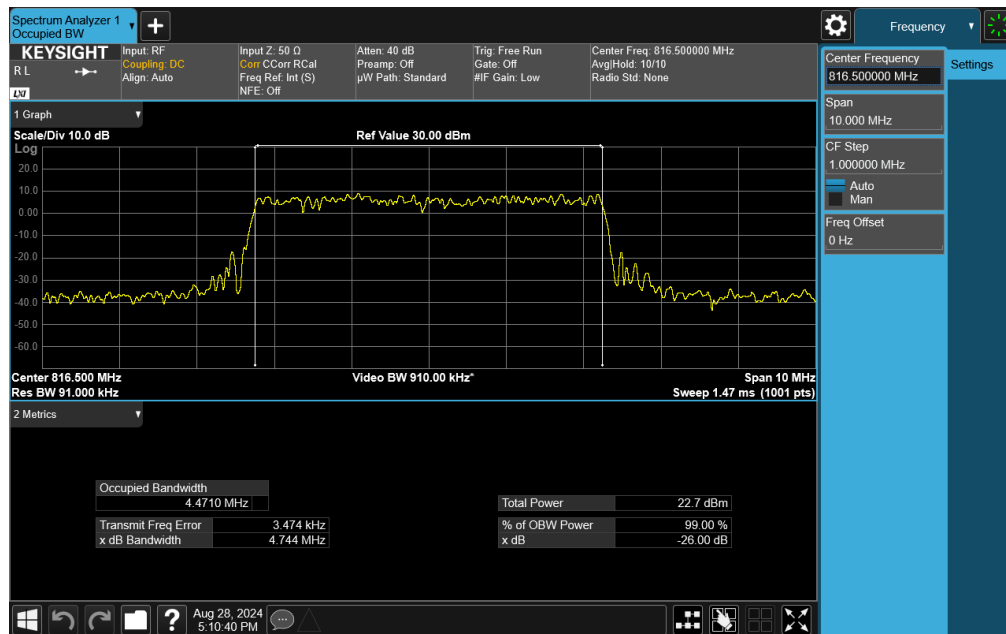
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NR Band n26



Plot 7-25. Occupied Bandwidth Plot (NR Band 26 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

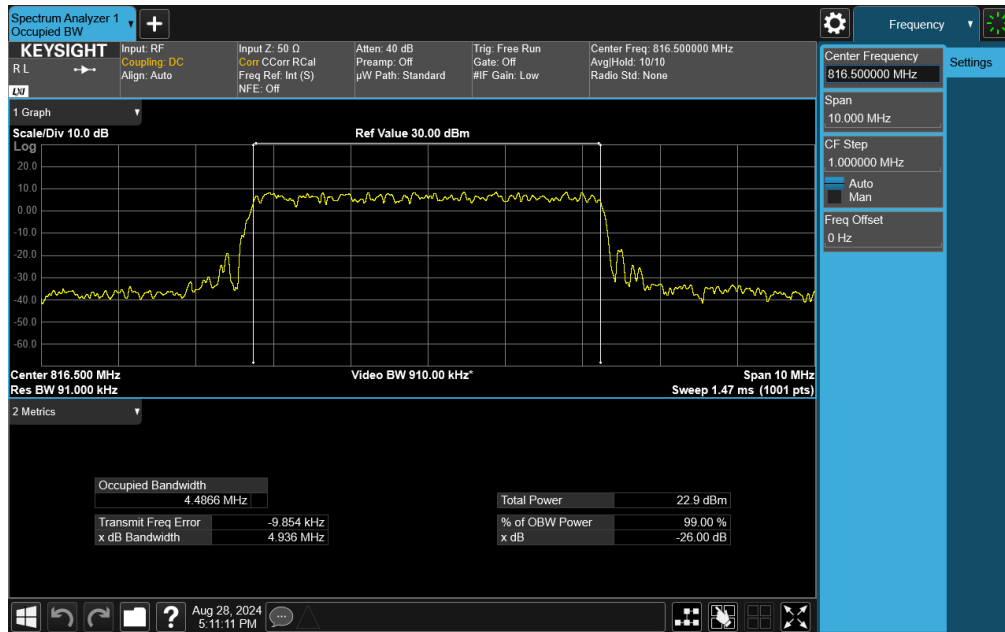


Plot 7-26. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM QPSK - Full RB)

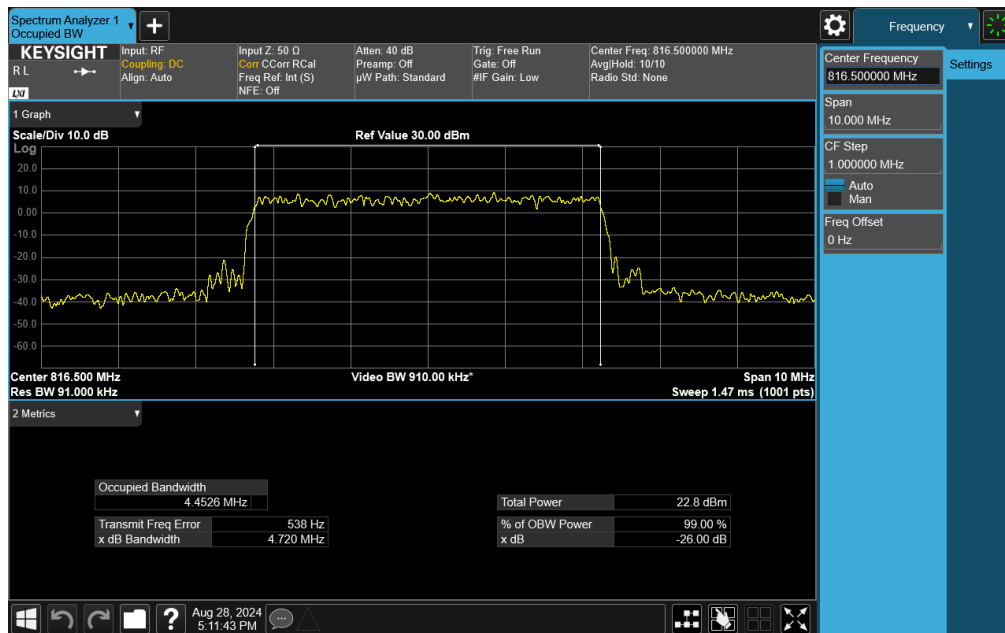
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-27. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM 16-QAM - Full RB)

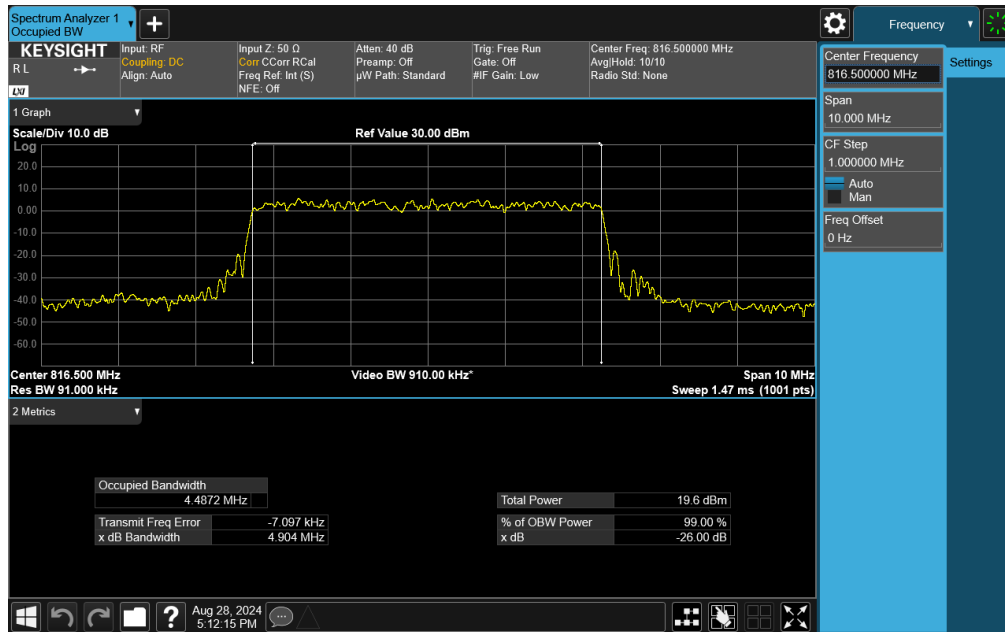


Plot 7-28. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM 64-QAM - Full RB)

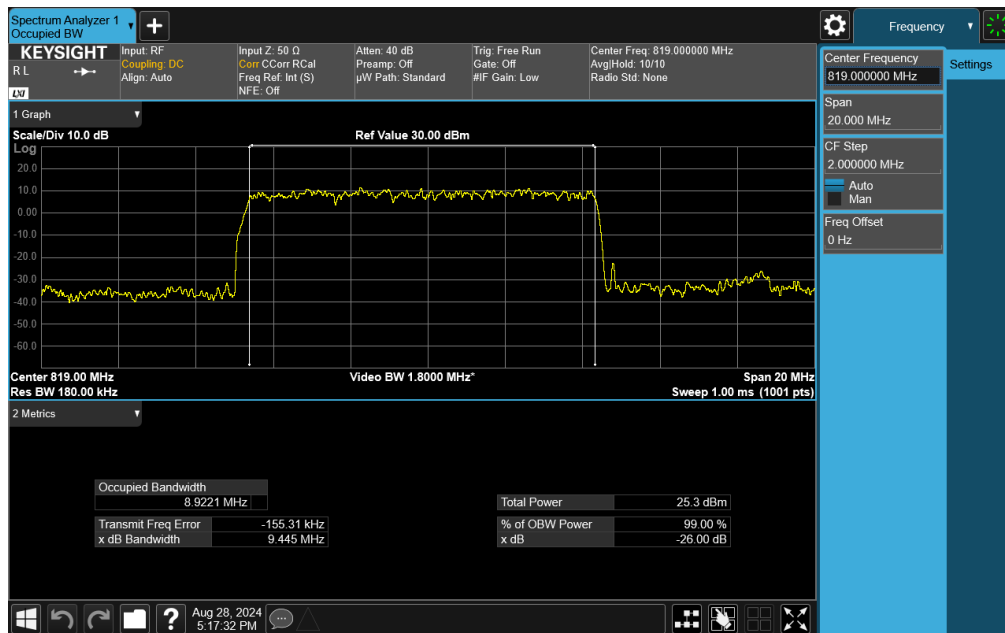
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-29. Occupied Bandwidth Plot (NR Band 26 - 5MHz CP-OFDM 256-QAM - Full RB)

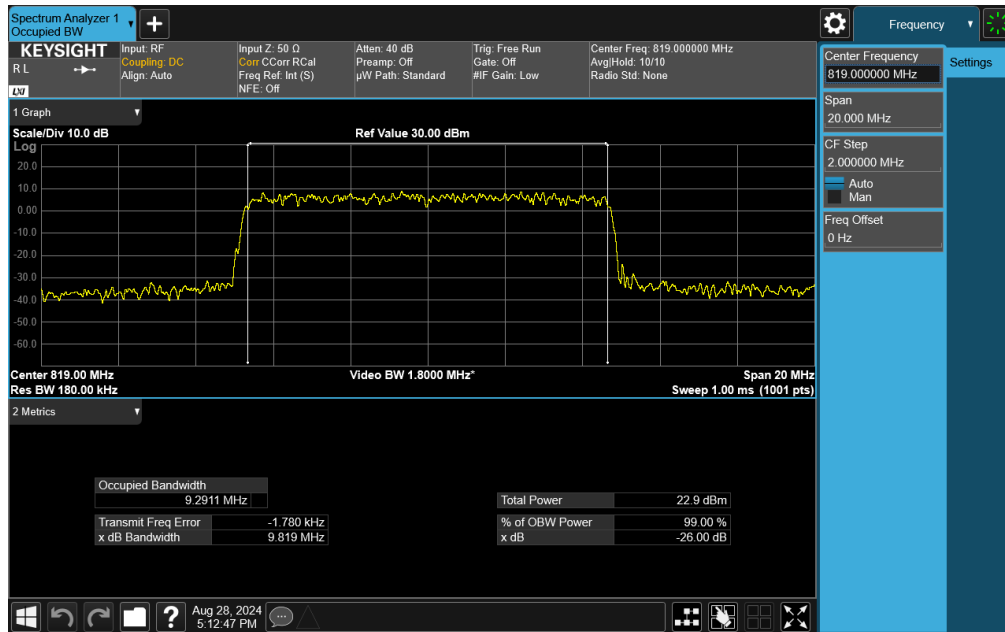


Plot 7-30. Occupied Bandwidth Plot (NR Band 26 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

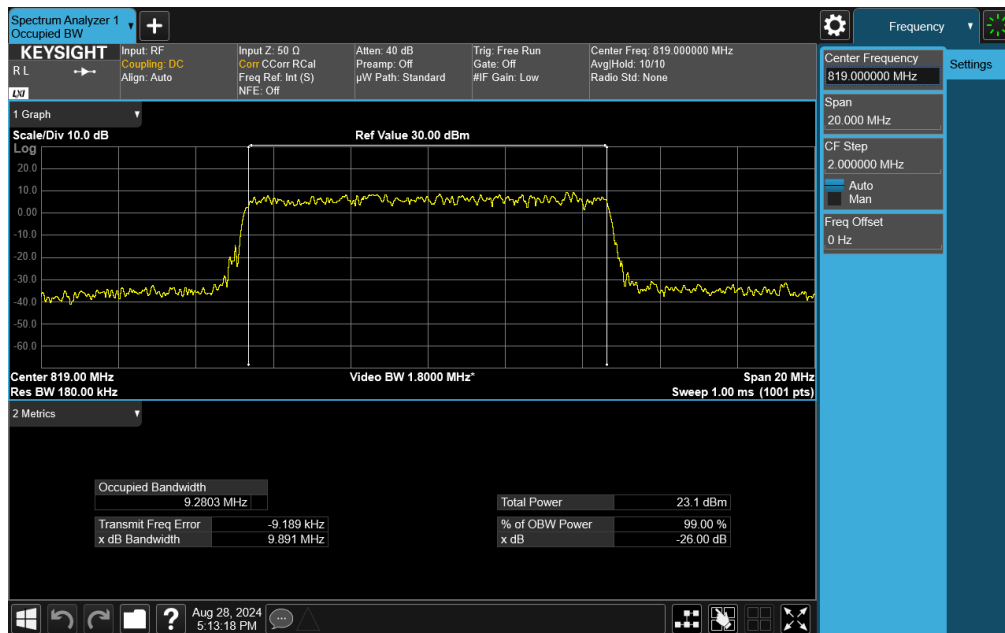
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Plot 7-31. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM QPSK - Full RB)

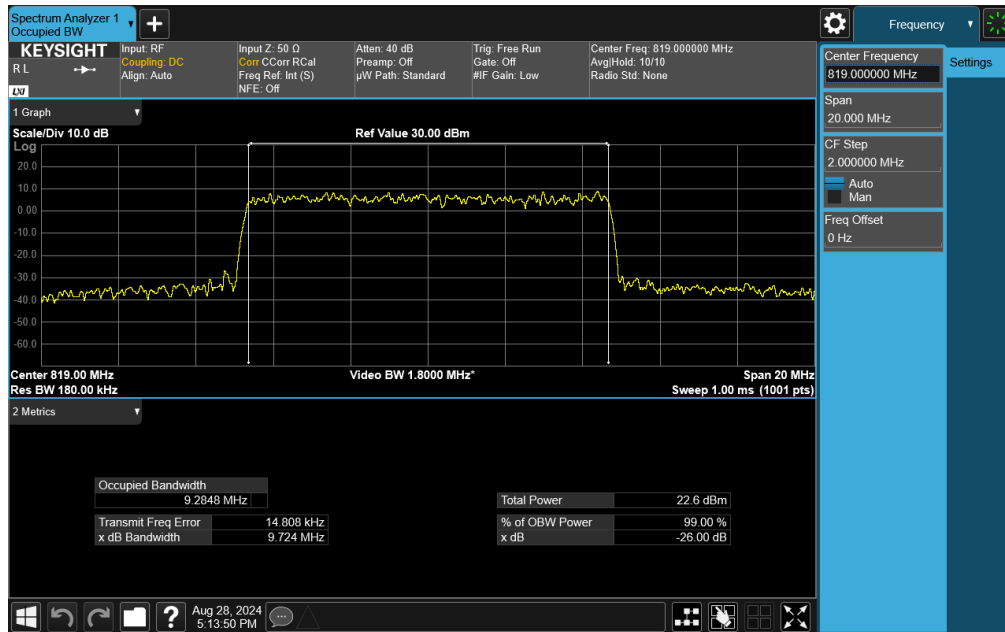


Plot 7-32. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 16-QAM - Full RB)

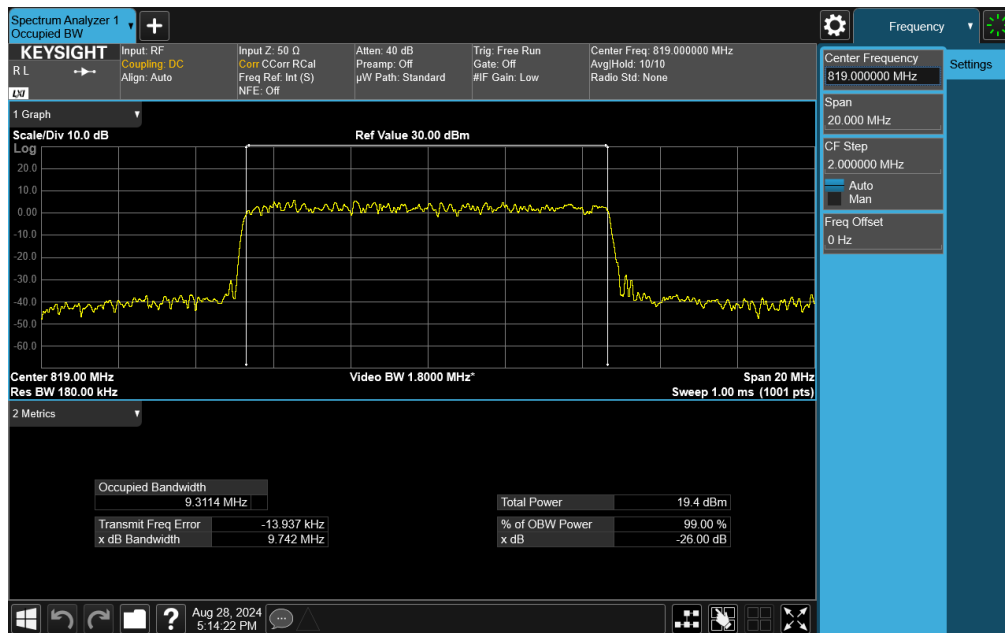
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-33. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 64-QAM - Full RB)



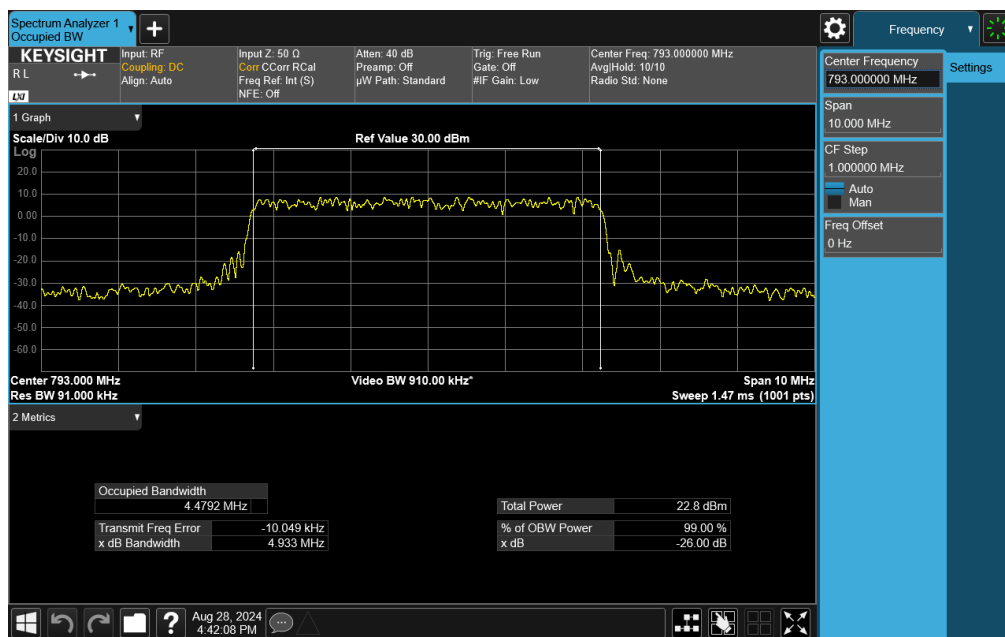
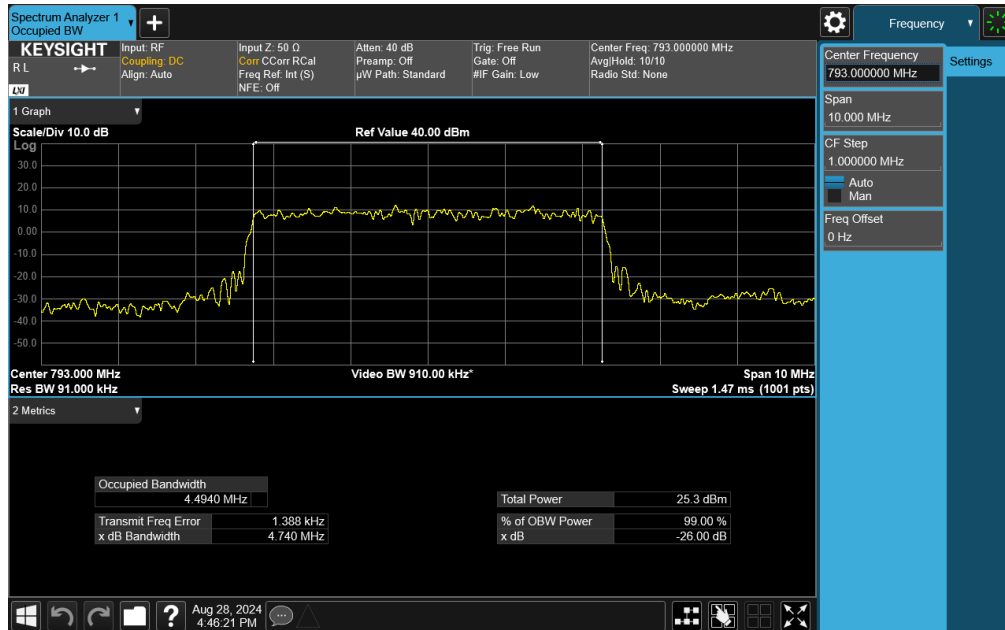
Plot 7-34. Occupied Bandwidth Plot (NR Band 26 - 10MHz CP-OFDM 256-QAM - Full RB)


FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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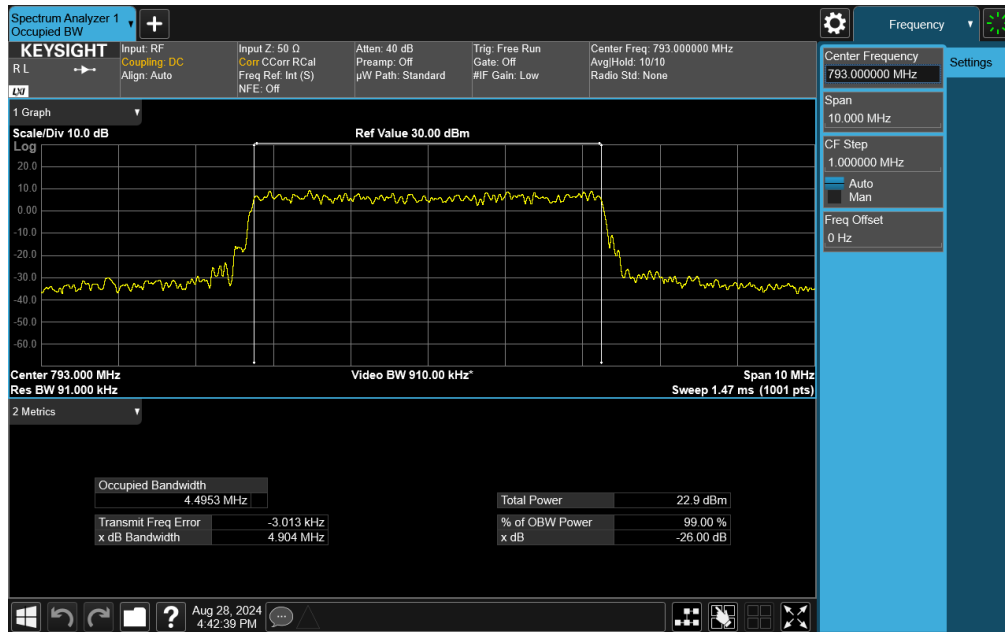
NR Band n14



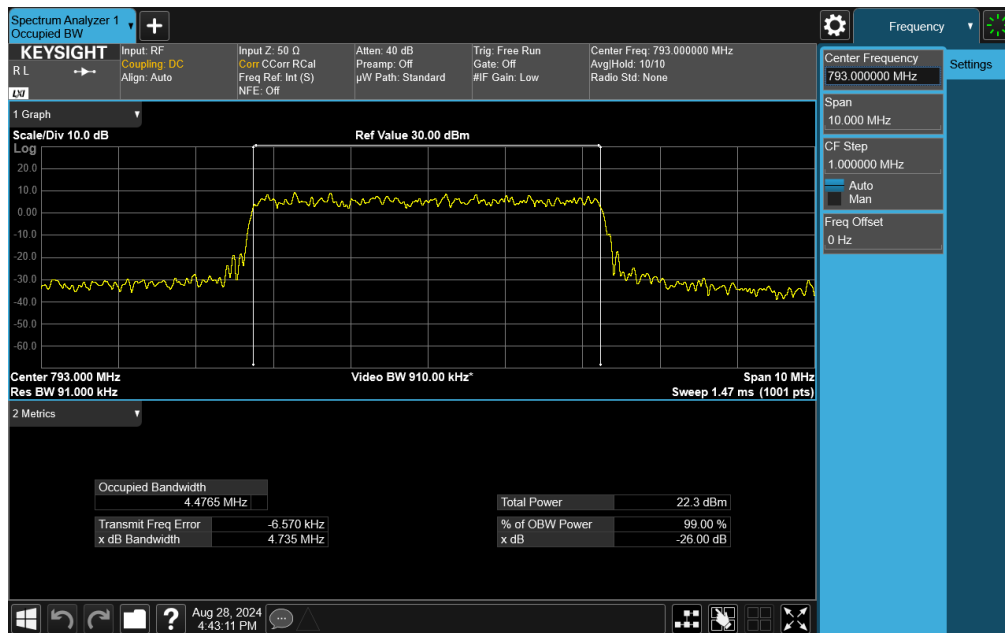
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-37. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM 16-QAM - Full RB)

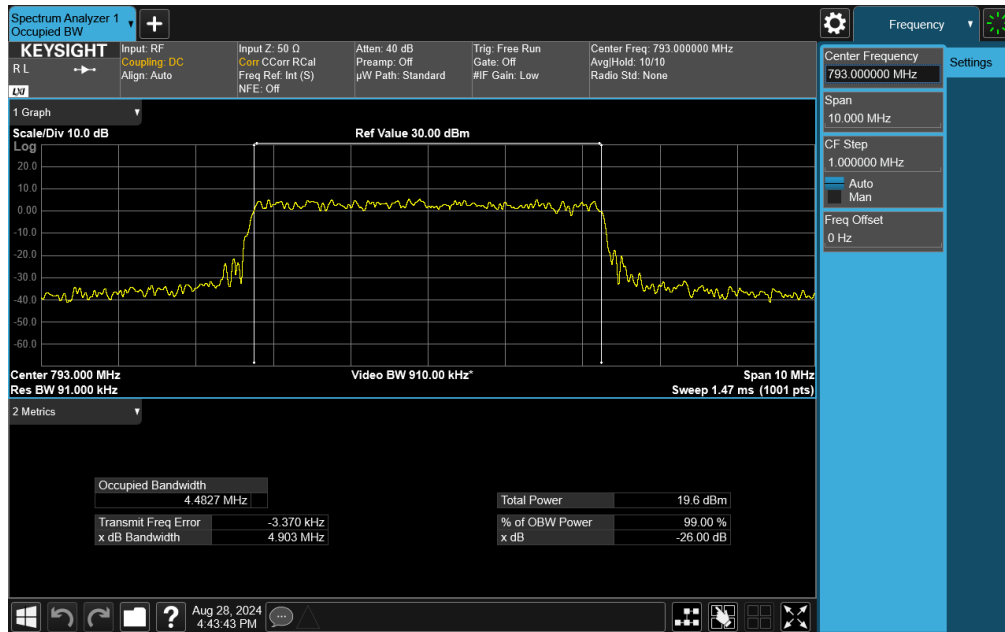


Plot 7-38. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM 64-QAM - Full RB)

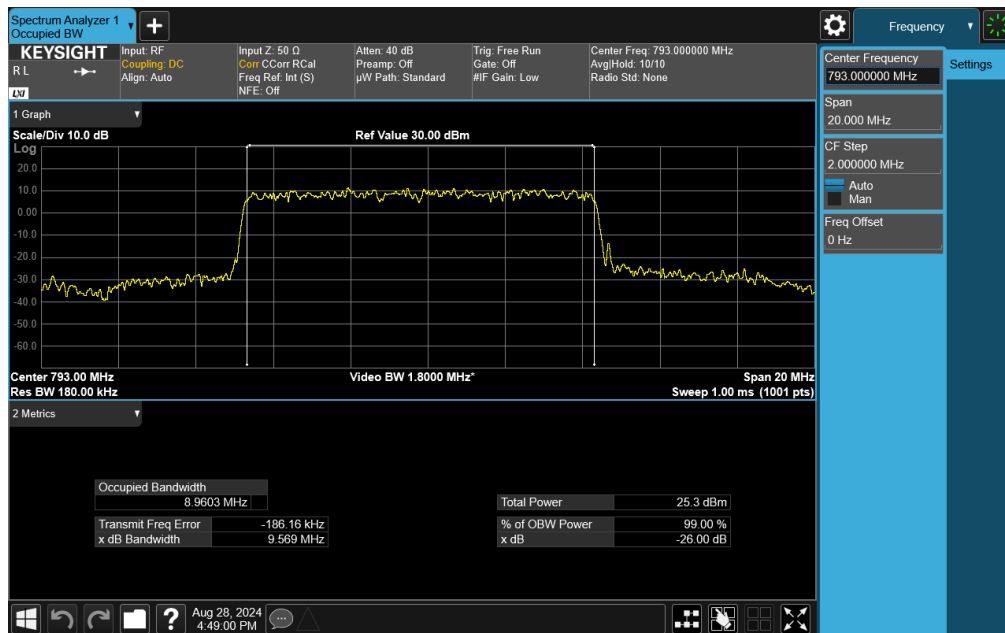
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-39. Occupied Bandwidth Plot (NR Band 14 - 5MHz CP-OFDM 256-QAM - Full RB)

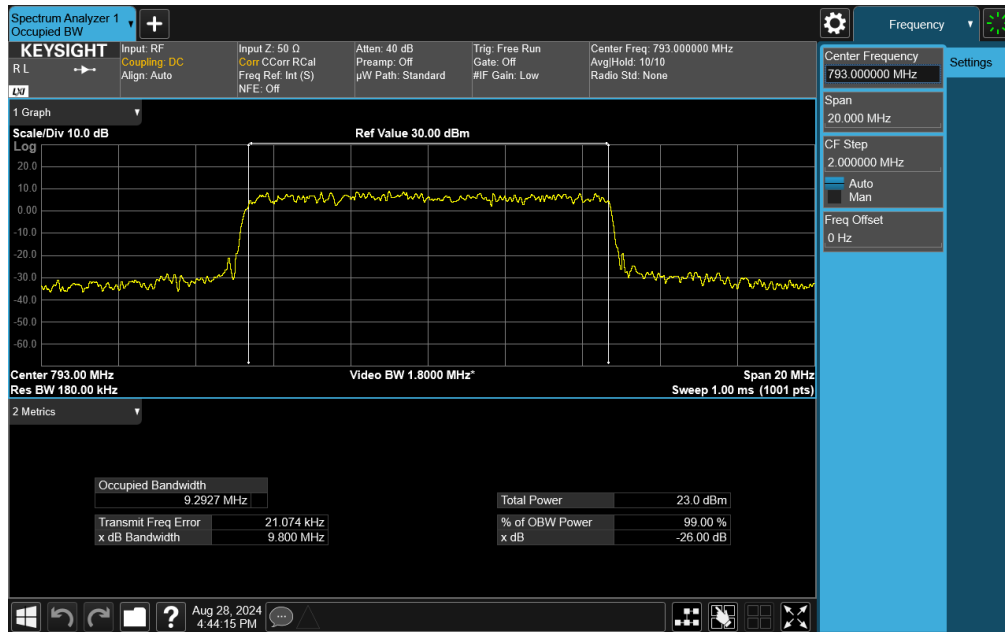


Plot 7-40. Occupied Bandwidth Plot (NR Band 14 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

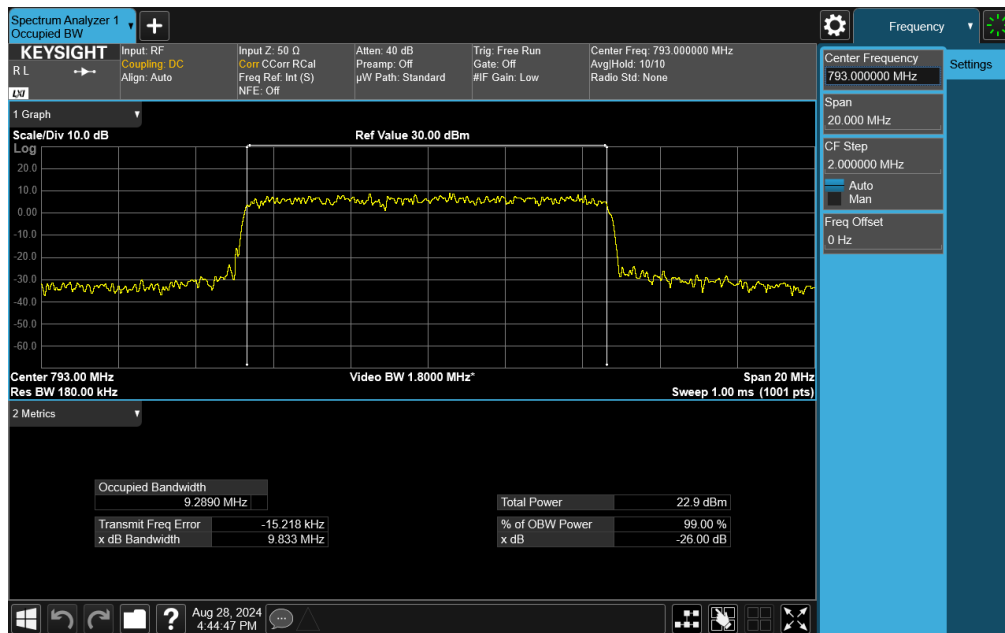
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-41. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM QPSK - Full RB)

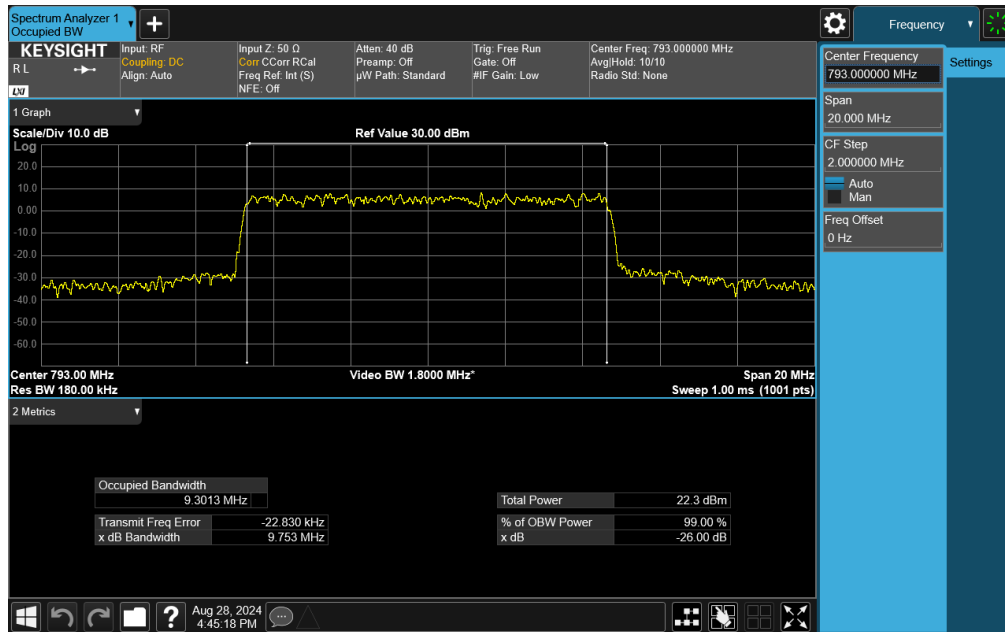


Plot 7-42. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 16-QAM - Full RB)

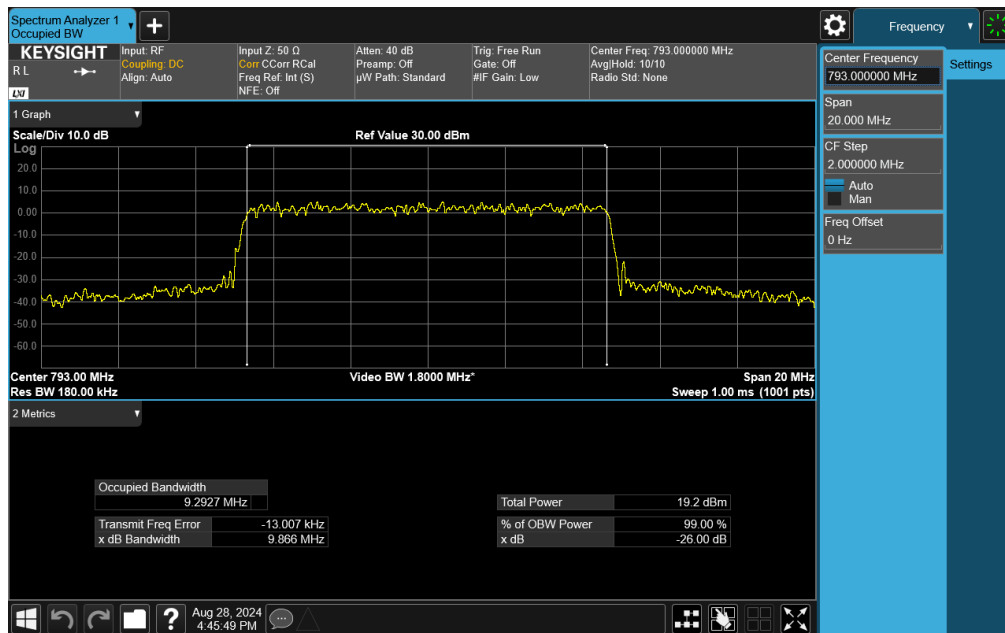
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-43. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 64-QAM - Full RB)



Plot 7-44. Occupied Bandwidth Plot (NR Band 14 - 10MHz CP-OFDM 256-QAM - Full RB)

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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 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation 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 $43 + 10 \log_{10}(P_{[Watts]})$, 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

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Test Setup

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

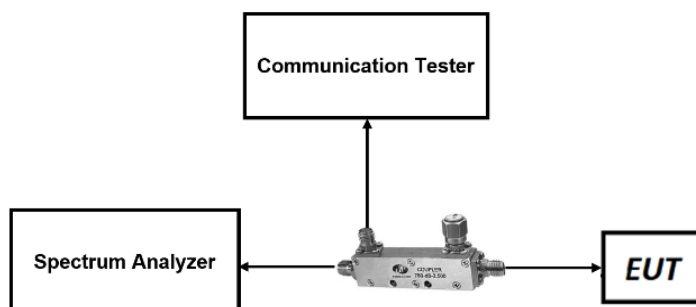


Figure 7-3. LTE Test Instrument & Measurement Setup

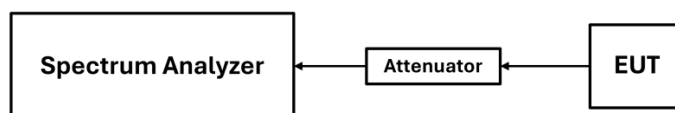



Figure 7-4. FR1 Test Instrument & Measurement Setup

Test Notes

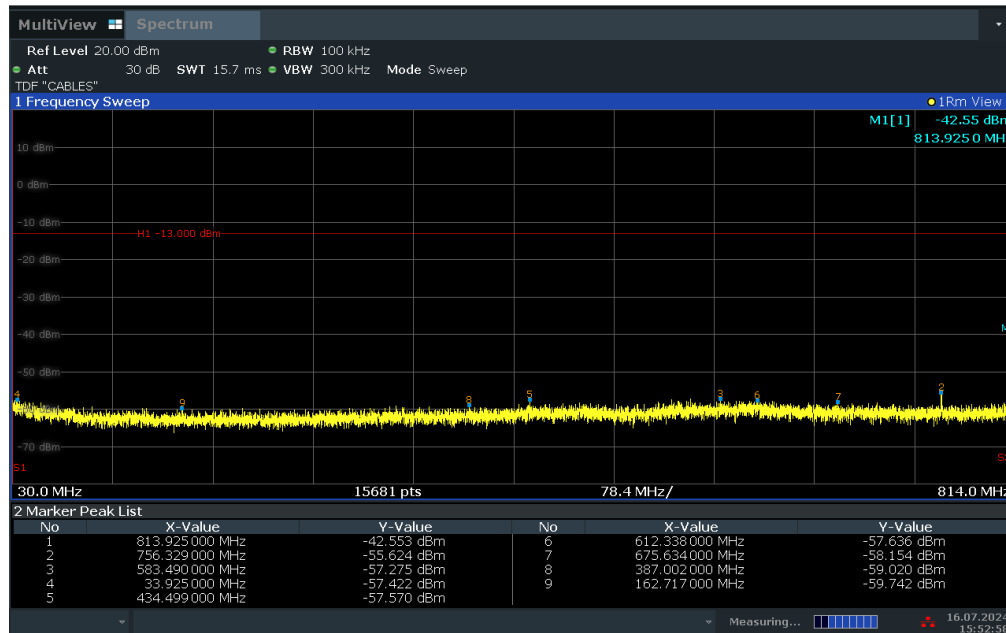
Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for Part 90. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission 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.

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LTE Band 26

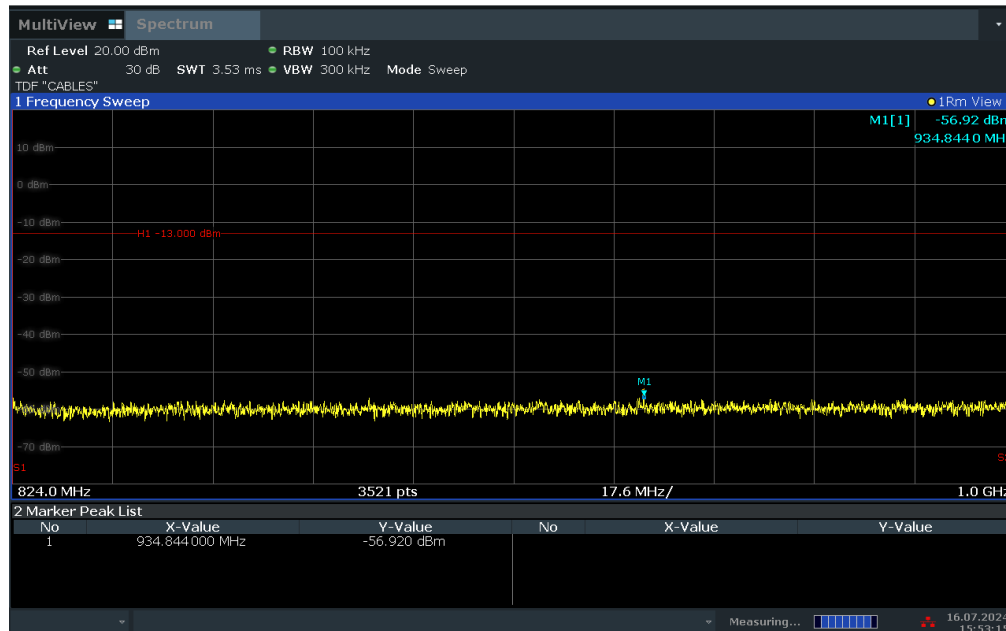
ACLRRResults



15:52:59 16.07.2024


Plot 7-45. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

ACLRRResults



15:53:15 16.07.2024

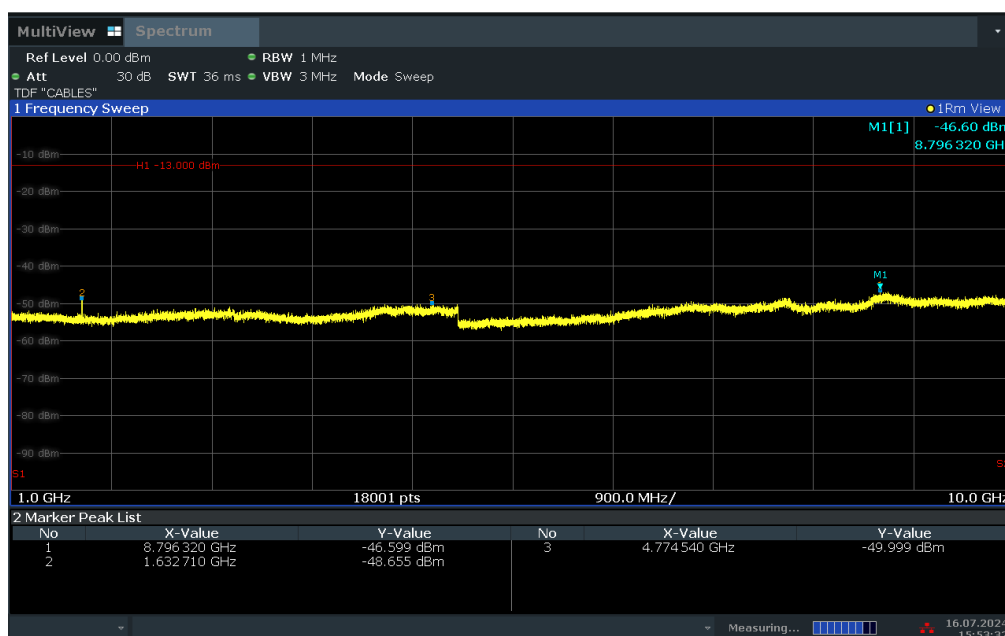
Plot 7-46. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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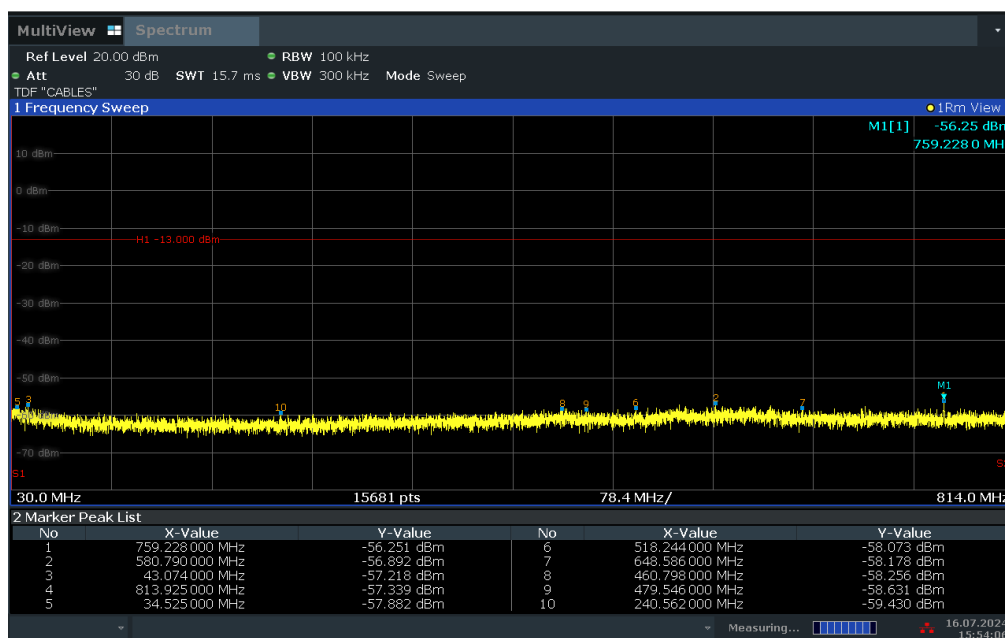
ACLRRResults



15:53:32 16.07.2024


Plot 7-47. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

ACLRRResults



15:54:07 16.07.2024

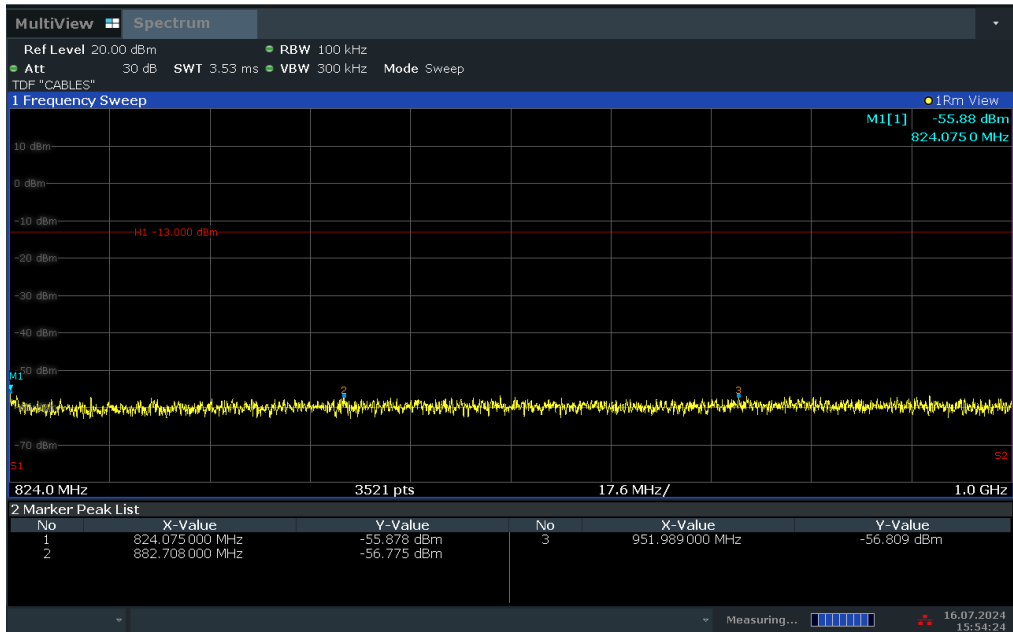
Plot 7-48. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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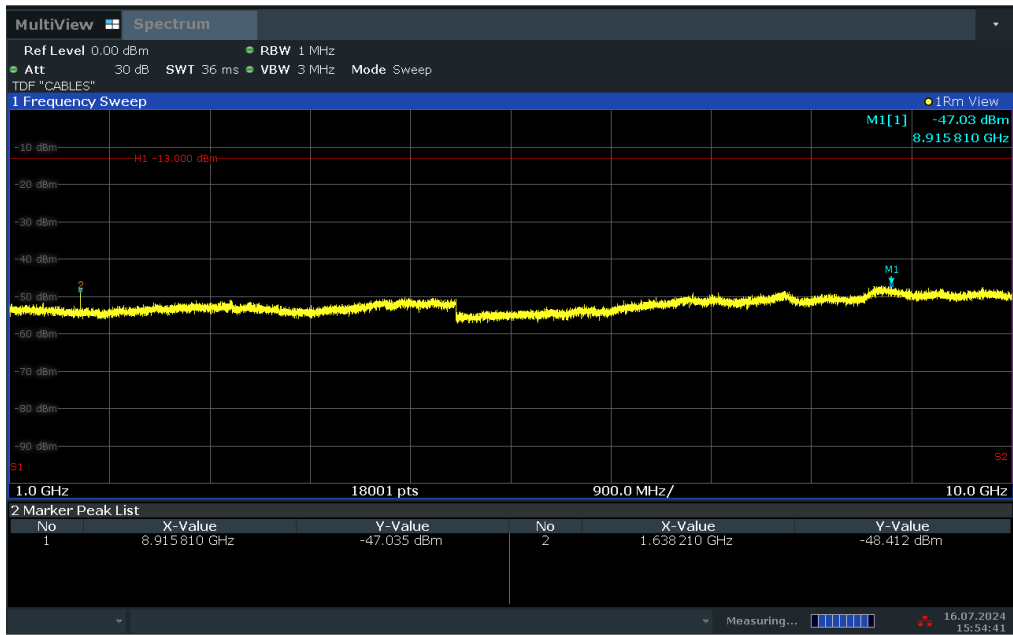
ACLRRResults



15:54:24 16.07.2024


Plot 7-49. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

ACLRRResults



15:54:41 16.07.2024

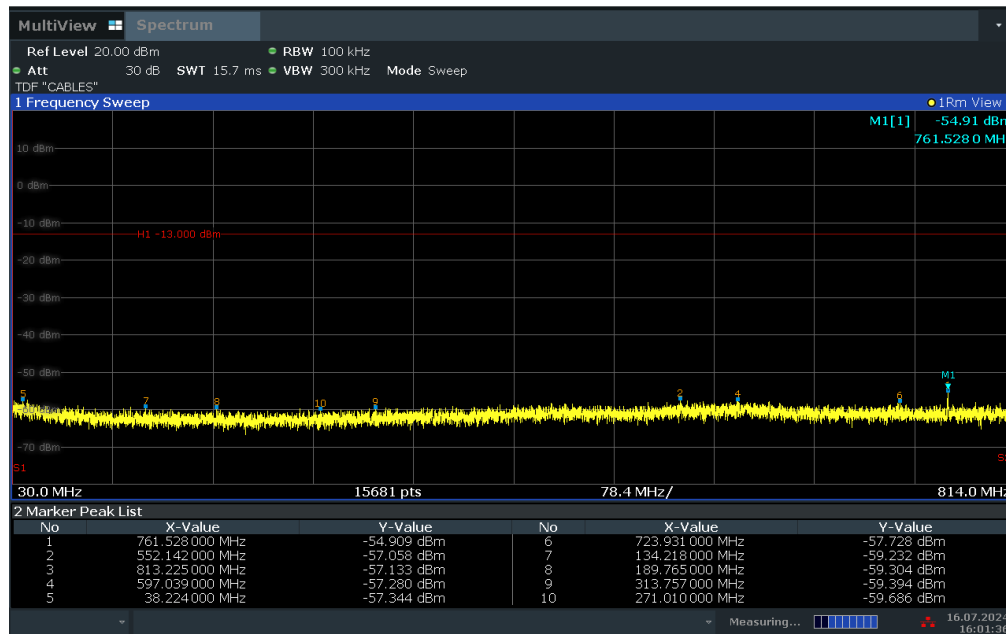
Plot 7-50. Conducted Spurious Plot (LTE Band 26 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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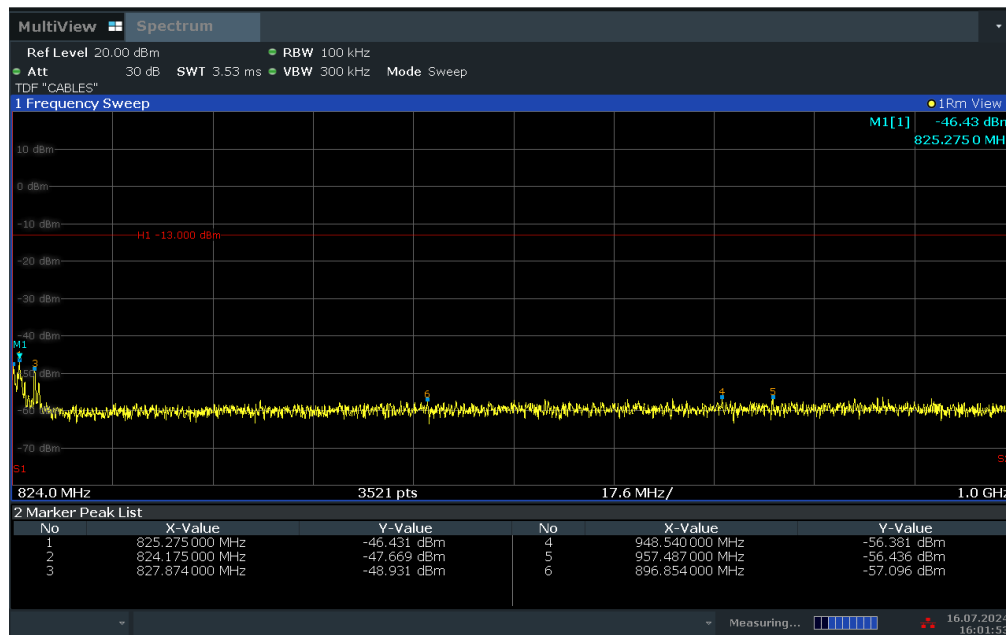
ACLRRResults



16:01:36 16.07.2024


Plot 7-51. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

ACLRRResults



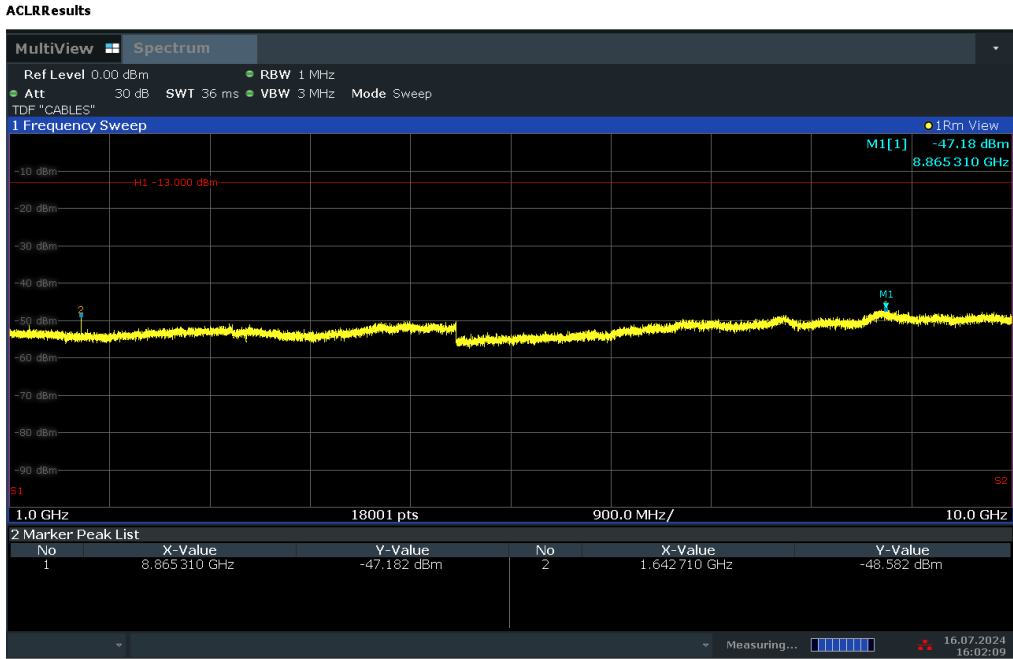
16:01:53 16.07.2024

Plot 7-52. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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16:02:10 16.07.2024

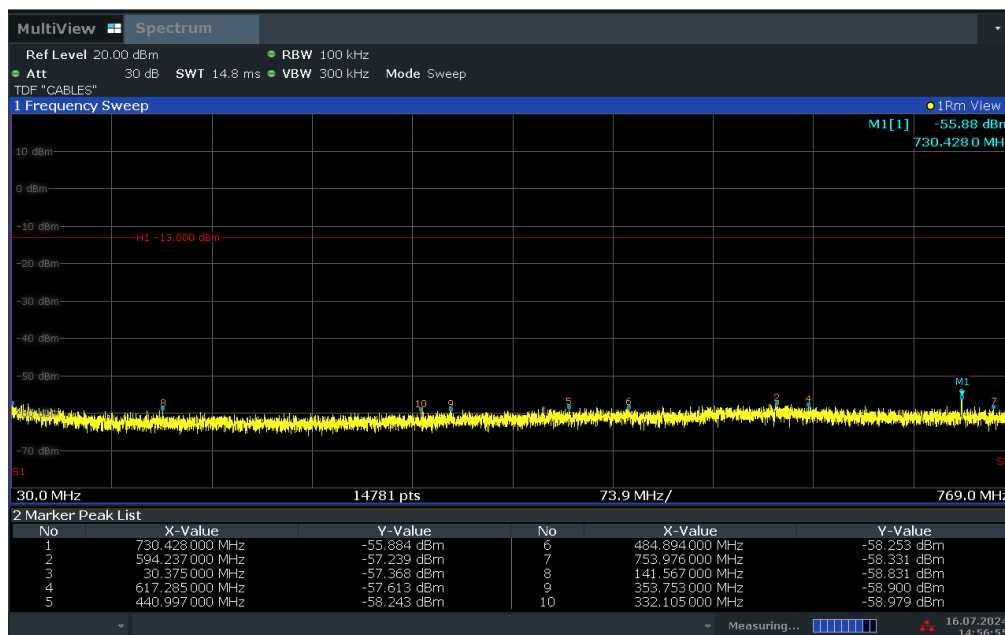
Plot 7-53. Conducted Spurious Plot (LTE Band 26 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 14

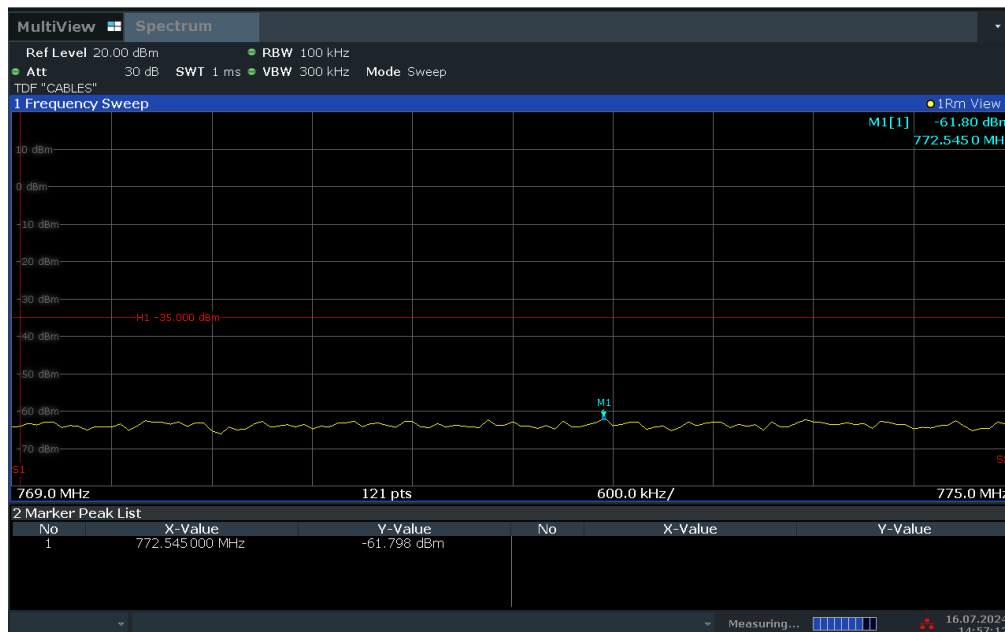
ACLRResults



14:56:56 16.07.2024


Plot 7-54. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

ACLRResults



14:57:13 16.07.2024

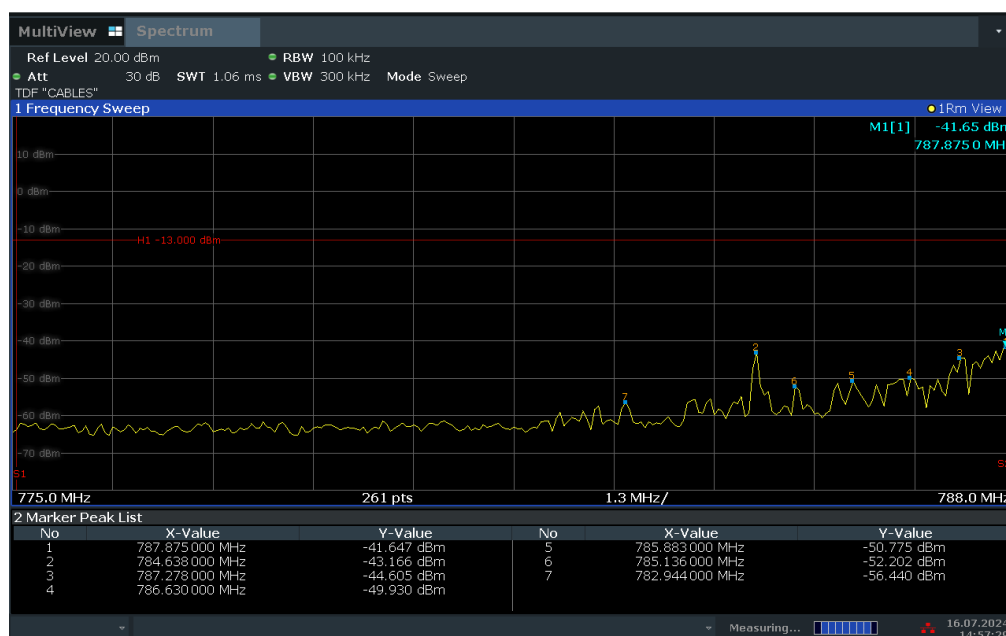
Plot 7-55. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3267		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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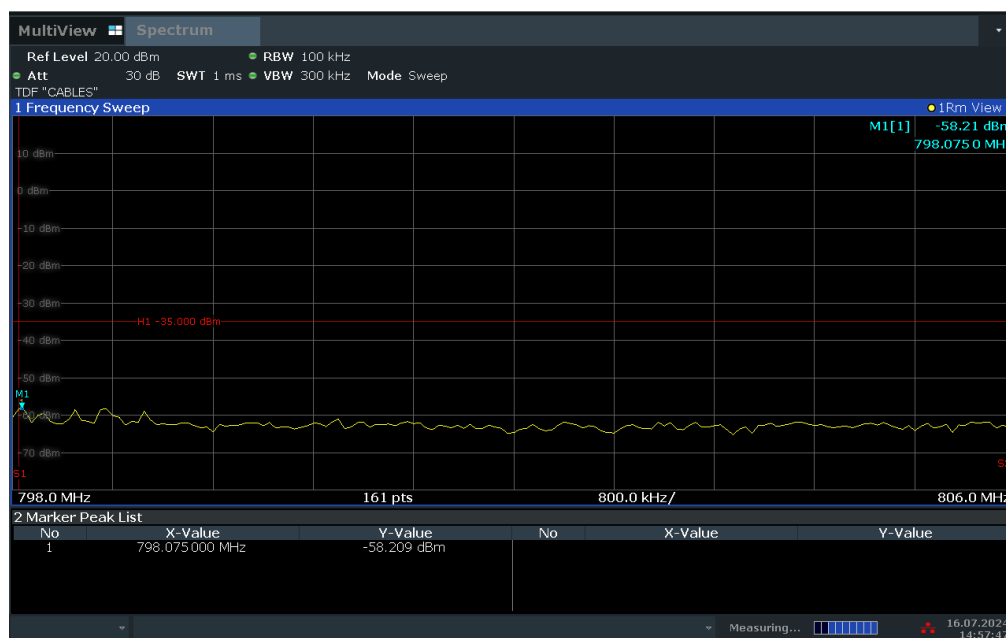
ACLRRResults



14:57:30 16.07.2024


Plot 7-56. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

ACLRRResults



14:57:47 16.07.2024

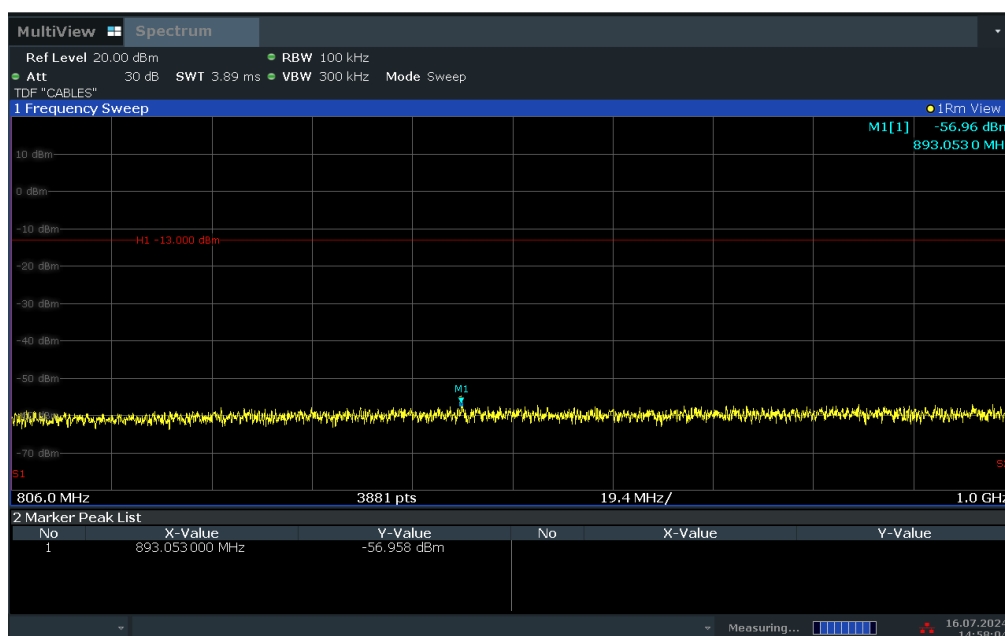
Plot 7-57. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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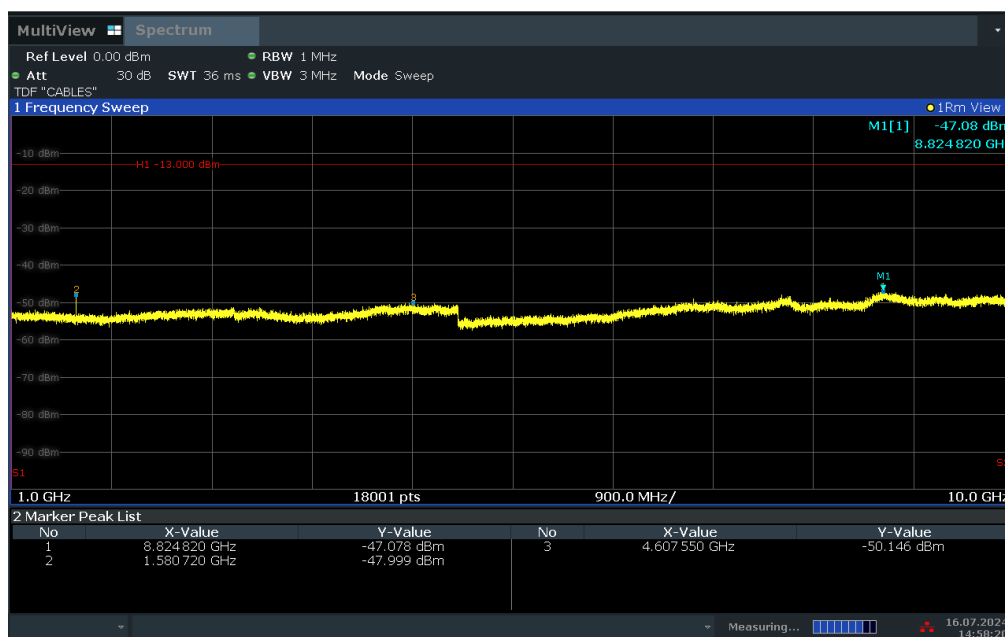
ACLRRResults



14:58:04 16.07.2024


Plot 7-58. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

ACLRRResults



14:58:21 16.07.2024

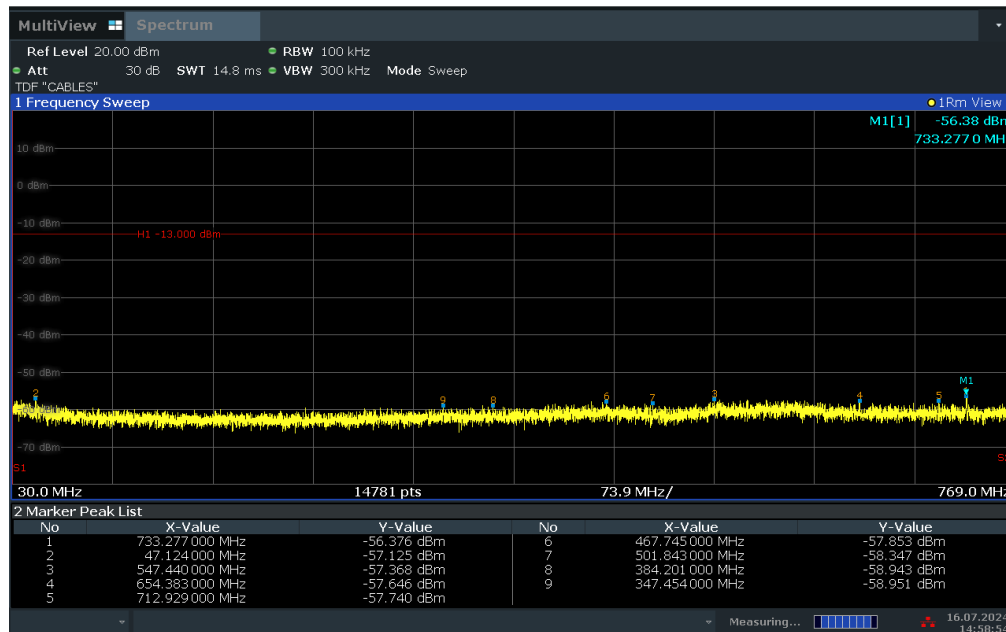
Plot 7-59. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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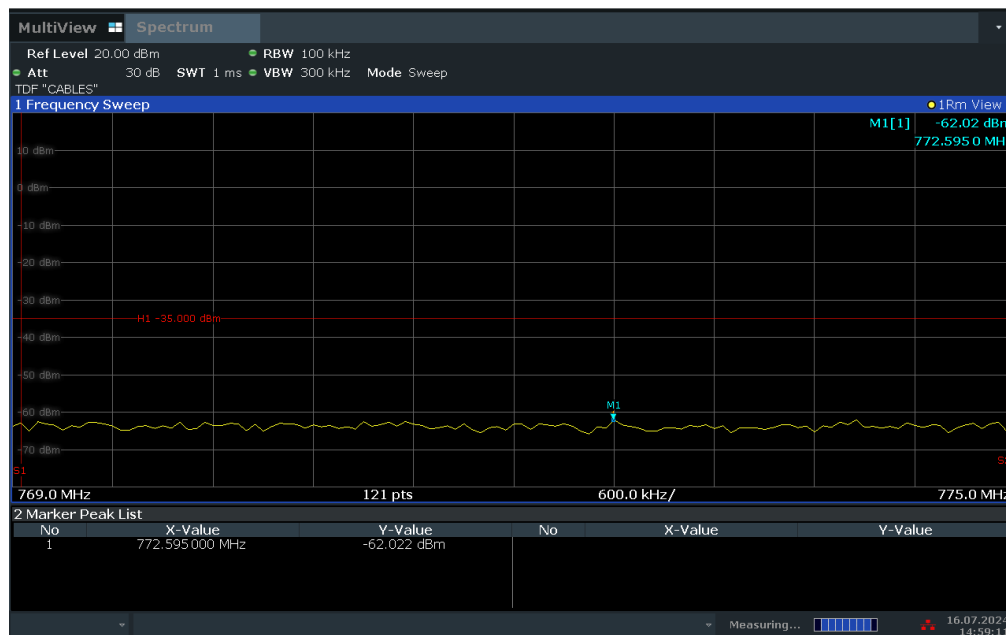
ACLRRResults



14:58:54 16.07.2024


Plot 7-60. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

ACLRRResults



14:59:11 16.07.2024

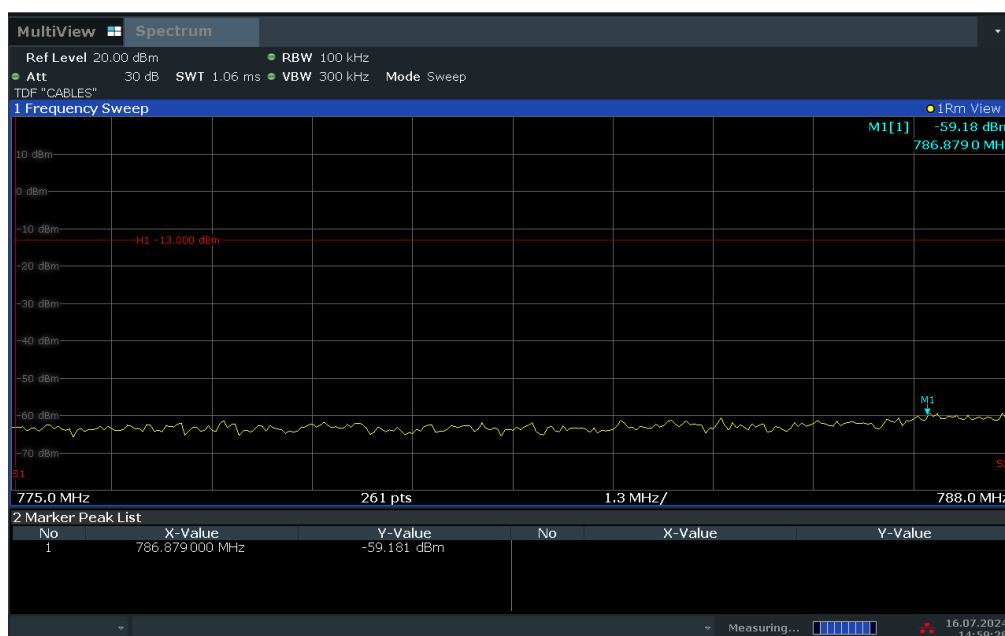
Plot 7-61. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3267		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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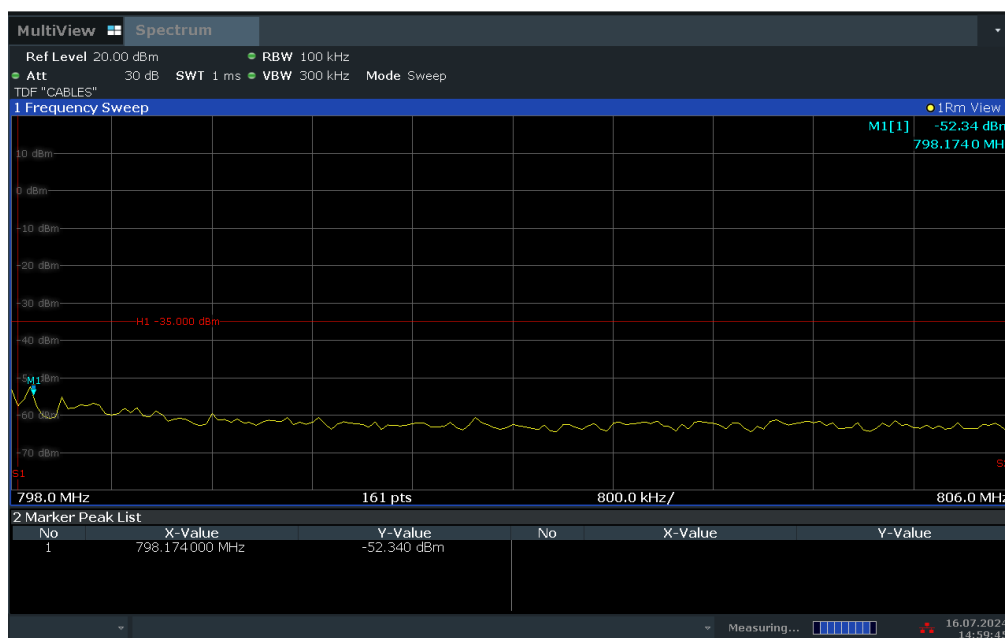
ACLRRResults



14:59:28 16.07.2024


Plot 7-62. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

ACLRRResults



14:59:46 16.07.2024

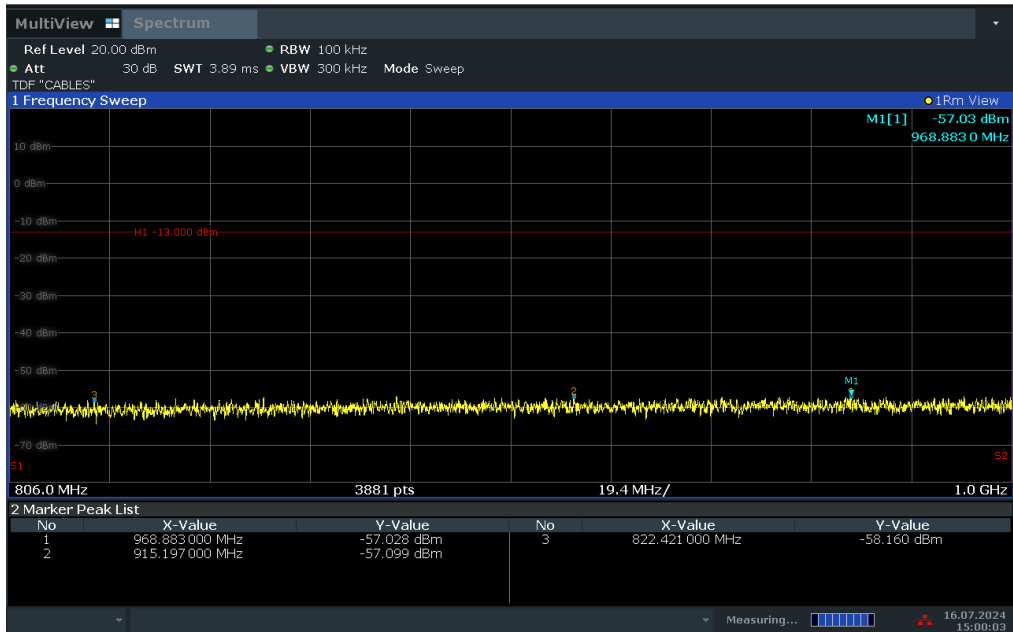
Plot 7-63. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3267		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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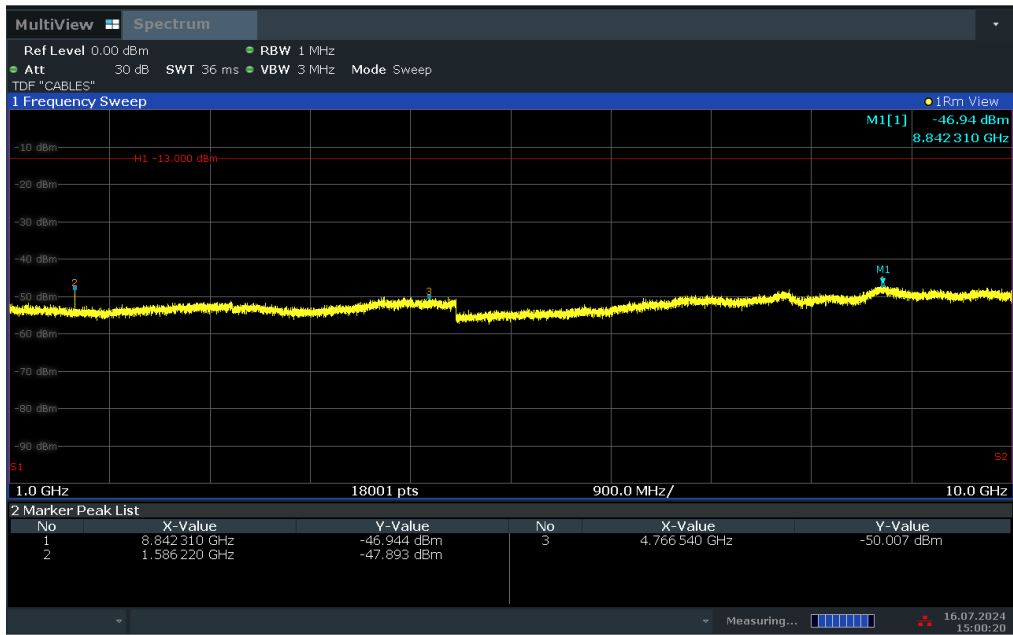
ACLRRResults



15:00:03 16.07.2024

Plot 7-64. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

ACLRRResults



15:00:20 16.07.2024

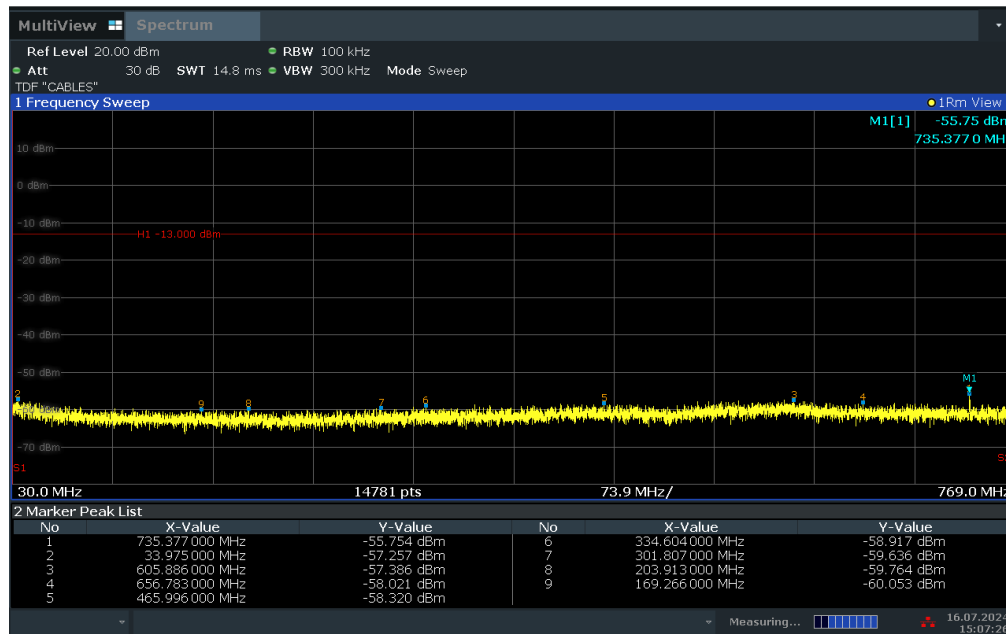
Plot 7-65. Conducted Spurious Plot (LTE Band 14 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3267	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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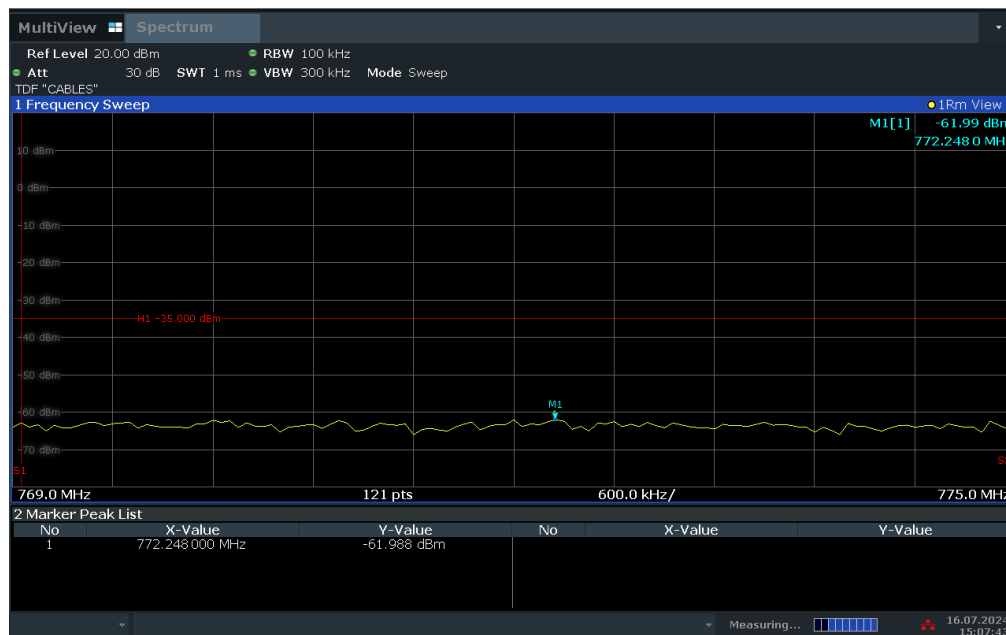
ACLRRResults



15:07:26 16.07.2024


Plot 7-66. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

ACLRRResults



15:07:43 16.07.2024

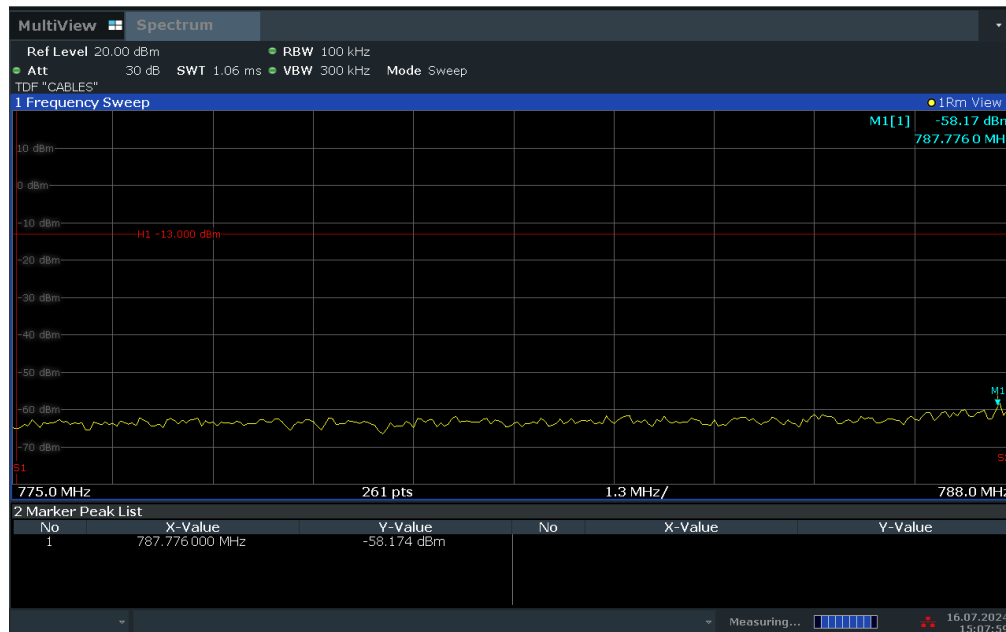
Plot 7-67. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3267		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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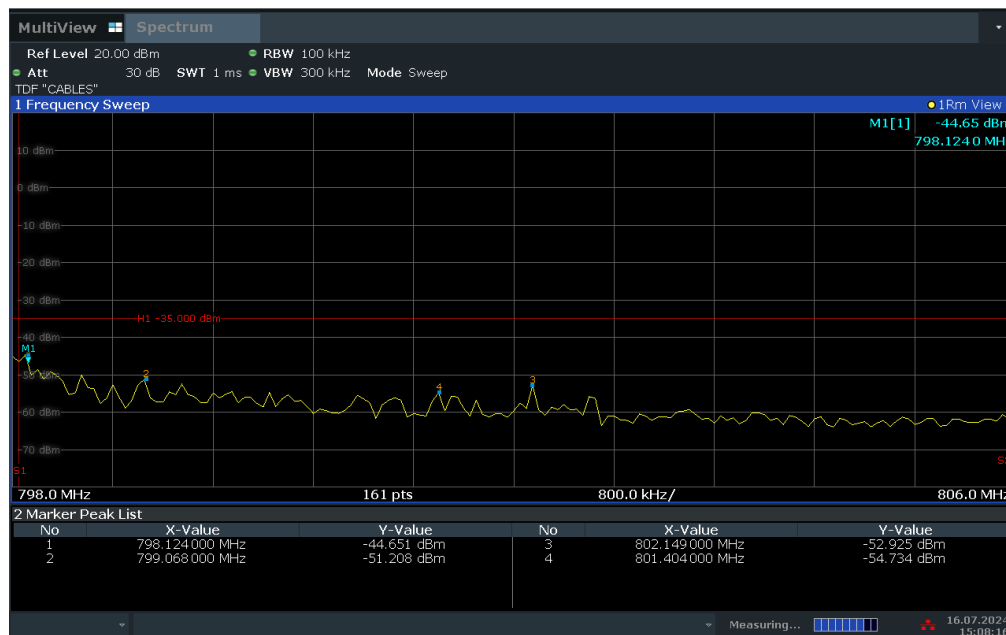
ACLRRResults



15:08:00 16.07.2024


Plot 7-68. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

ACLRRResults



15:08:17 16.07.2024

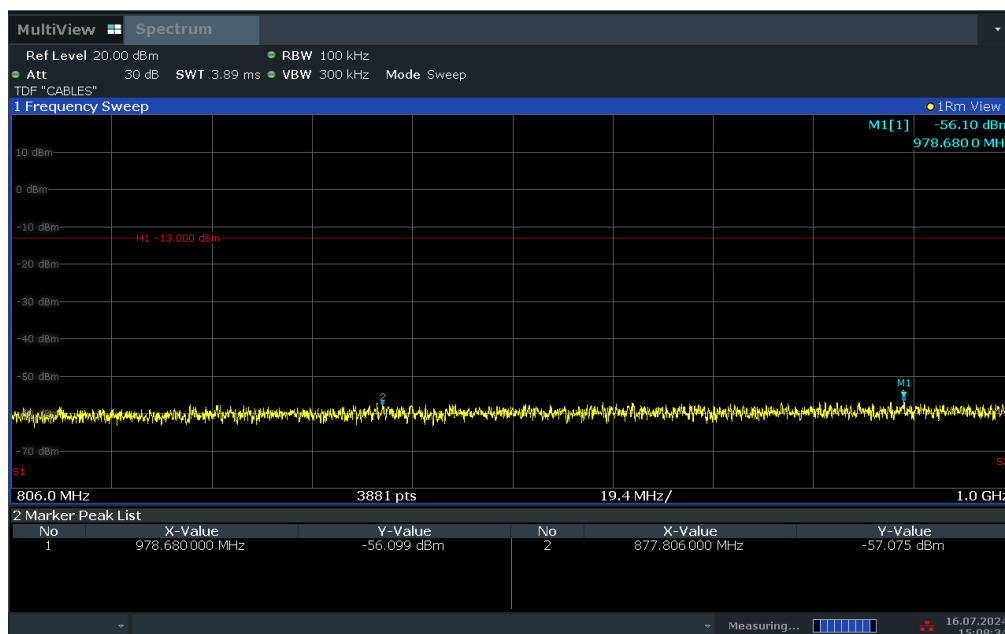
Plot 7-69. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3267		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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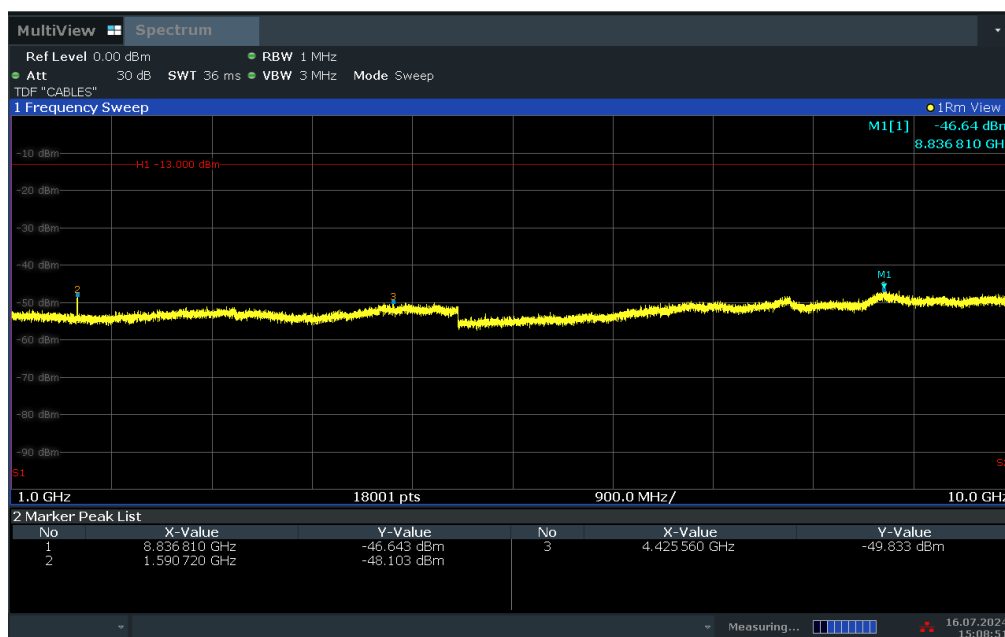
ACLRRResults



15:08:34 16.07.2024


Plot 7-70. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

ACLRRResults



15:08:51 16.07.2024

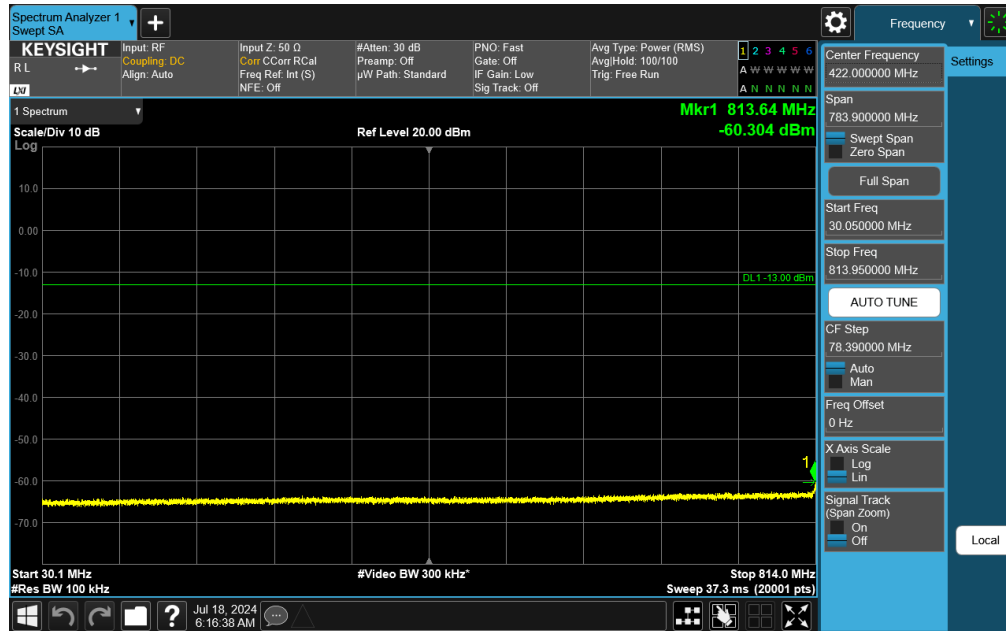
Plot 7-71. Conducted Spurious Plot (LTE Band 14 - 5MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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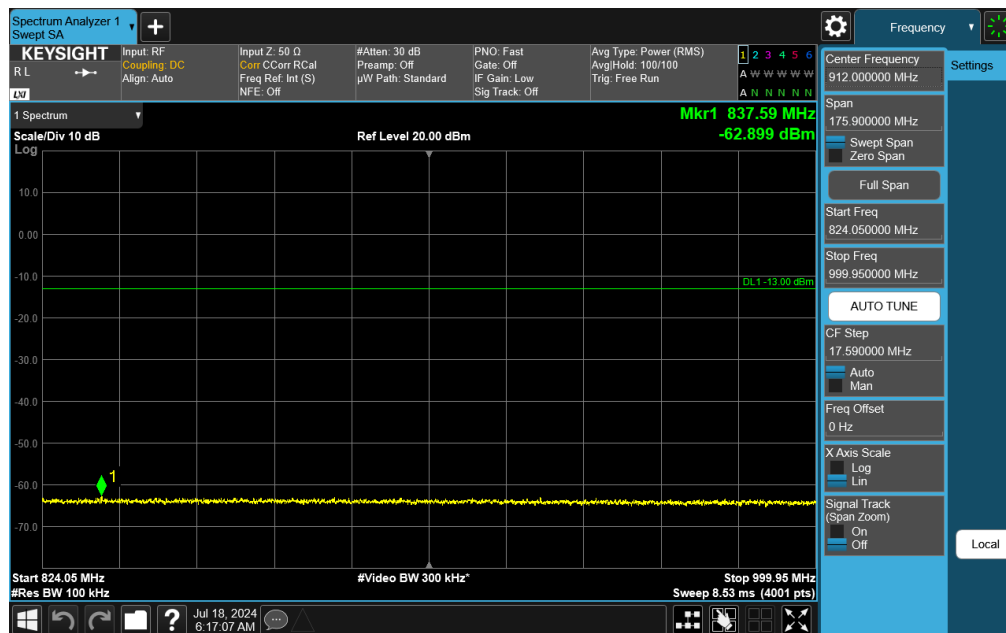
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NR Band 26



Plot 7-72. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

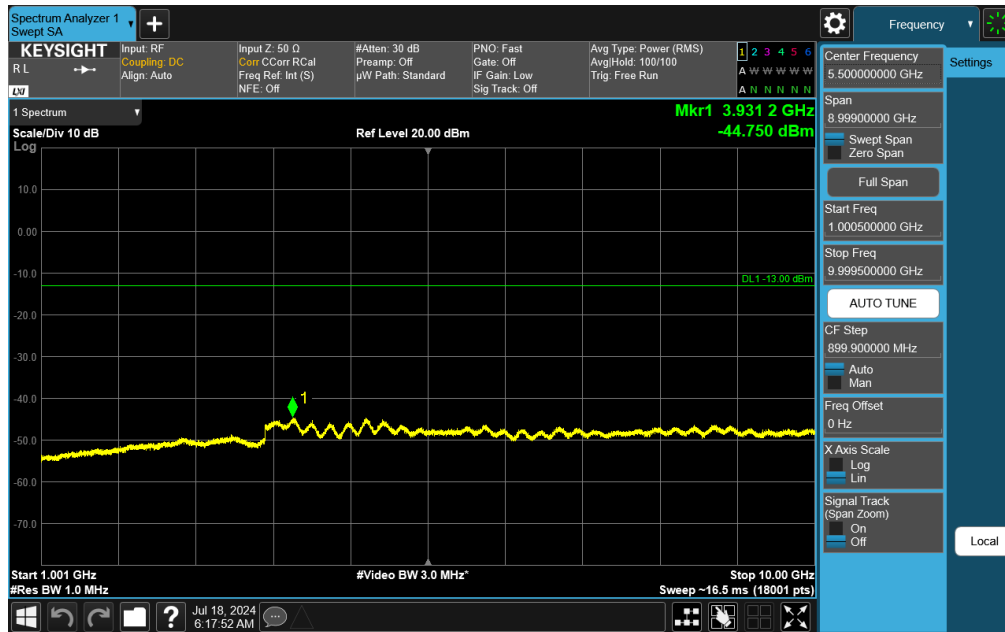


Plot 7-73. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

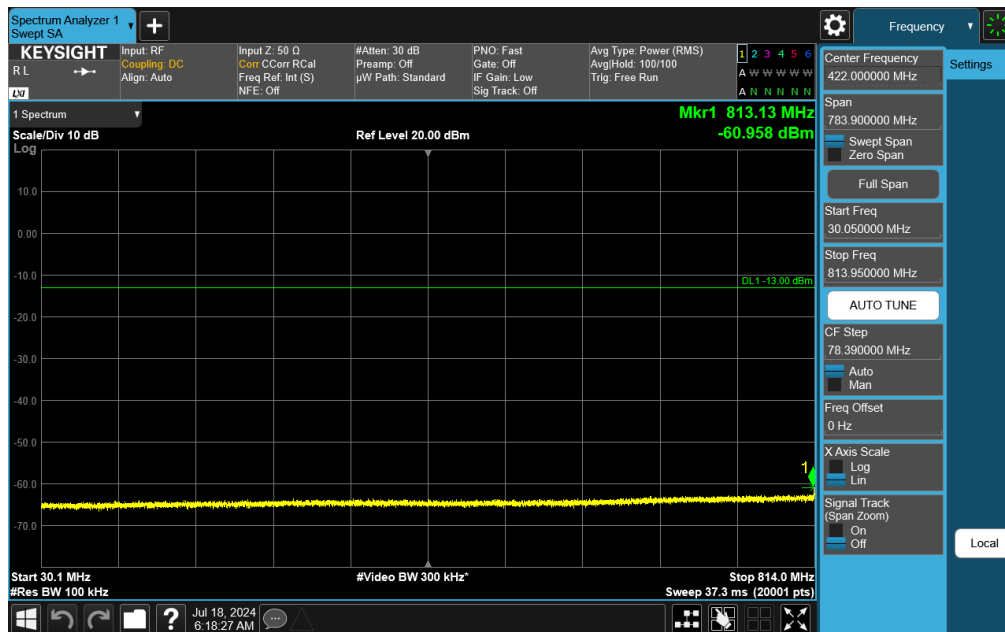
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-74. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

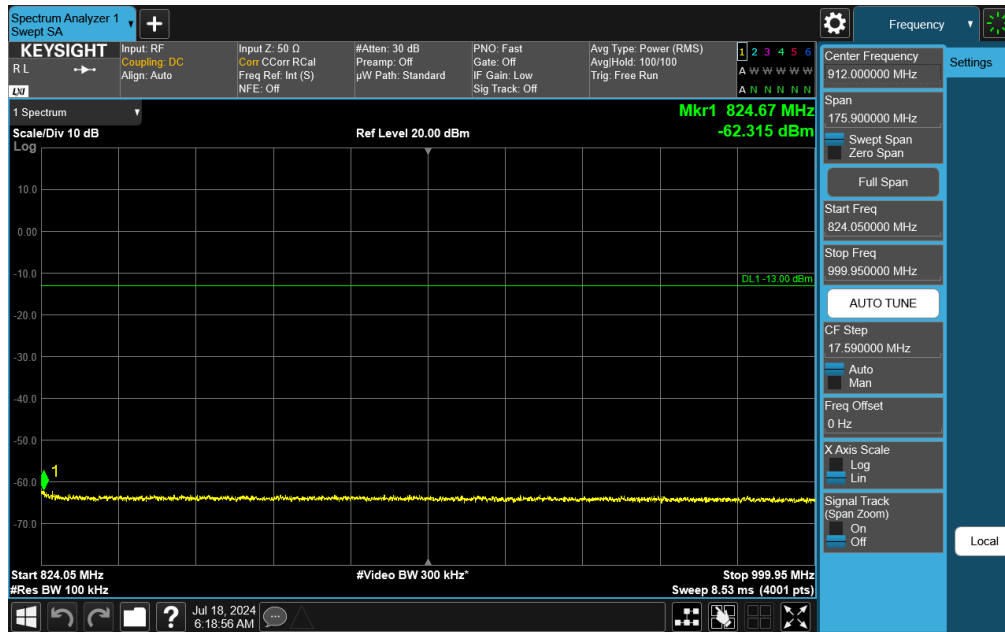


Plot 7-75. Conducted Spurious Plot (NR Band 26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

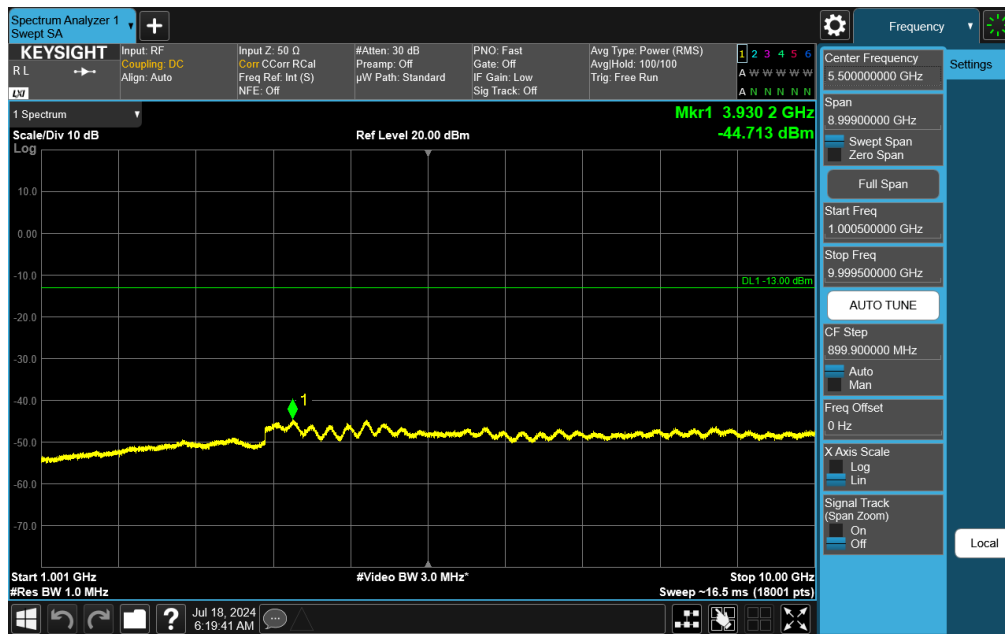
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-76. Conducted Spurious Plot (NR Band 26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

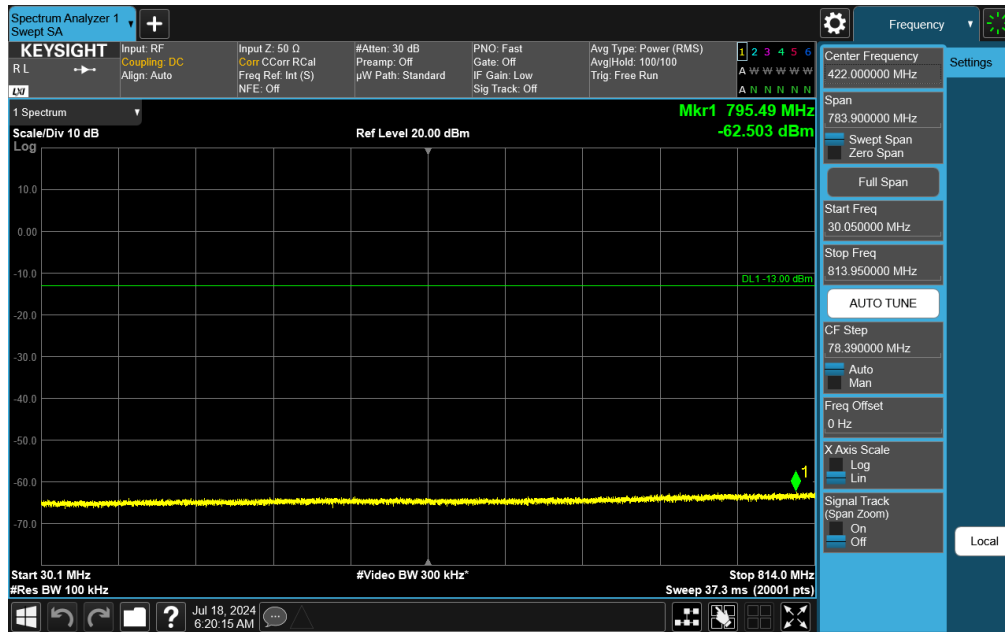


Plot 7-77. Conducted Spurious Plot (NR Band 26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

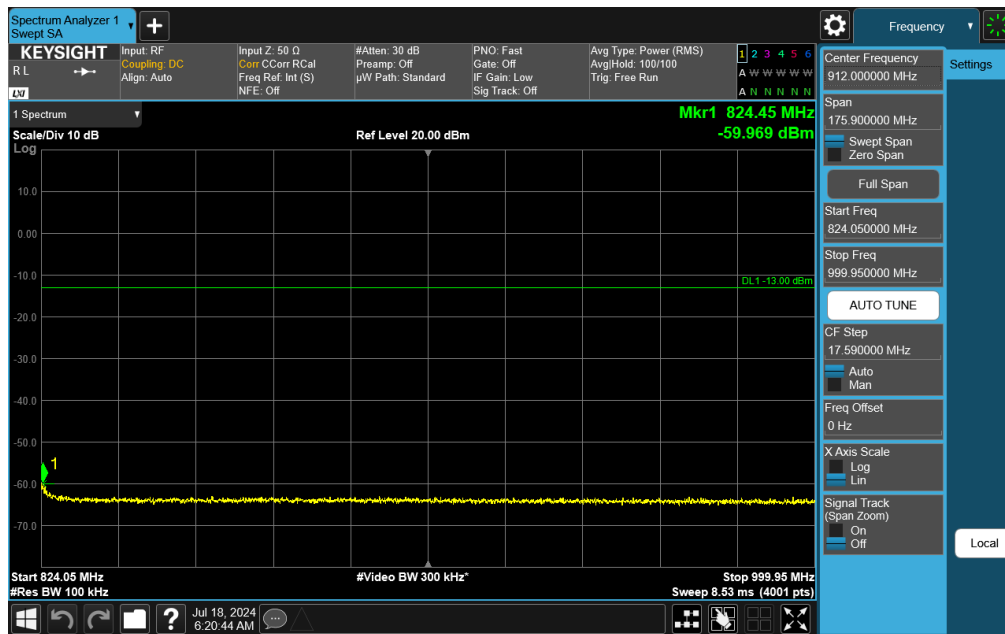
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-78. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

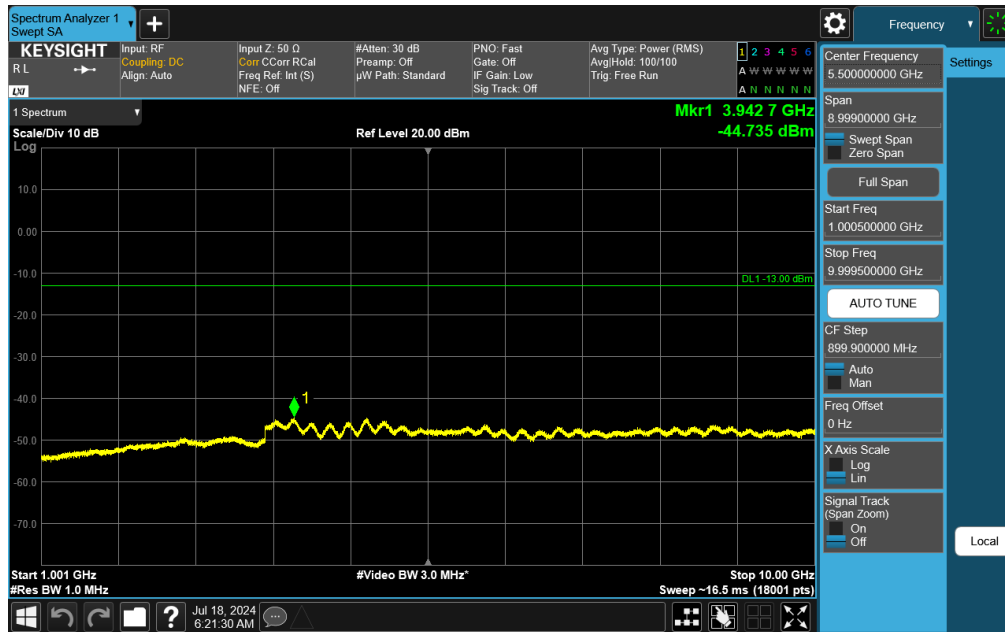


Plot 7-79. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)


FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
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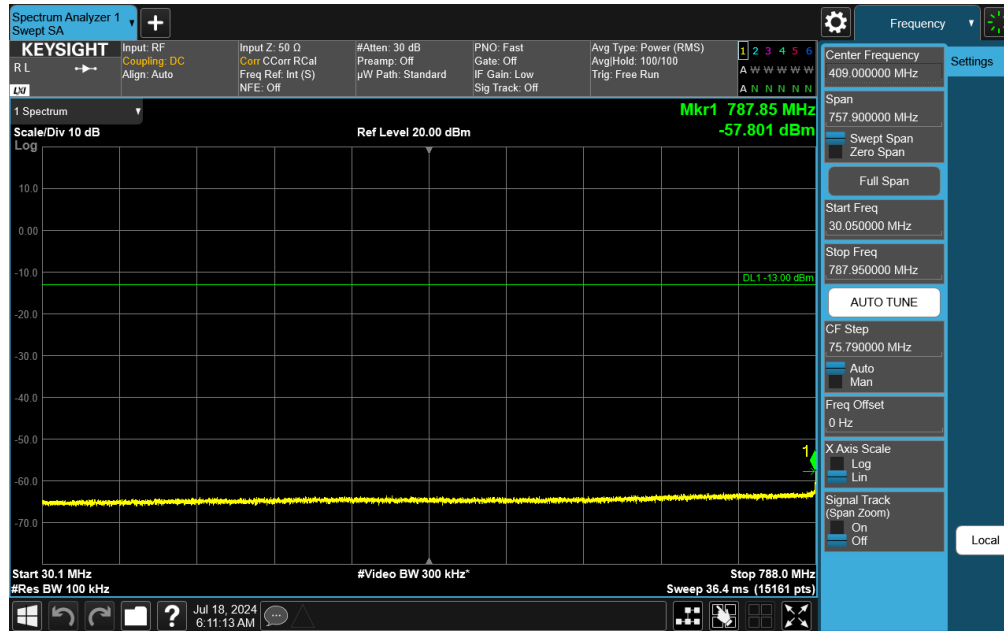


Plot 7-80. Conducted Spurious Plot (NR Band 26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

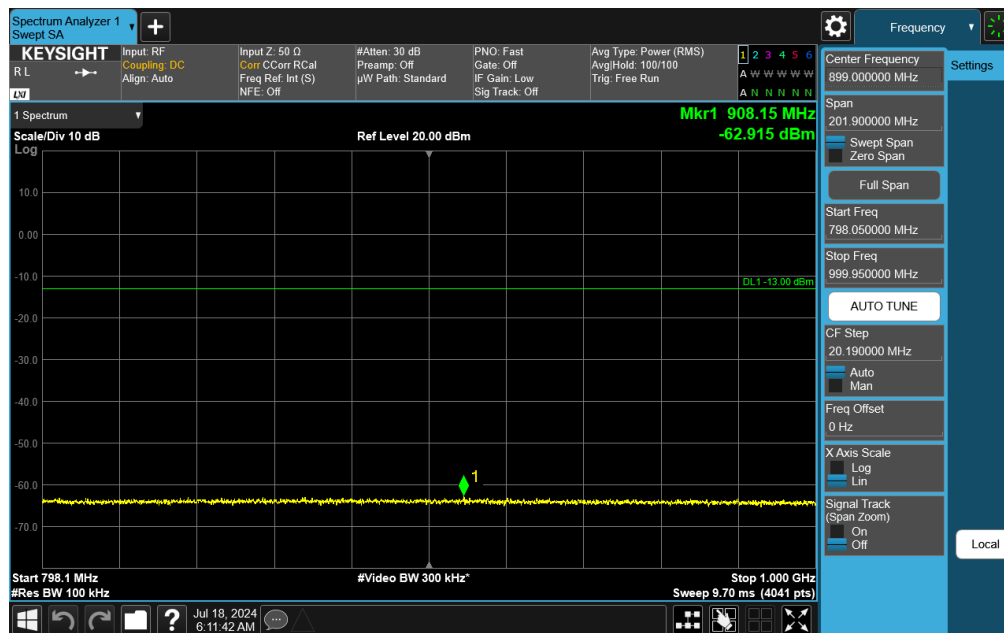
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band 14



Plot 7-81. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

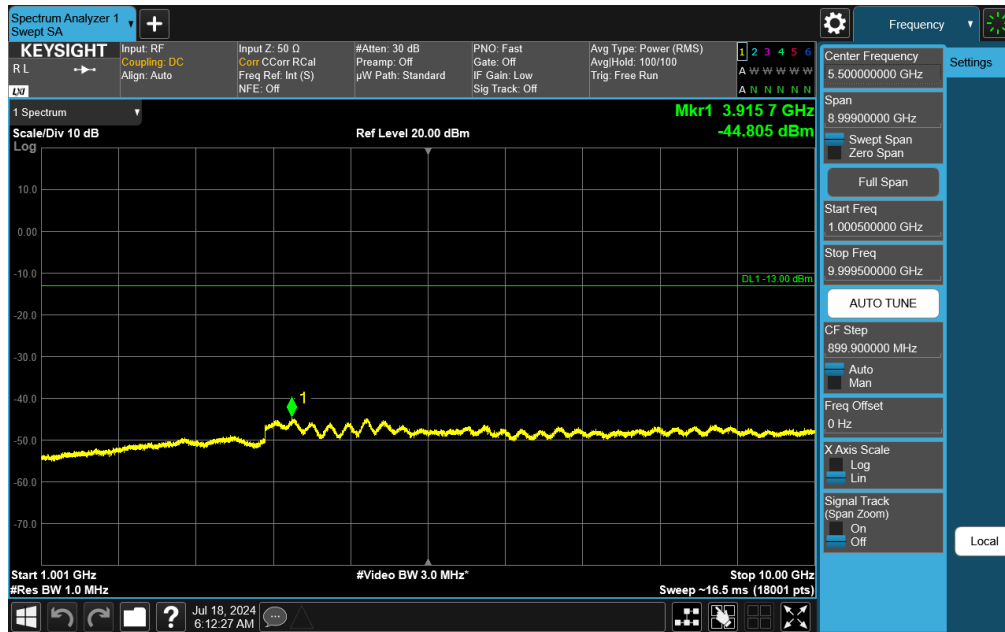


Plot 7-82. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

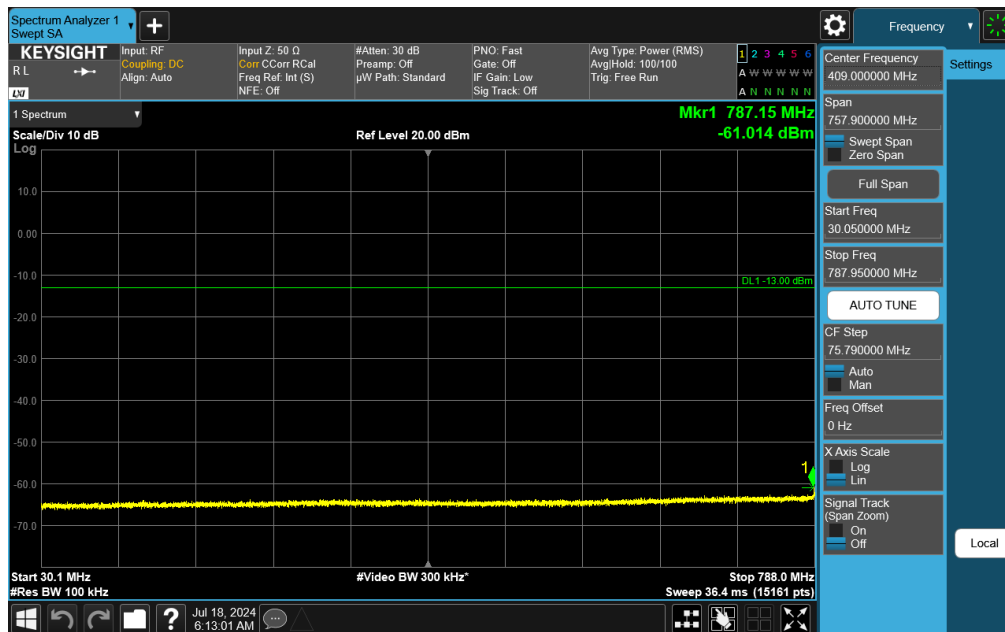
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-83. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

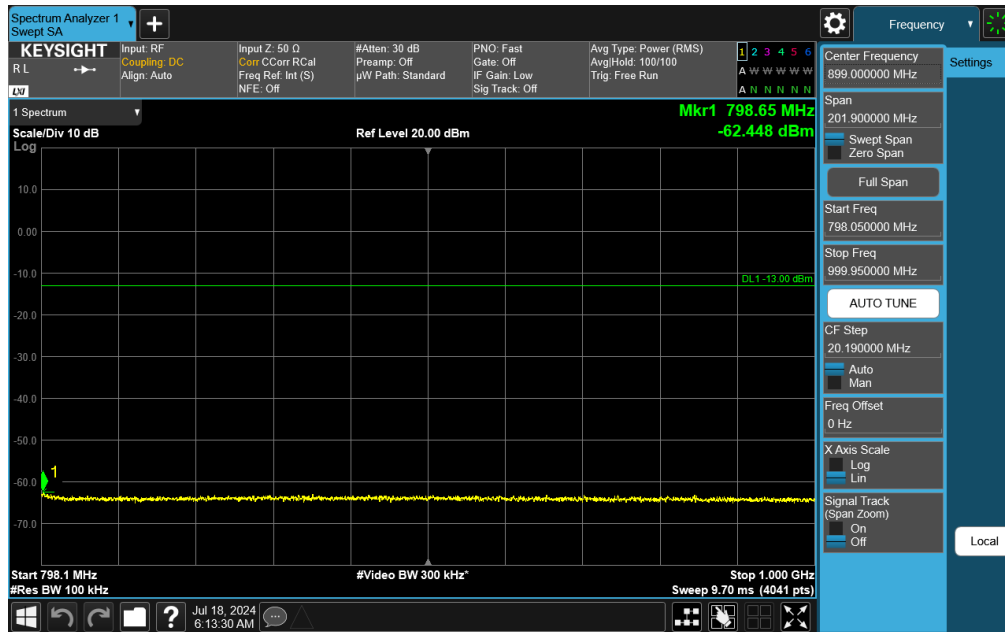


Plot 7-84. Conducted Spurious Plot (NR Band 14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

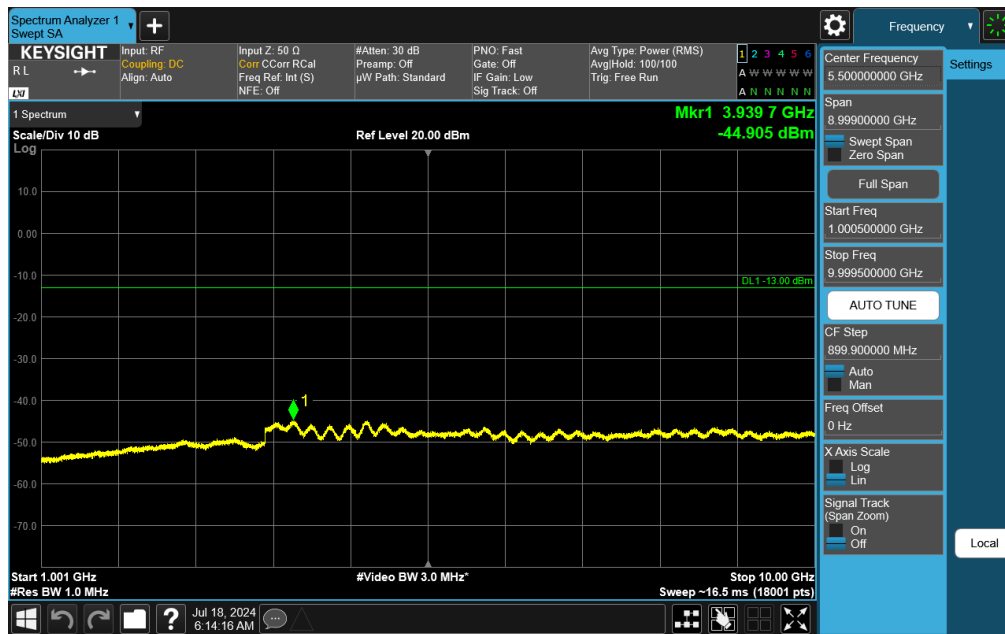
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-85. Conducted Spurious Plot (NR Band 14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

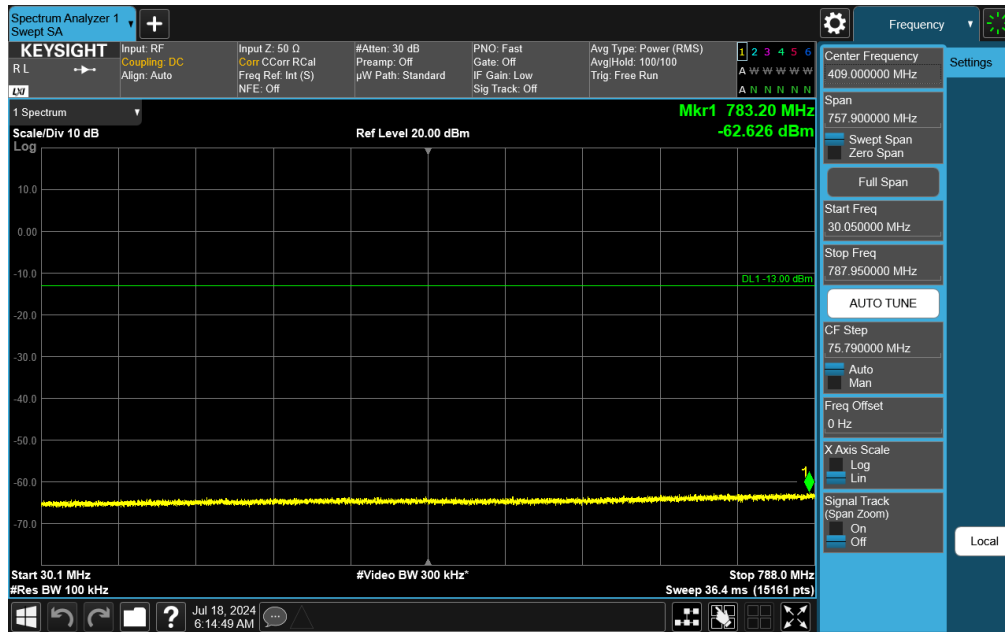


Plot 7-86. Conducted Spurious Plot (NR Band 14 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

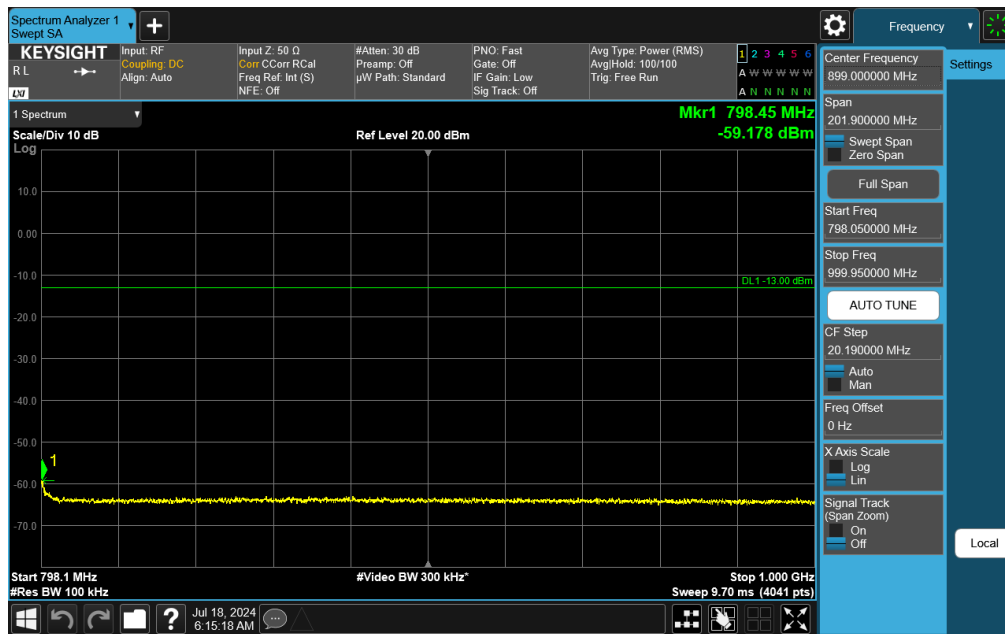
FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-87. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

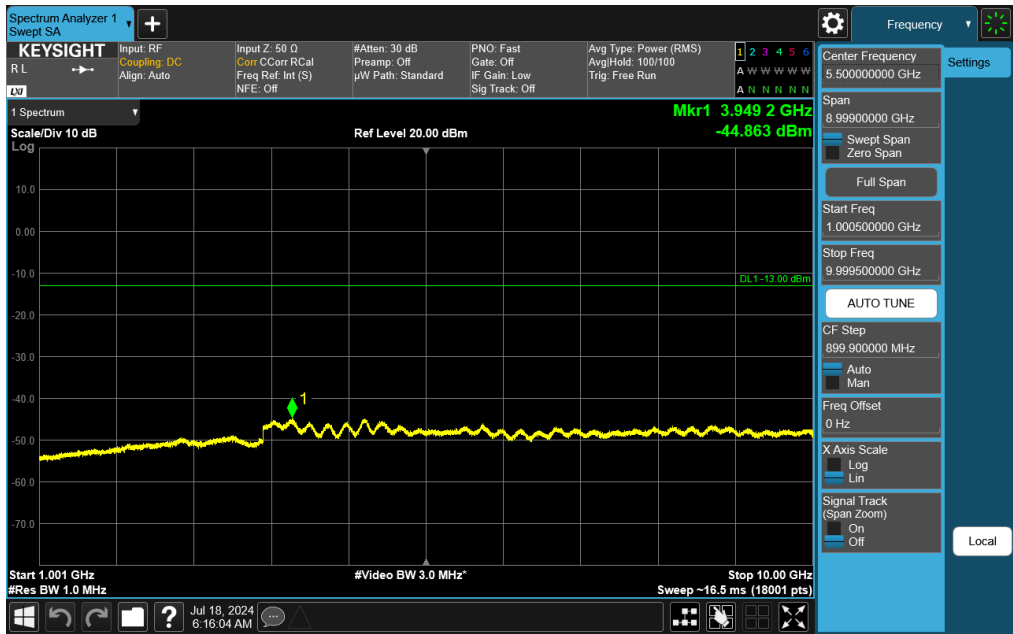


Plot 7-88. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3267	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-89. Conducted Spurious Plot (NR Band 14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

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7.4 Band Edge Emissions at Antenna Terminal

~~§2.1051~~ ~~§90.691(a)~~ ~~§90.543(e)~~

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

For LTE B26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

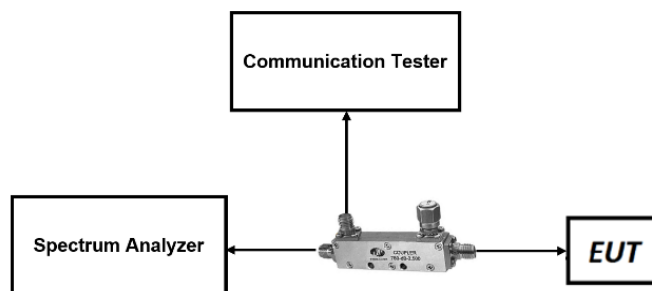


Figure 7-5. LTE Instrument & Measurement Setup

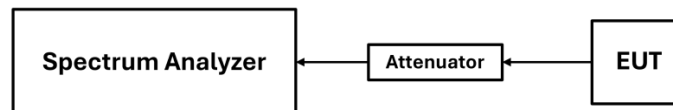




Figure 7-6. FR1 Instrument & Measurement Setup

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Test Notes

1. Per Part 90, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center.
2. For LTE Band 14 and NR Band n14 operation under Part 90.543, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10\log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.
3. Additionally, for LTE Band 14 and NR Band n14 operation, on all frequencies between 769-775 MHz and 799-805 MHz, the power of any emission shall be attenuated by a factor not less than $65 + 10\log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

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