



PART 96 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

11/29/2021-02/02/2022

Test Site/Location:

PCTEST Morgan Hill, CA, USA

Test Report Serial No.:

1C2111150079-07.BCG

FCC ID:

BCGA2589

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A2589(A2591)

EUT Type:

Tablet Device

FCC Classification:

Citizens Band End User Devices (CBE)

FCC Rule Part:

96

Test Procedure(s):

ANSI C63.26-2015, ANSI/TIA-603-E-2016,
KDB 971168 D01 v03r01, KDB 940660 D01 v03,
WINNF-TS-0122 v1.0.2


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

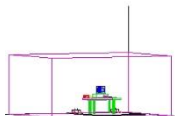


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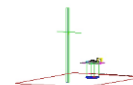
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
LTE Band 48	5 MHz	QPSK	3552.5 - 3697.5	4.5278	5.50	0.158	22.00	4M53G7W
		16QAM	3552.5 - 3697.5	4.5048	6.34	0.125	20.98	4M50D7W
		64QAM	3552.5 - 3697.5	4.5094	7.05	0.108	20.34	4M51D7W
		256QAM	3552.5 - 3697.5	4.5009	7.07	0.053	17.27	4M50D7W
	10 MHz	QPSK	3555.0 - 3695.0	8.9569	5.47	0.158	22.00	8M96G7W
		16QAM	3555.0 - 3695.0	9.0020	6.48	0.124	20.94	9M00D7W
		64QAM	3555.0 - 3695.0	9.0055	7.10	0.104	20.18	9M01D7W
		256QAM	3555.0 - 3695.0	8.9808	7.08	0.051	17.04	8M98D7W
	15 MHz	QPSK	3557.5 - 3692.5	13.4567	5.52	0.158	22.00	13M5G7W
		16QAM	3557.5 - 3692.5	13.5250	6.86	0.134	21.26	13M5D7W
		64QAM	3557.5 - 3692.5	13.4990	7.19	0.102	20.08	13M5D7W
		256QAM	3557.5 - 3692.5	13.4921	7.01	0.057	17.55	13M5D7W
	20 MHz	QPSK	3560.0 - 3690.0	17.9954	5.37	0.158	22.00	18M0G7W
		16QAM	3560.0 - 3690.0	18.0217	6.16	0.133	21.24	18M0D7W
		64QAM	3560.0 - 3690.0	17.9779	7.27	0.104	20.15	18M0D7W
		256QAM	3560.0 - 3690.0	17.9425	7.03	0.060	17.81	17M9D7W
LTE ULCA Band 48	20 + 5 MHz	QPSK	3562.5 - 3687.5	22.9589	-	0.158	22.00	23M0G7W
		16QAM	3562.5 - 3687.5	22.9891	-	0.083	19.20	23M0D7W
		64QAM	3562.5 - 3687.5	22.9599	-	0.082	19.15	23M0D7W
		256QAM	3562.5 - 3687.5	23.0206	-	0.052	17.16	23M0D7W
	20 + 10 MHz	QPSK	3565.0 - 3685.0	27.8358	-	0.158	22.00	27M8G7W
		16QAM	3565.0 - 3685.0	27.8375	-	0.081	19.09	27M8D7W
		64QAM	3565.0 - 3685.0	27.8187	-	0.081	19.08	27M8D7W
		256QAM	3565.0 - 3685.0	27.7487	-	0.054	17.29	27M7D7W
	20 + 15 MHz	QPSK	3567.5 - 3682.5	32.6754	-	0.158	22.00	32M7G7W
		16QAM	3567.5 - 3682.5	32.7113	-	0.082	19.15	32M7D7W
		64QAM	3567.5 - 3682.5	32.7173	-	0.081	19.11	32M7D7W
		256QAM	3567.5 - 3682.5	32.7781	-	0.054	17.31	32M8D7W
	20 + 20 MHz	QPSK	3570.0 - 3680.0	37.7151	-	0.158	22.00	37M7G7W
		16QAM	3570.0 - 3680.0	37.7215	-	0.083	19.20	37M7D7W
		64QAM	3570.0 - 3680.0	37.6518	-	0.082	19.15	37M7D7W
		256QAM	3570.0 - 3680.0	37.7468	-	0.052	17.16	37M7D7W

EUT Overview

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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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.


1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST 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 PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST is a CBRS Alliance (OnGo) Approved Test Lab
- PCTEST is a WinnForum Approved Test Lab
- PCTEST is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for CBRS Alliance Certification Test Plan and WinnForum Conformance and Performance Test Technical Standard.
- PCTEST 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.
- PCTEST 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 ISSED Standards (RSS).
- PCTEST facility is a registered (22831) test laboratory with the site description on file with ISSED.

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Table Device FCC ID:BCGA2589**. The test data contained in this report pertains only to the emissions due to the EUT's LTE Band 48 operation in the CBRs band. Per FCC Part 96, this device is evaluated under Citizens Band End User Devices (CBE).

Test Device Serial No.: Y257GJ4FH2, MK616422XY, CM9FQFPG4G, M0402MYYQQ

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, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), WPT

This device supports BT Beamforming

All measurements were performed with NS01 for all antennas.

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	WLAN	Bluetooth	WCDMA / LTE / FR1 NR	LTE / FR1 NR		UNII
		802.11 b/g/n/ax	BDR, EDR, HDR4/8, LE1/2M	Mid Band	High Band	Ultra High Band	802.11 a/n/ac/ax
3A	Config 1	✗	✓	✗	✗	✗	✓
3A	Config 2	✓	✗	✗	✓	✗	✗
3A	Config 3	✗	✓	✗	✓	✗	✗
3A	Config 4	✗	✓	✗	✓	✗	✓
3A	Config 5	✗	✗	✗	✓	✗	✓
3A	Config 6	✓	✗	✓	✗	✗	✗
3A	Config 7	✗	✓	✓	✗	✗	✗
3A	Config 8	✗	✓	✓	✗	✗	✓
3A	Config 9	✗	✗	✓	✗	✗	✓
1A	Config 10	✓	✗	✗	✓	✗	✗
1A	Config 11	✗	✓	✗	✓	✗	✗
1A	Config 12	✓	✗	✓	✗	✗	✗
1A	Config 13	✗	✓	✓	✗	✗	✗
1B	Config 14	✗	✗	✗	✗	✓	✓
2B	Config 15	✗	✗	✗	✗	✓	✓


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

Wi-Fi 2.4GHz and Bluetooth 2.4 GHz can transmit simultaneously on separate antennas. 2.4 GHz WLAN Antenna 3a can only transmit simultaneously with 2.4GHz Bluetooth Antenna 1a. In this scenario Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Regulatory max cap) power.

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2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.


Band	Antenna Gain (dBi)			
	Antenna 3B	Antenna 1B	Antenna 4	Antenna 2B
LTE Band 48	2.2	-3.8	3.6	-4.5

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02DV7VKMD6T
	w/AC/DC Adapter	Model:	A2166	S/N:	N/A
2	Apple USB-C Cable	Model:	Chimp	S/N:	420A57
3	Apple USB-C Cable	Model:	Spartan	S/N:	000MKTR02U
4	USB-C Cable	Model:	A146	S/N:	N/A
	w/ AC Adapter	Model:	A2305	S/N:	N/A
5	Apple Pencil	Model:	N/A	S/N:	GQXGSXBJKM9
6	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.

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.

2.6 Software and Firmware

The test was conducted with firmware version 19E11500Q 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 Measurement Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI C63.26-2015, 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:

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



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 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	1.65
Radiated Disturbance (<30MHz)	4.06
Radiated Disturbance (30MHz-1GHz)	4.30
Radiated Disturbance (1-18GHz)	4.78
Radiated Disturbance (>18GHz)	4.79

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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-44GHz PXA Signal Analyzer	3/31/2021	Annual	3/31/2022	MY49430244
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	8/13/2021	Annual	8/13/2022	T058701-01
ESPEC	SU-241	Tabletop Temperature Chamber	10/26/2021	Annual	10/26/2022	92009574
ETS-Lindgren	3142E	BiConiLog Antenna (30MHz - 6GHz)	10/21/2021	Annual	10/21/2022	208204
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	10/25/2021	Annual	10/25/2022	227597
Keysight Technology	N9040B	UXA Signal Analyzer	2/8/2022	Annual	2/8/2023	MY57212015
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	1/6/2022	Annual	1/6/2023	102327
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	1/6/2022	Annual	1/6/2023	101639
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	3/16/2021	Annual	3/16/2022	101619
Rohde & Schwarz	ESW26	EMI Test Receiver	6/11/2021	Annual	6/11/2022	101299
Rohde & Schwarz	ESW44	EMI Test Receiver	12/2/2021	Annual	12/2/2022	101570
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/11/2021	Annual	10/11/2022	161616
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/15/2021	Annual	3/15/2022	161617
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	4/29/2021	Annual	4/29/2022	100051
Rohde & Schwarz	HFH2-Z2	Loop Antenna	4/5/2021	Annual	4/5/2022	100519
Rohde & Schwarz	FSVA3030	Signal Analyzer (up to 30 GHz)	4/19/2021	Annual	4/19/2022	100823
Rohde & Schwarz	FSVA3044	Signal Analyzer (up to 44 GHz)	4/26/2021	Annual	4/26/2022	101098

Table 5-1. Test Equipment

Notes:

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

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6.0 SAMPLE CALCULATIONS

Emission Designator

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: BCGA2589
FCC Classification: Citizens Band End User Devices (CBE)
Mode(s): LTE/ULCA


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	2.1051, 96.41(e)(ii)	-13 dBm/MHz at frequencies within 0-B MHz of channel edge (where B is the bandwidth of the assigned channel) -25 dBm/MHz at frequencies greater than B MHz above and below channel edge -40 dBm/MHz at frequencies below 3530 MHz and above 3720 MHz	PASS	Sections 7.3, 7.4
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Peak-Average Ratio	96.41(g)	< 13 dB	PASS	Section 7.5
	Frequency Stability	2.1055	Fundamental emissions stay within authorized frequency block	PASS	Section 7.8
	End User Device Additional Requirements (CBSD Protocol)	96.47	End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.	PASS	Section 7.9
	Equivalent Isotropic Radiated Power (EIRP)	96.41(b)	23 dBm/10MHz	PASS	Section 7.6
RADIATED	Radiated Spurious Emissions	2.1053, 96.41(e)	-40 dBm/MHz	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 were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized was PCTEST EMC Software Tool 1.1.

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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 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.

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

Test Setup

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

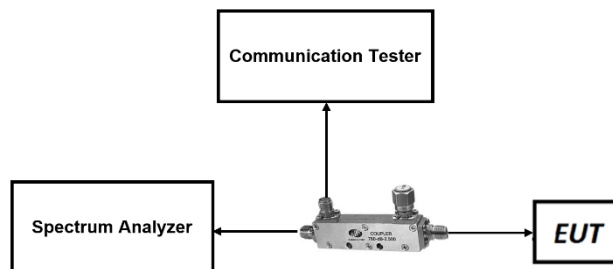



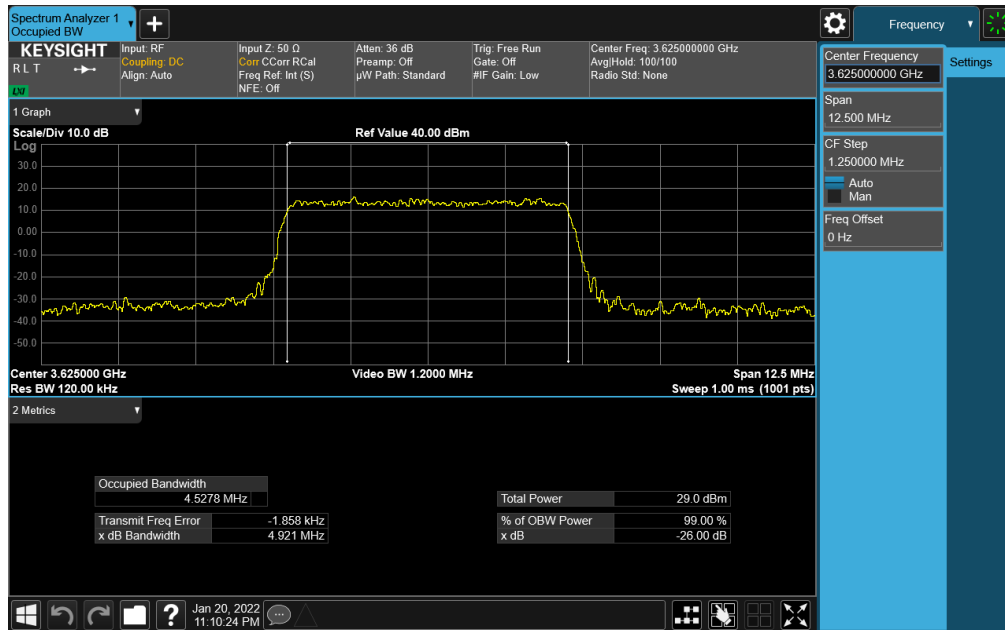
Figure 7-1. Test Instrument & Measurement Setup

Test Notes

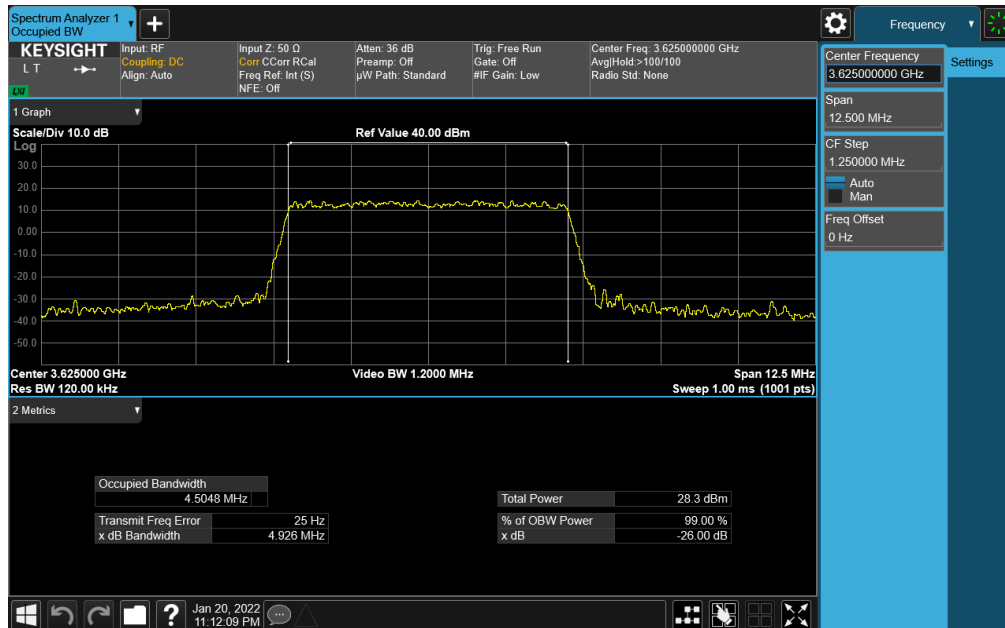
None.

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LTE Band 48

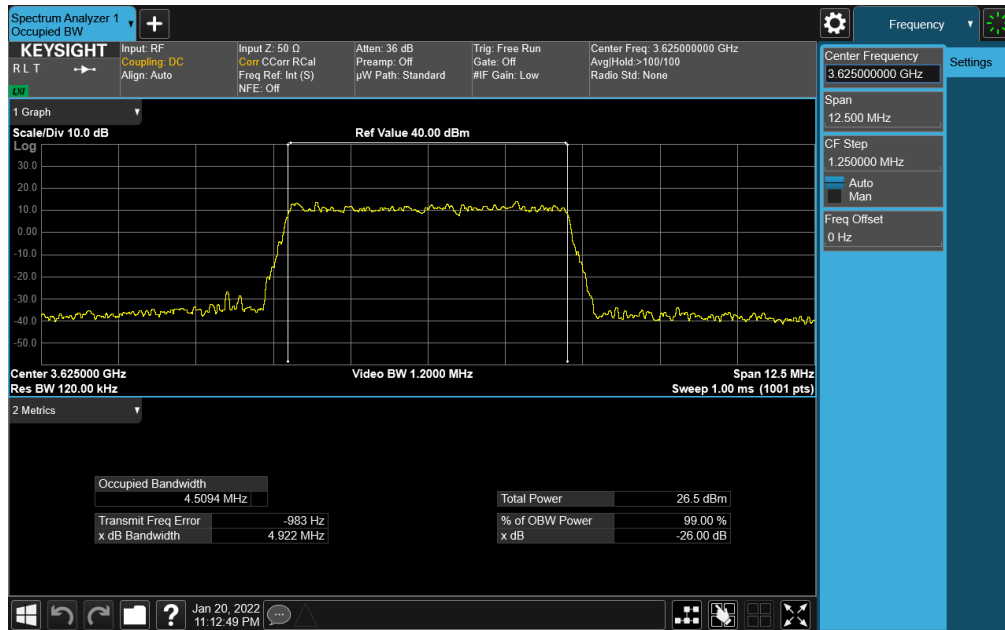


Plot 7-1. Occupied Bandwidth Plot (LTE Band 48 - 5MHz QPSK - Full RB Configuration)

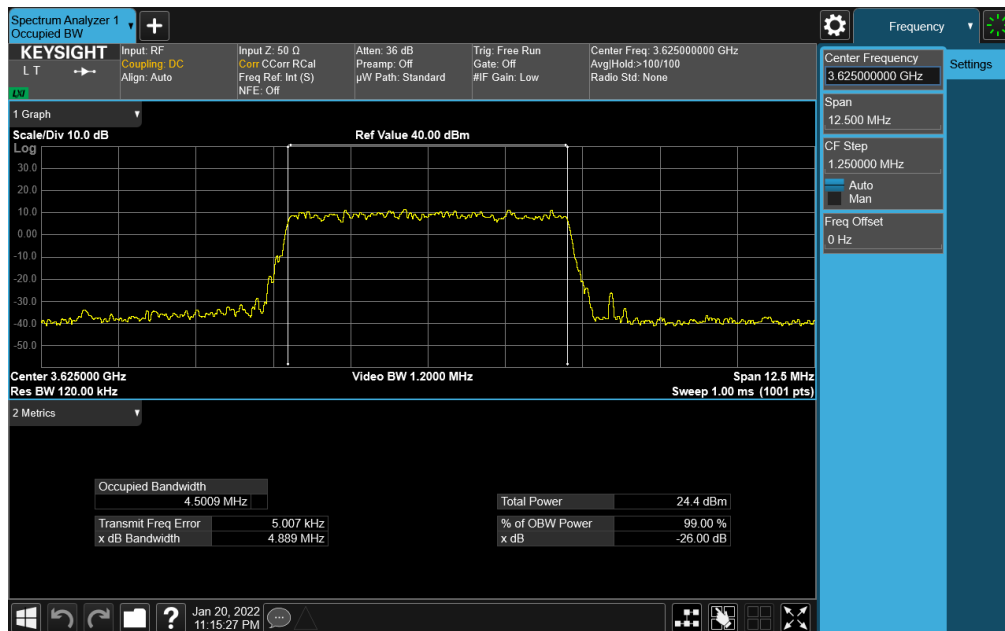


Plot 7-2. Occupied Bandwidth Plot (LTE Band 48 - 5MHz 16-QAM - Full RB Configuration)


FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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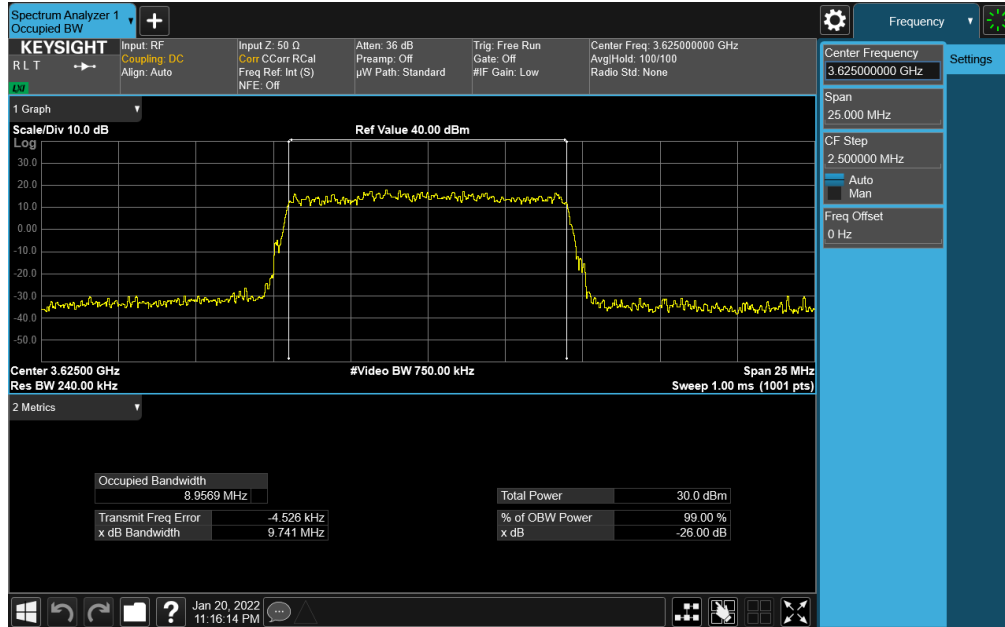


Plot 7-3. Occupied Bandwidth Plot (LTE Band 48 - 5MHz 64-QAM - Full RB Configuration)

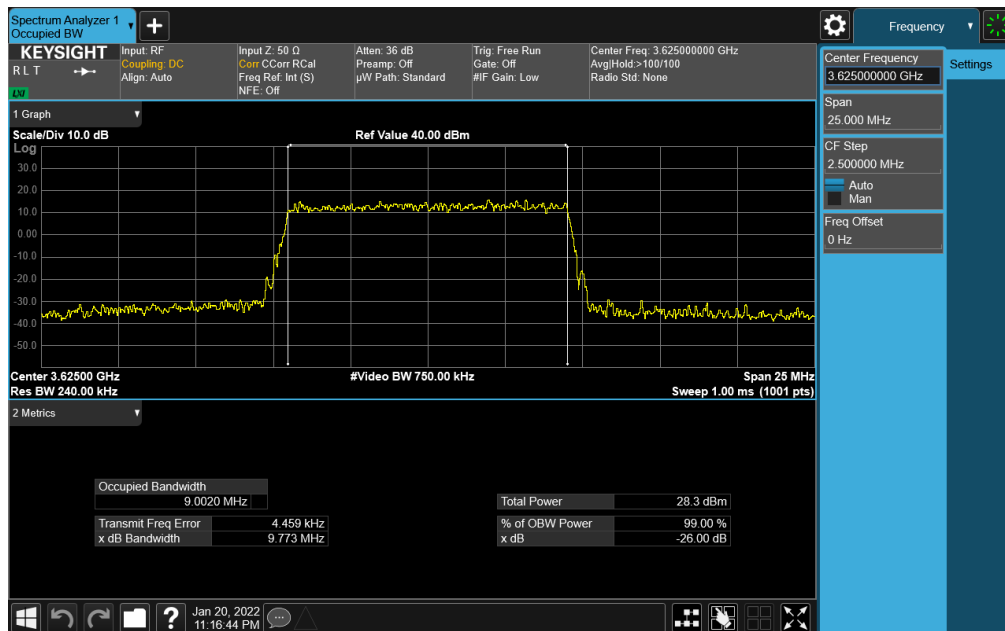


Plot 7-4. Occupied Bandwidth Plot (LTE Band 48 - 5MHz 256-QAM - Full RB Configuration)


FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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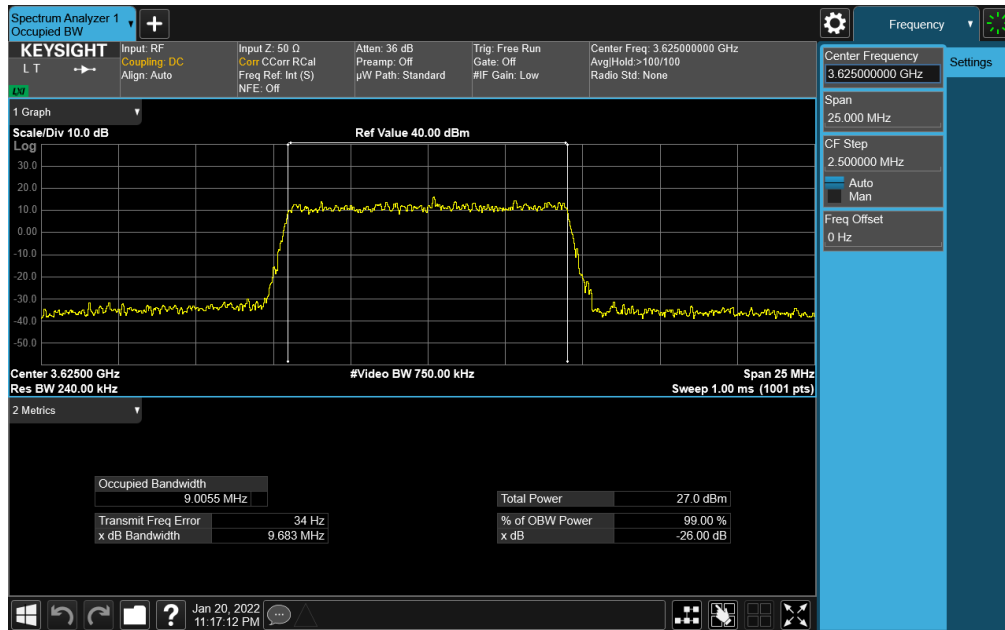


Plot 7-5. Occupied Bandwidth Plot (LTE Band 48 - 10MHz QPSK - Full RB Configuration)

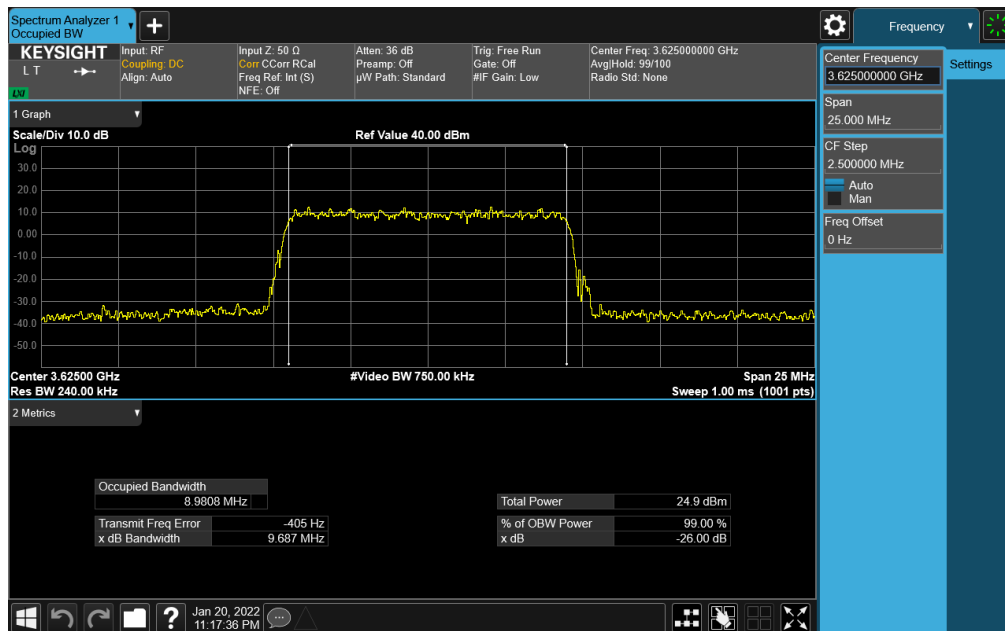


Plot 7-6. Occupied Bandwidth Plot (LTE Band 48 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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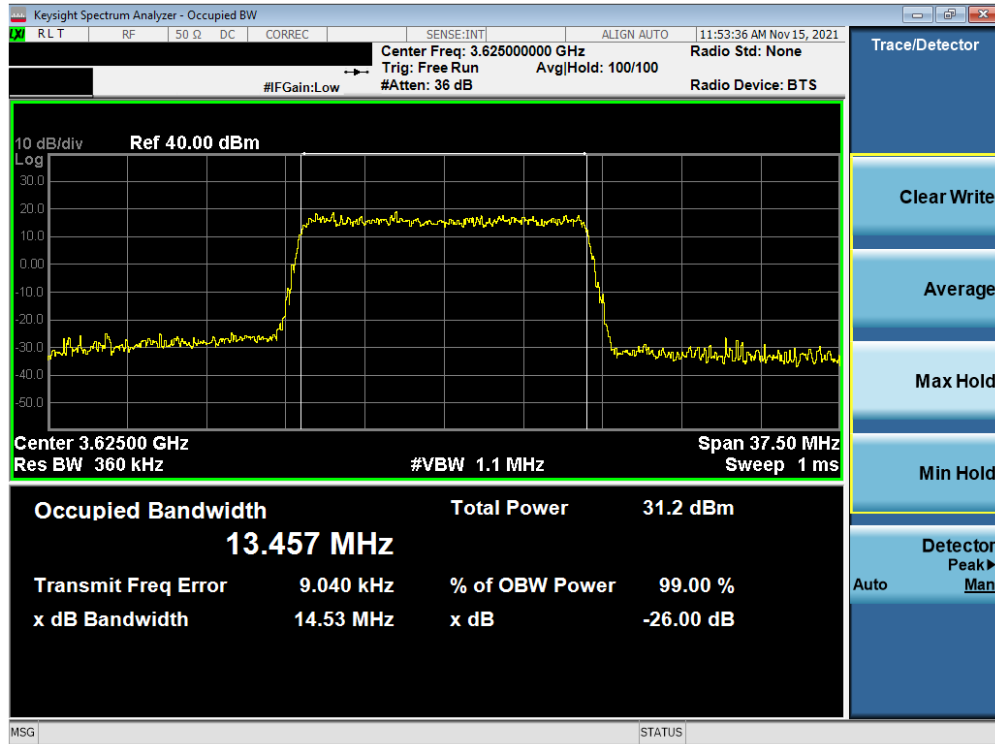


Plot 7-7. Occupied Bandwidth Plot (LTE Band 48 - 10MHz 64-QAM - Full RB Configuration)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 48 - 10MHz 256-QAM - Full RB Configuration)



FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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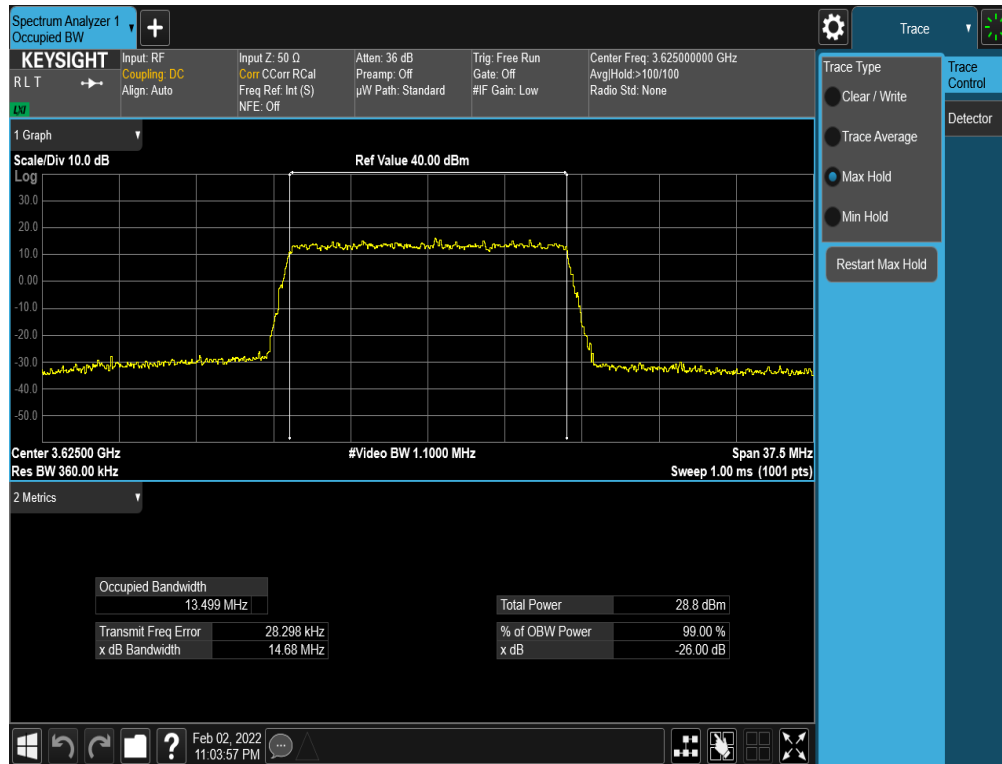


Plot 7-9. Occupied Bandwidth Plot (LTE Band 48 - 15MHz QPSK - Full RB Configuration)

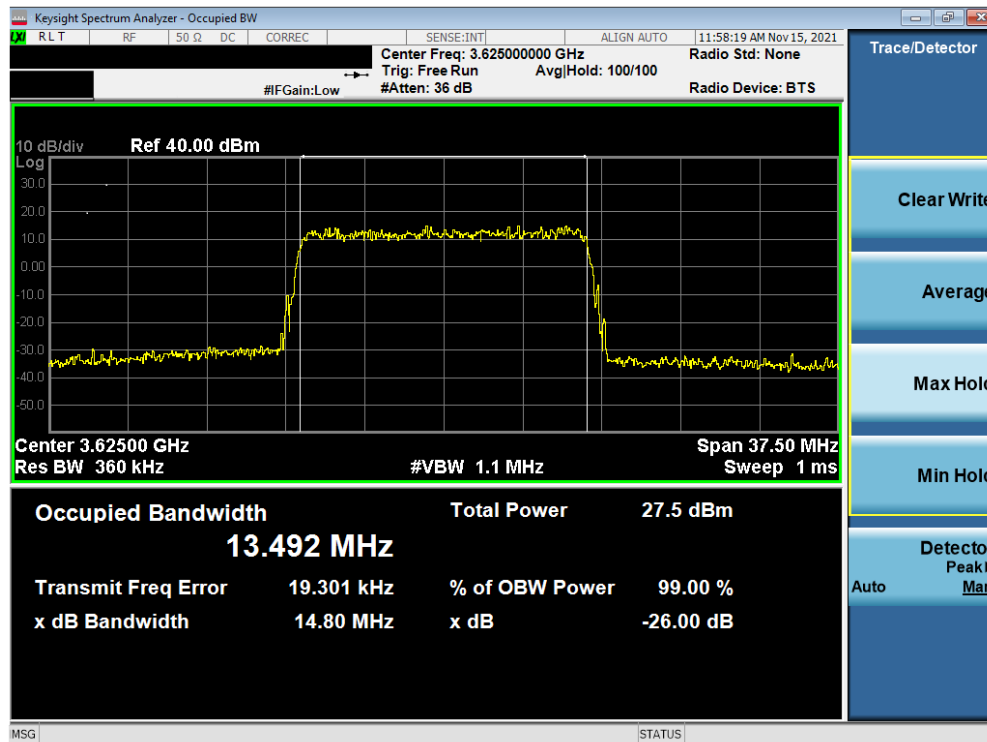


Plot 7-10. Occupied Bandwidth Plot (LTE Band 48 - 15MHz 16-QAM - Full RB Configuration)


FCC ID: BCGA2589	 Proud to be part of 	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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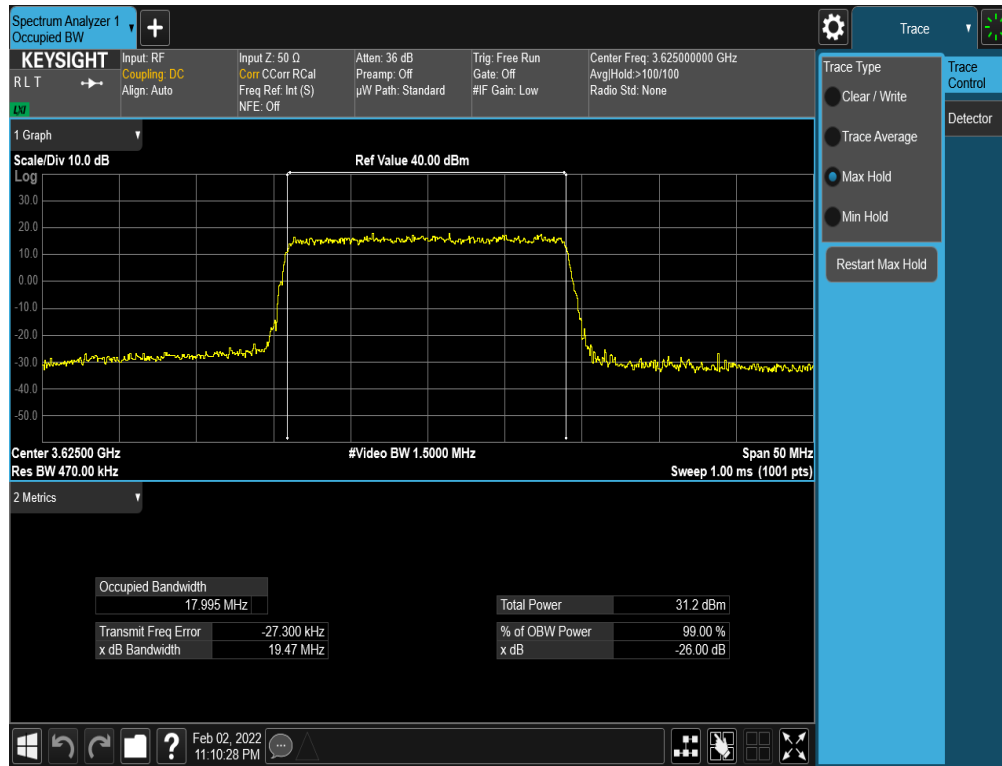


Plot 7-11. Occupied Bandwidth Plot (LTE Band 48 - 15MHz 64-QAM - Full RB Configuration)

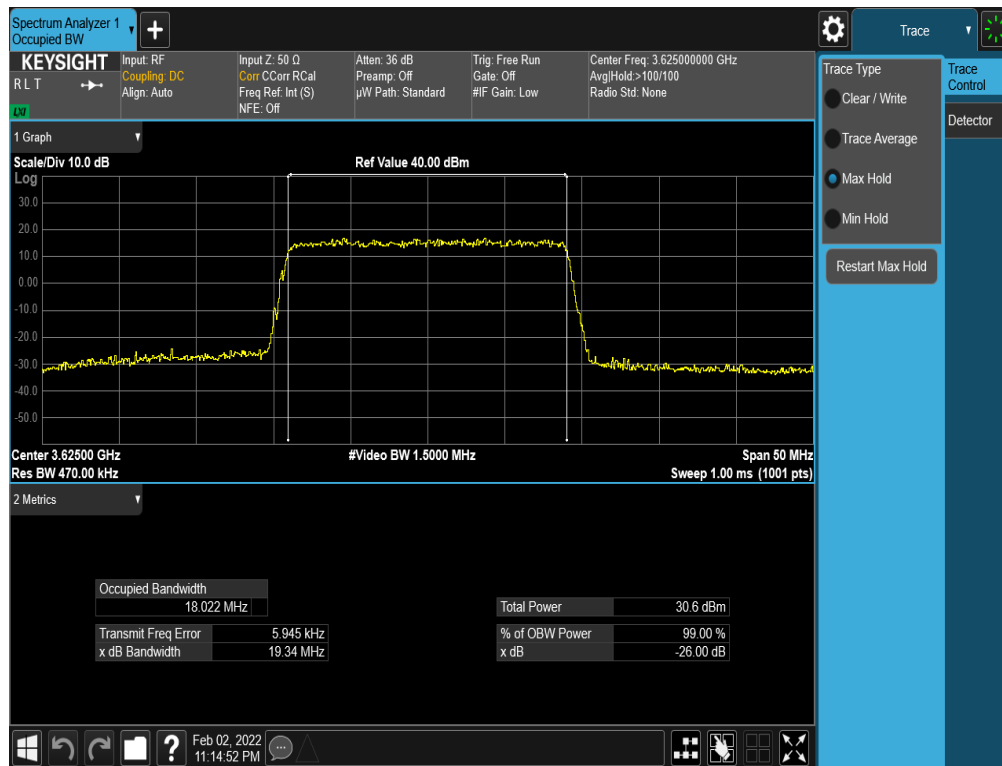


Plot 7-12. Occupied Bandwidth Plot (LTE Band 48 - 15MHz 256-QAM - Full RB Configuration)


FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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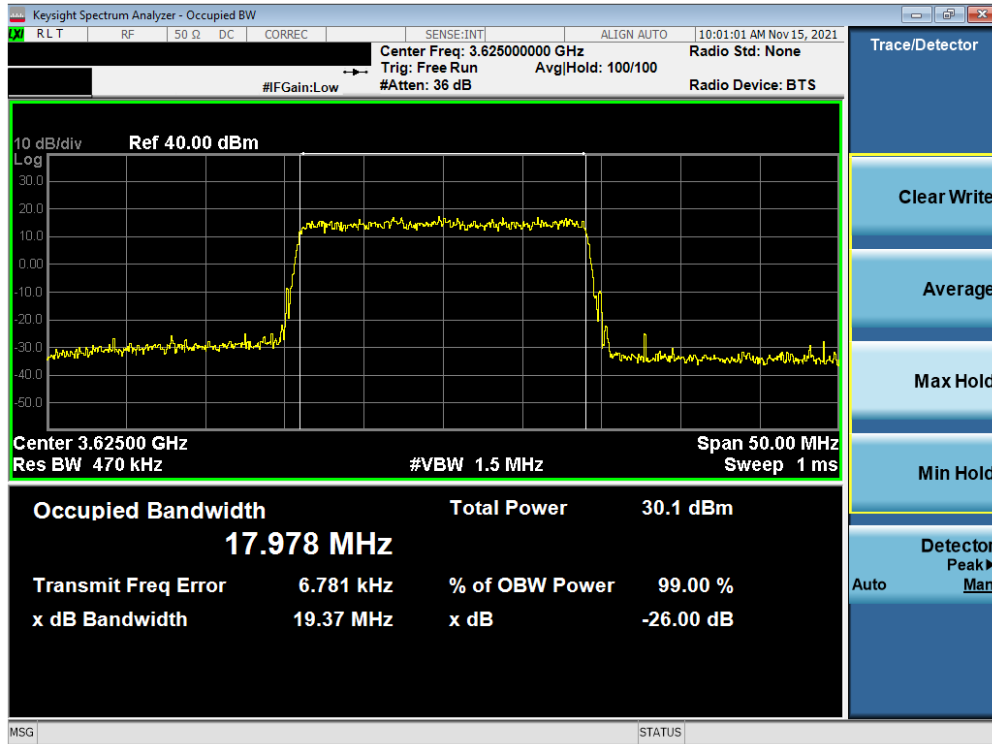


Plot 7-13. Occupied Bandwidth Plot (LTE Band 48 - 20MHz QPSK - Full RB Configuration)

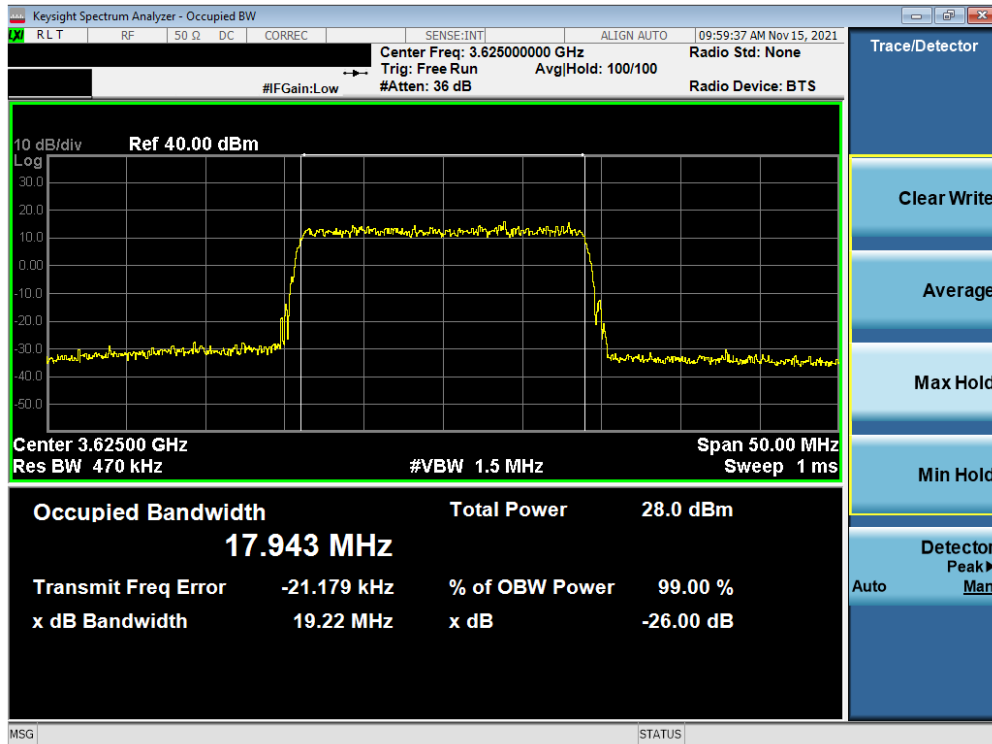


Plot 7-14. Occupied Bandwidth Plot (LTE Band 48 - 20MHz 16-QAM - Full RB Configuration)


FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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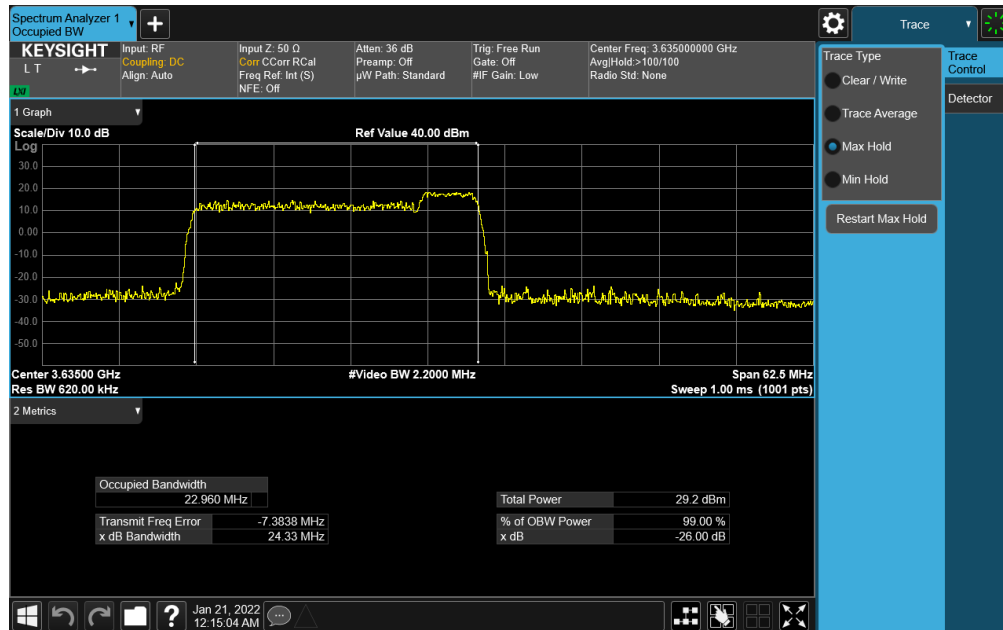
Plot 7-15. Occupied Bandwidth Plot (LTE Band 48 - 20MHz 64-QAM - Full RB Configuration)



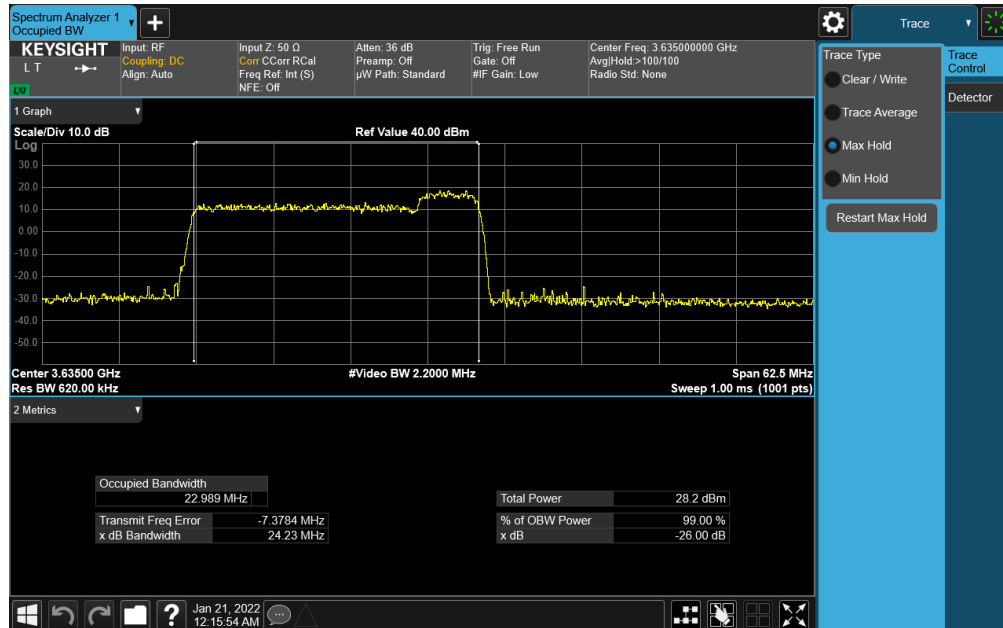
Plot 7-16. Occupied Bandwidth Plot (LTE Band 48 - 20MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48

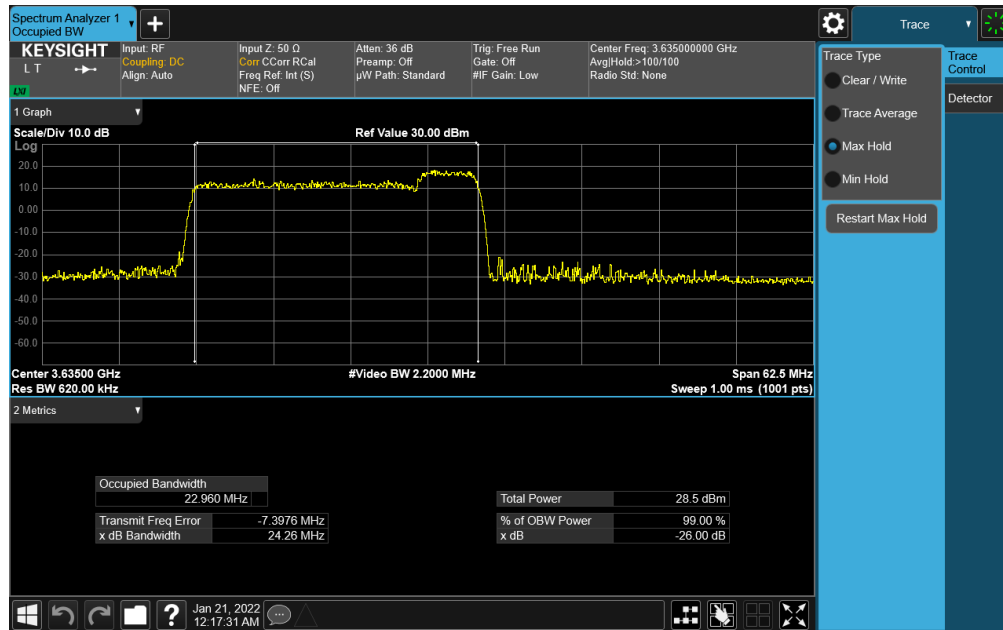


Plot 7-17. Occupied Bandwidth Plot (ULCA Band 48 - 20+5MHz QPSK - Full RB Configuration)

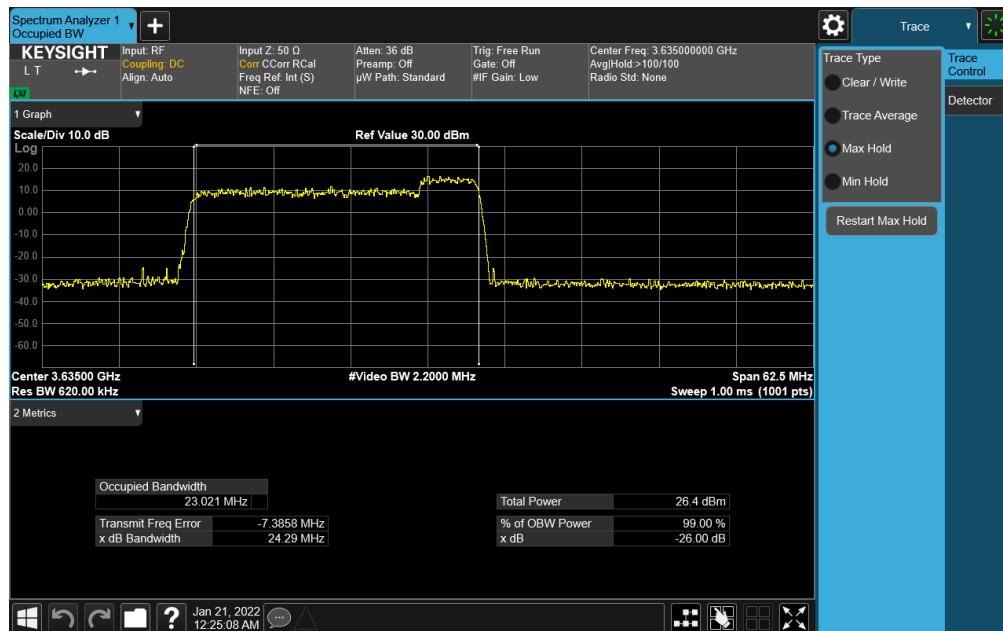


Plot 7-18. Occupied Bandwidth Plot (ULCA Band 48 - 20+5MHz 16-QAM - Full RB Configuration)


FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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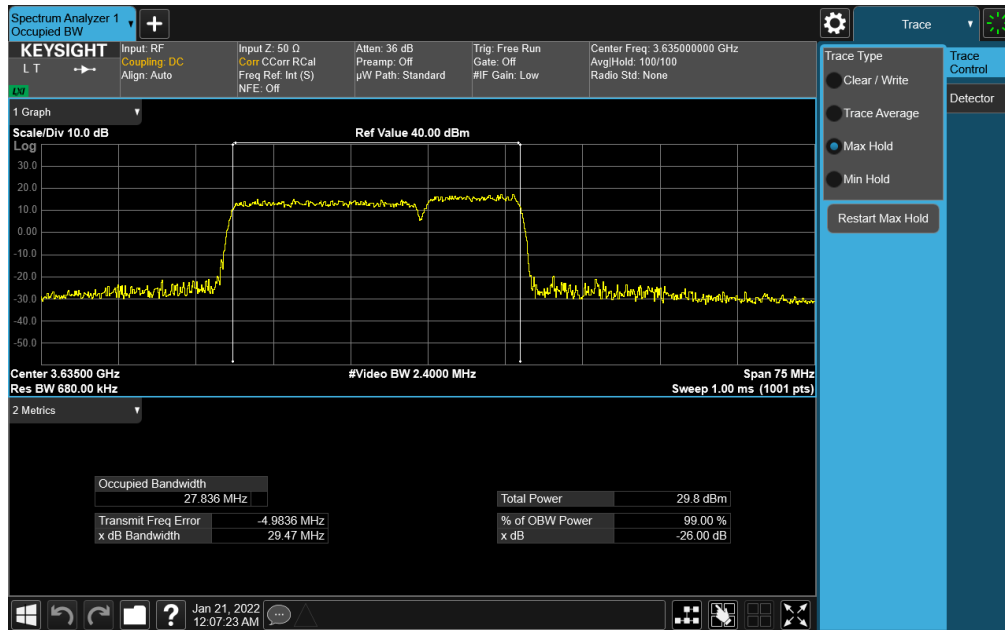


Plot 7-19. Occupied Bandwidth Plot (ULCA Band 48 - 20+5MHz 64-QAM - Full RB Configuration)

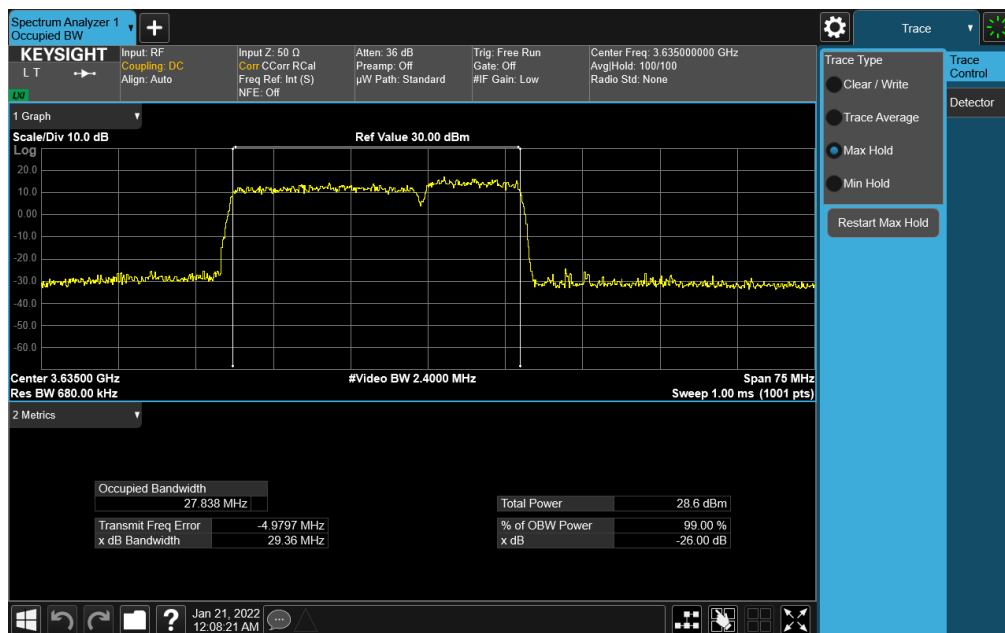


Plot 7-20. Occupied Bandwidth Plot (ULCA Band 48 - 20+5MHz 256-QAM - Full RB Configuration)


FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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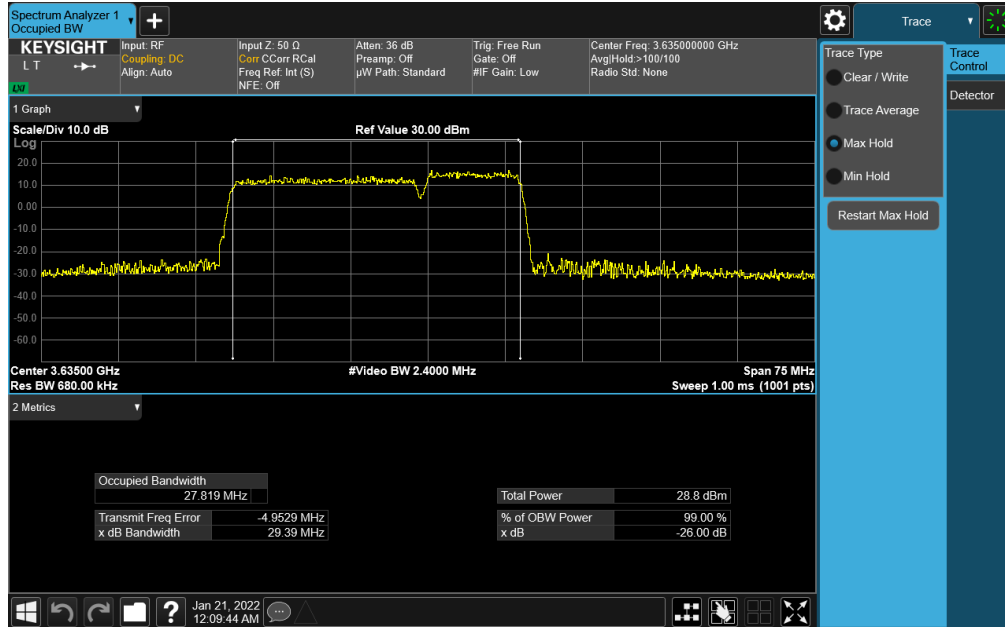


Plot 7-21. Occupied Bandwidth Plot (ULCA Band 48 - 20+10MHz QPSK - Full RB Configuration)

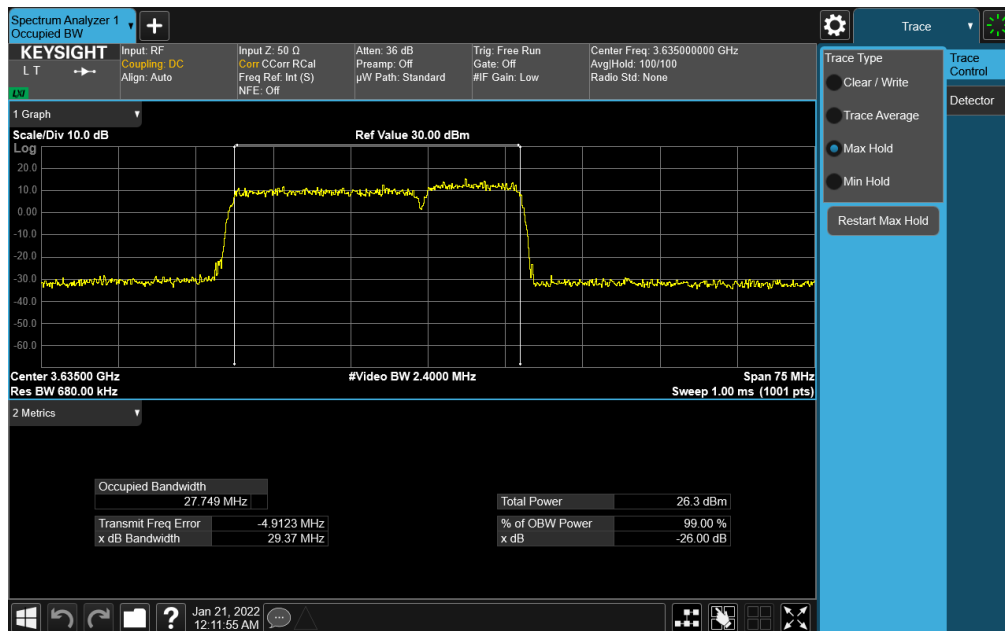


Plot 7-22. Occupied Bandwidth Plot (ULCA Band 48 - 20+10MHz 16-QAM - Full RB Configuration)


FCC ID: BCGA2589	PCTEST Proud to be part of 	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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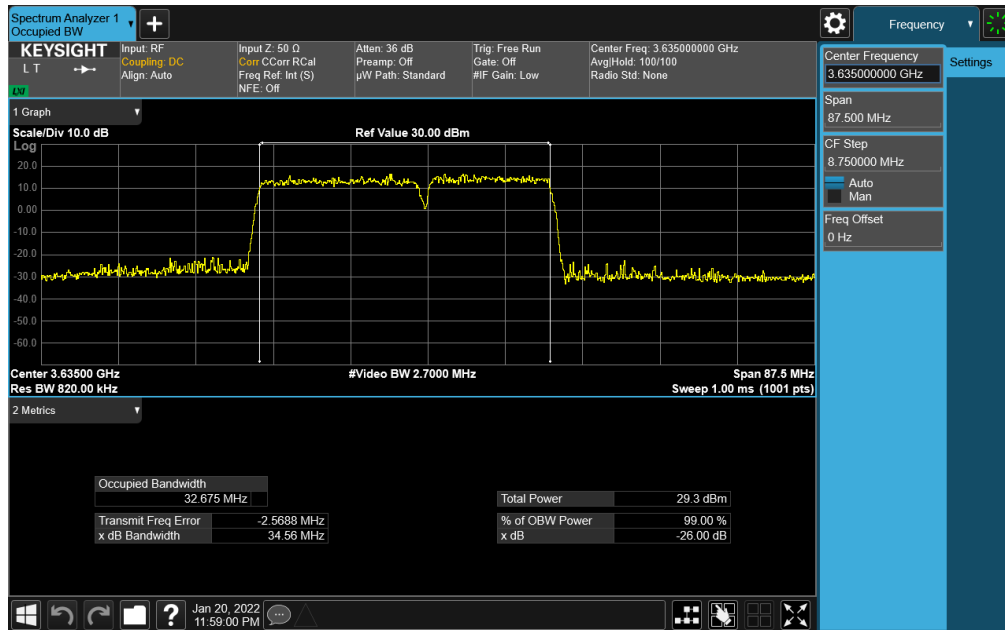


Plot 7-23. Occupied Bandwidth Plot (ULCA Band 48 - 20+10MHz 64-QAM - Full RB Configuration)

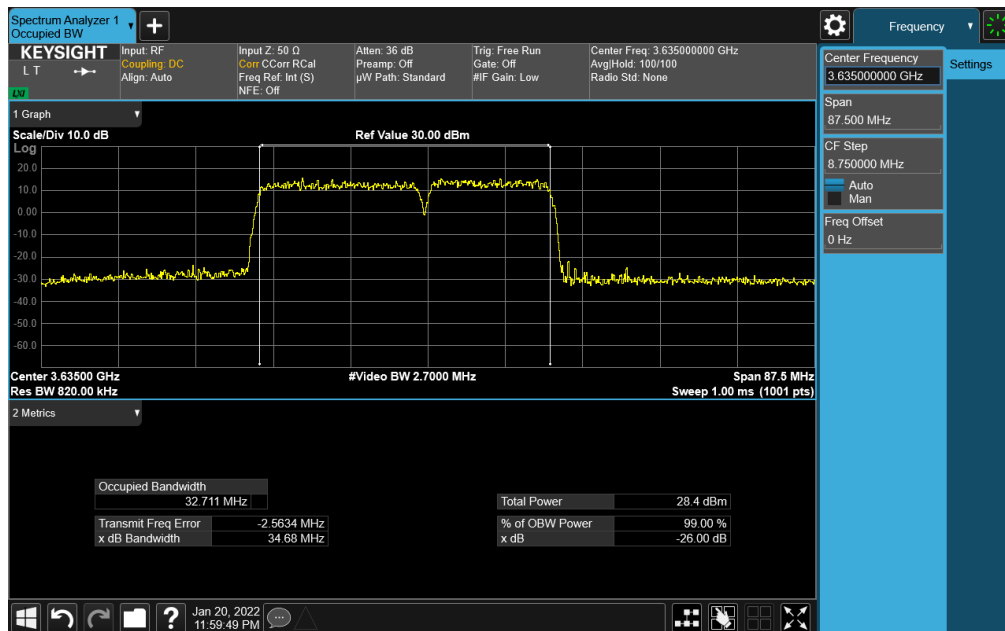


Plot 7-24. Occupied Bandwidth Plot (ULCA Band 48 - 20+10MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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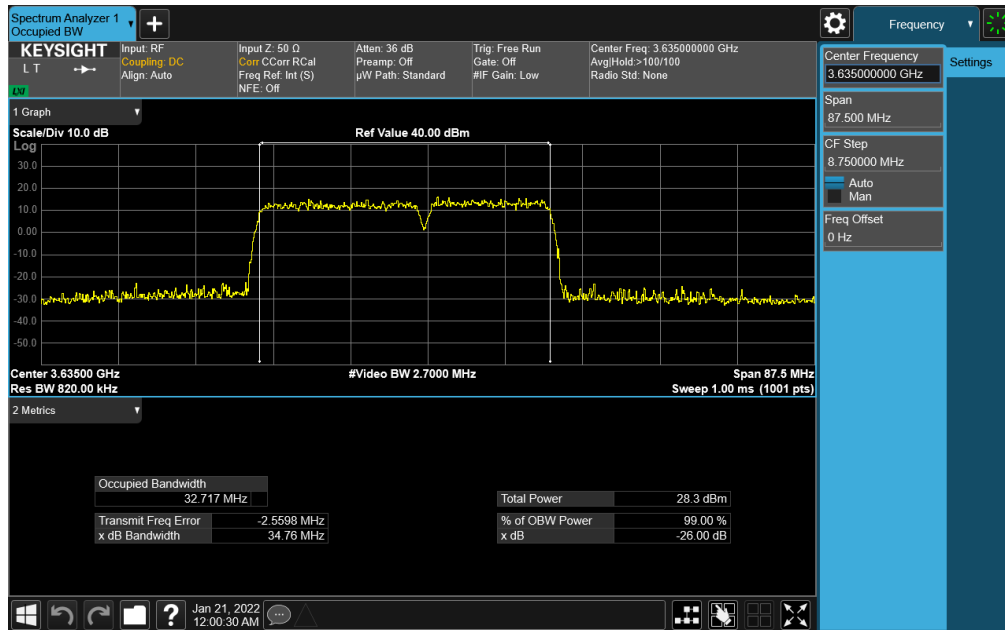


Plot 7-25. Occupied Bandwidth Plot (ULCA Band 48 - 20+15MHz QPSK - Full RB Configuration)

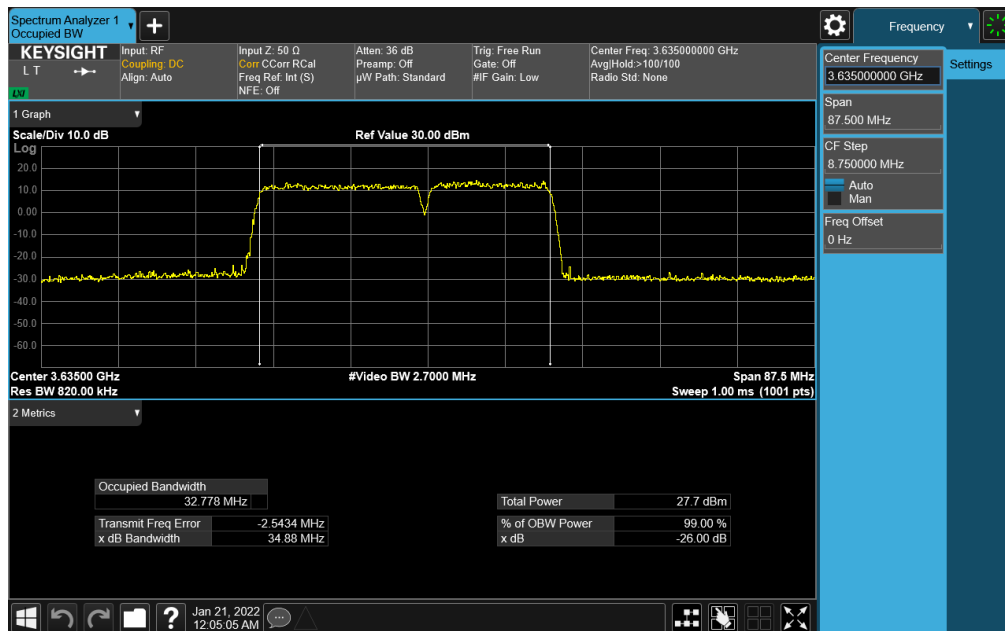


Plot 7-26. Occupied Bandwidth Plot (ULCA Band 48 - 20+15MHz 16-QAM - Full RB Configuration)



FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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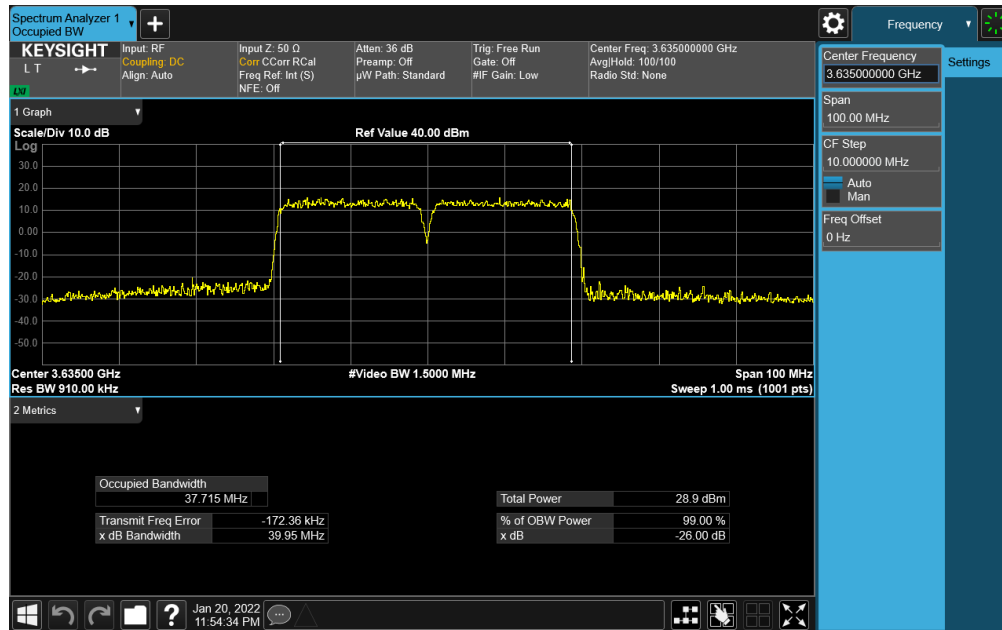


Plot 7-27. Occupied Bandwidth Plot (ULCA Band 48 - 20+15MHz 64-QAM - Full RB Configuration)

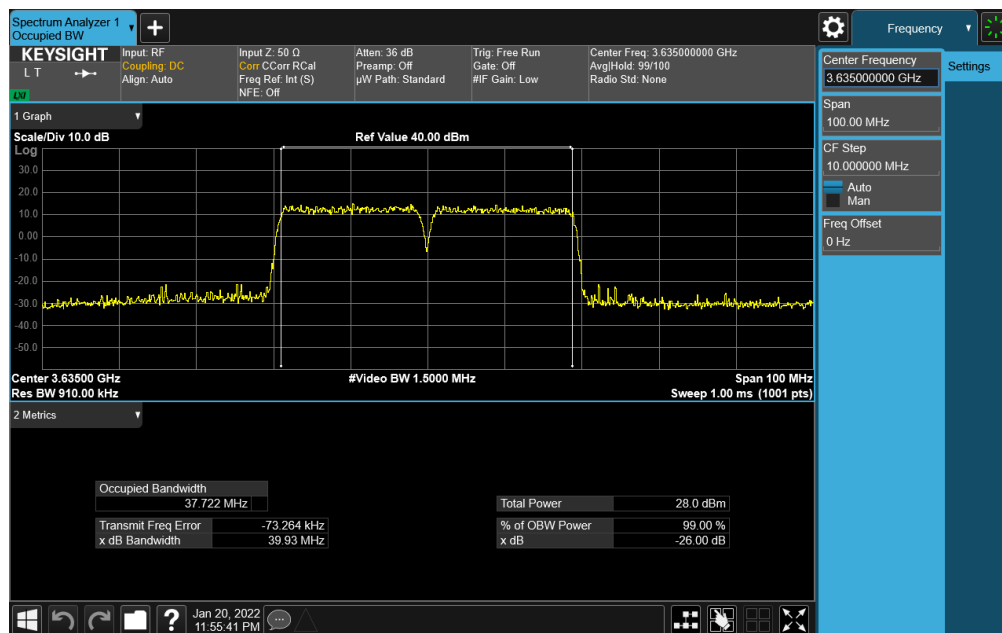


Plot 7-28. Occupied Bandwidth Plot (ULCA Band 48 - 20+15MHz 256-QAM - Full RB Configuration)



FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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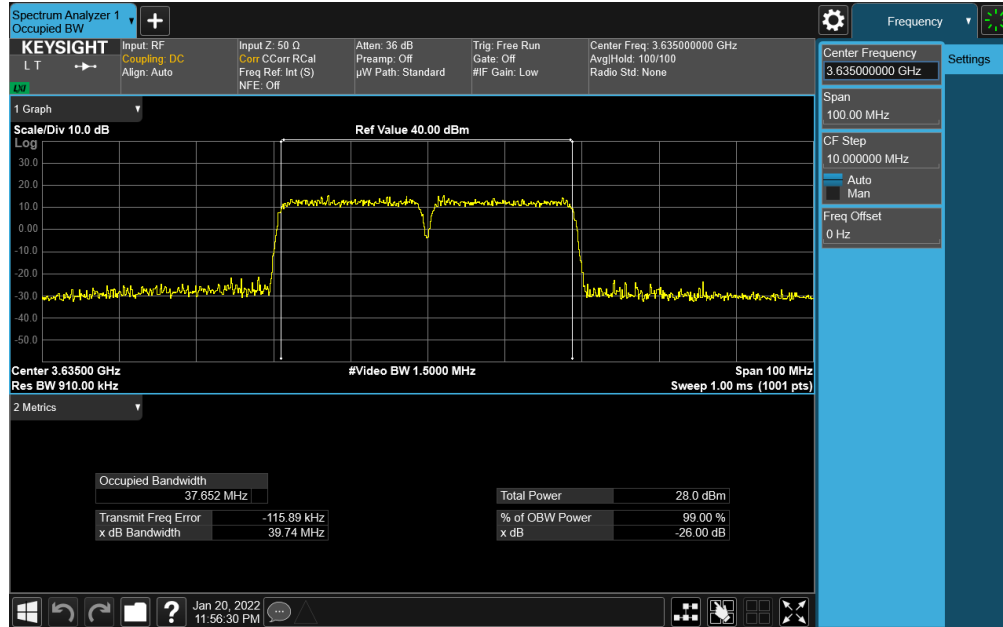


Plot 7-29. Occupied Bandwidth Plot (ULCA Band 48 - 20+20MHz QPSK - Full RB Configuration)

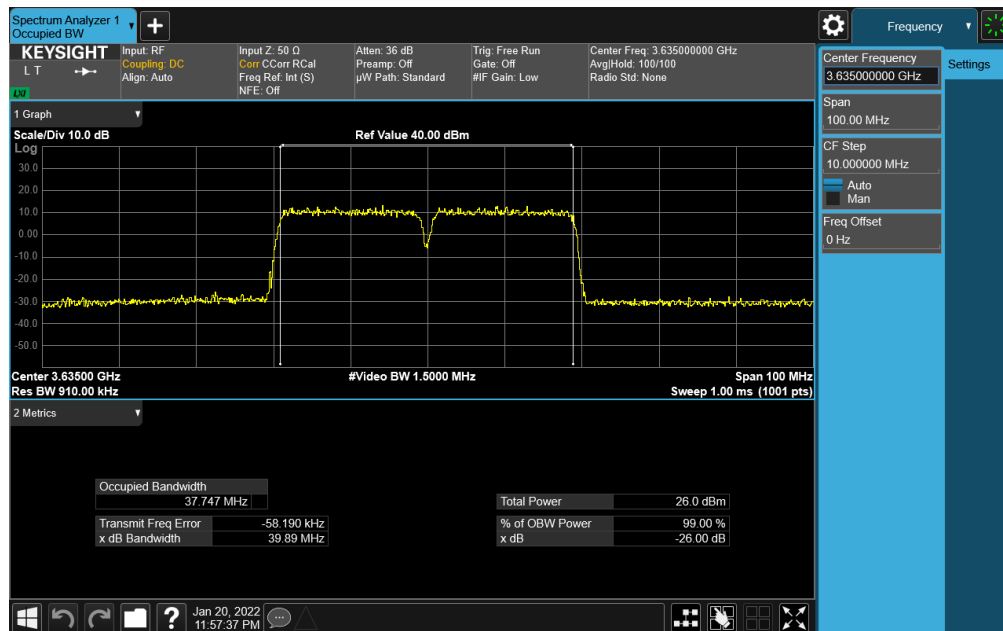


Plot 7-30. Occupied Bandwidth Plot (ULCA Band 48 - 20+20MHz 16-QAM - Full RB Configuration)



FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-31. Occupied Bandwidth Plot (ULCA Band 48 - 20+20MHz 64-QAM - Full RB Configuration)



Plot 7-32. Occupied Bandwidth Plot (ULCA Band 48 - 20+20MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2589	 PCTEST Proud to be part of 	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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7.3 Spurious and Harmonic Emissions at Antenna Terminal §2.1051 §96.41(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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/Mhz.

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 at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = Max Hold
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

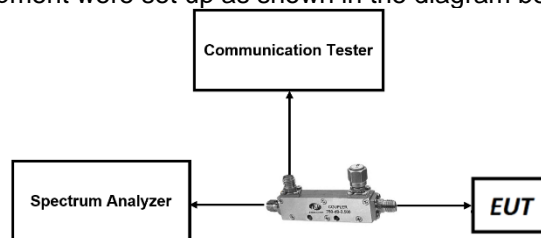




Figure 7-2. Test Instrument & Measurement Setup

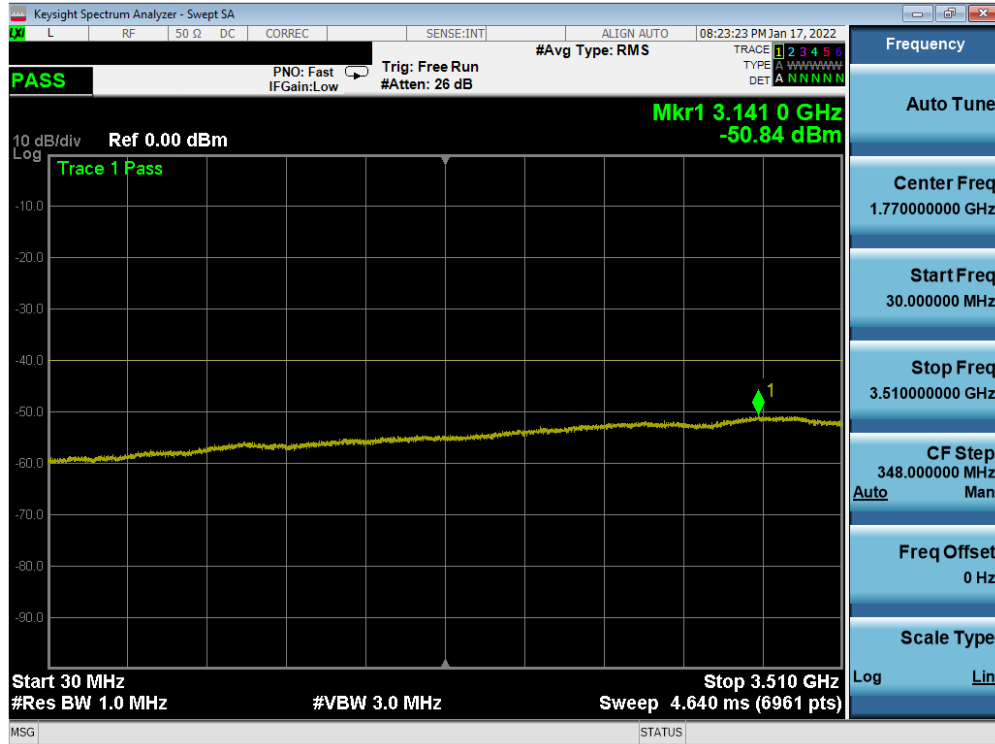
FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Test Notes

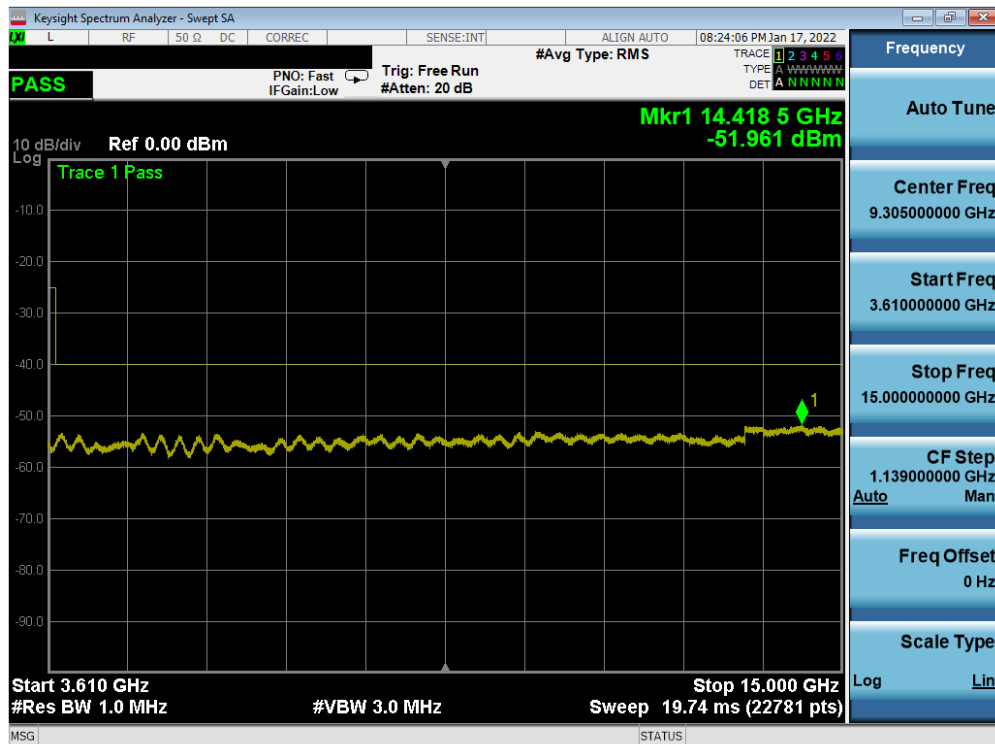
1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the 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. Uplink carrier aggregation conducted spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) powers were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
3. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case

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LTE Band 48

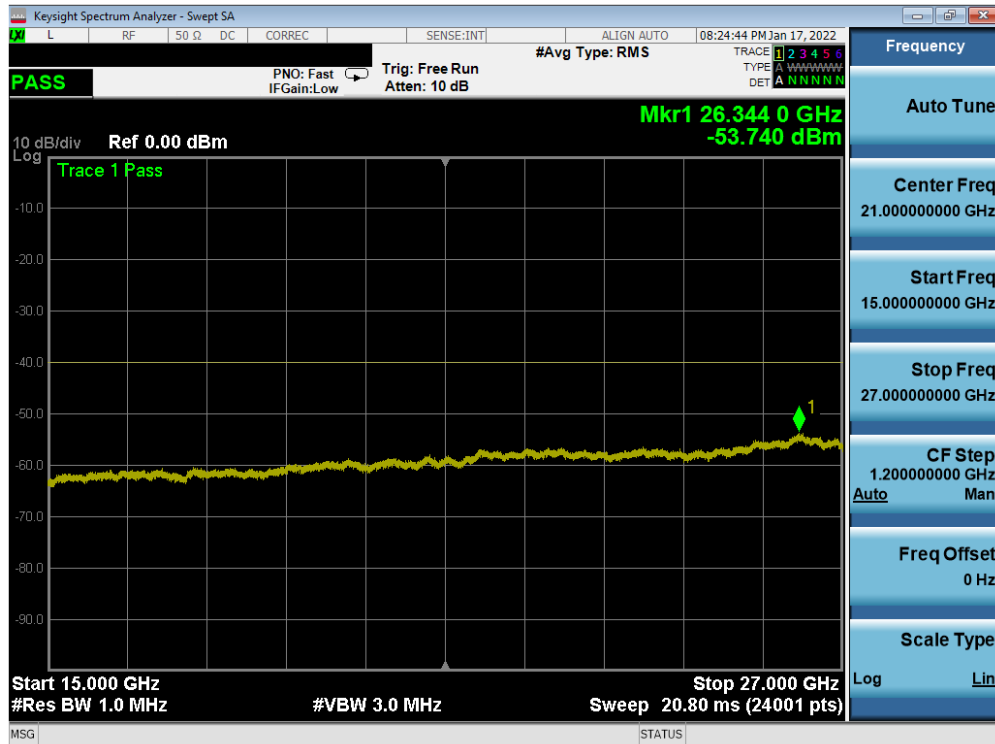


Plot 7-33. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

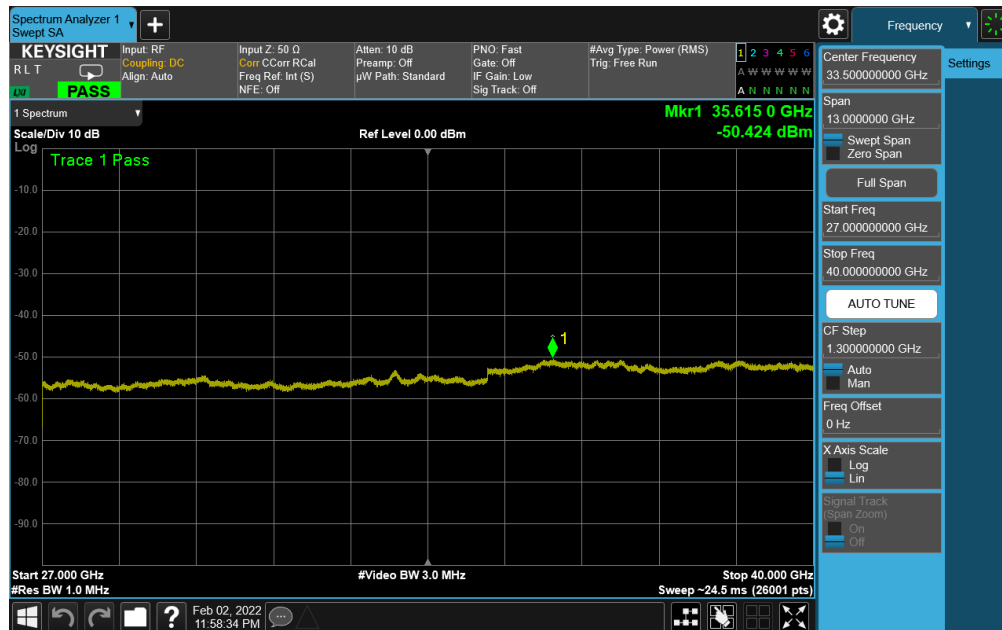


Plot 7-34. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-35. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

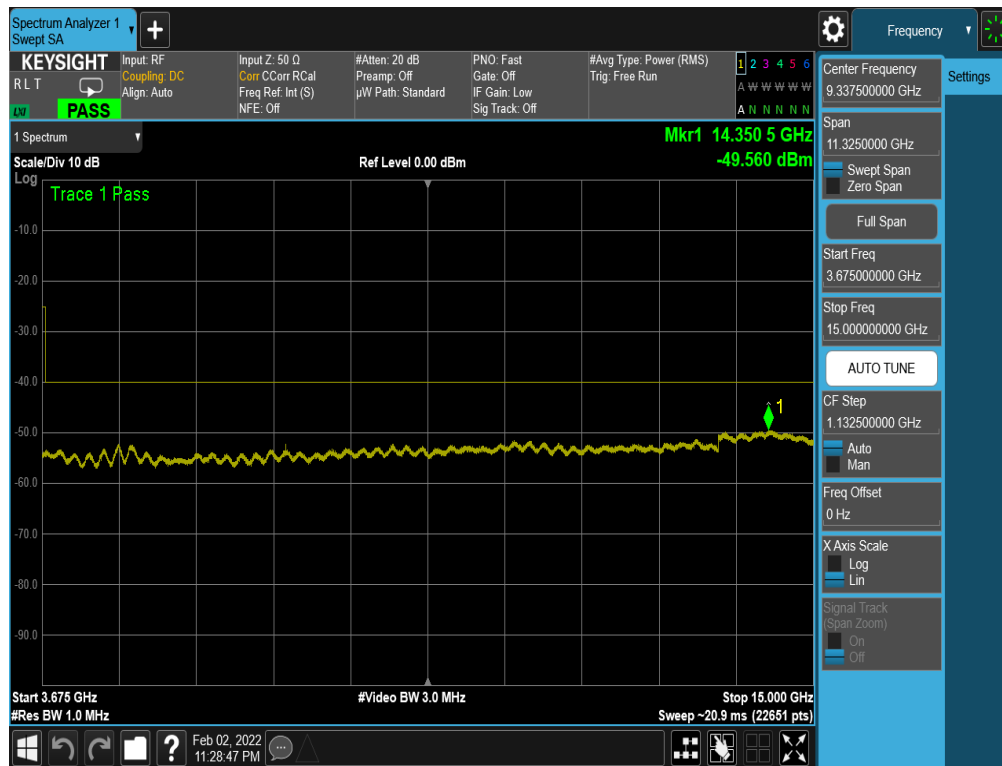


Plot 7-36. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel)


FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-37. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

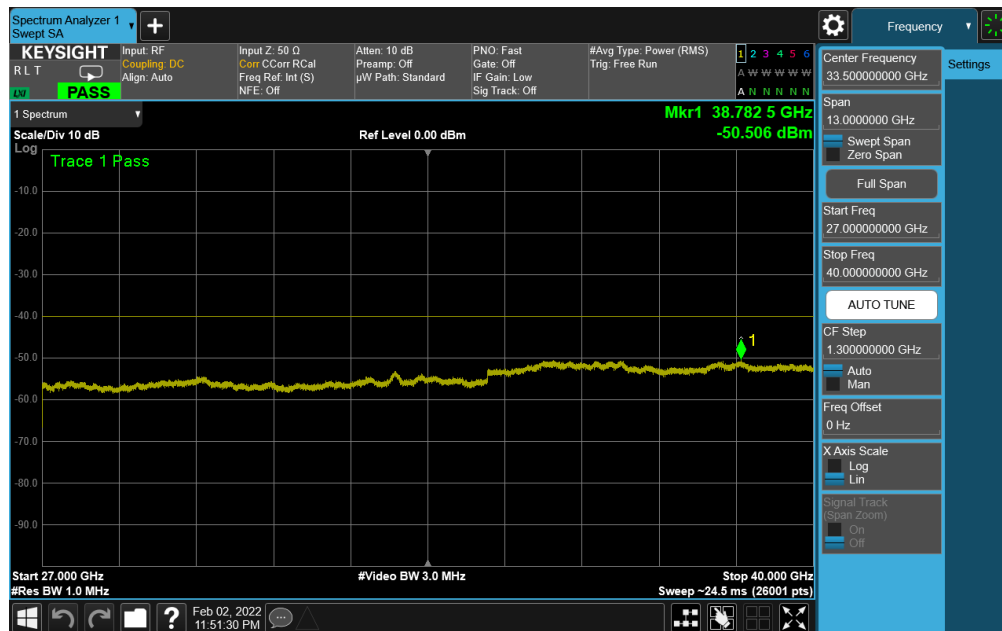


Plot 7-38. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-39. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

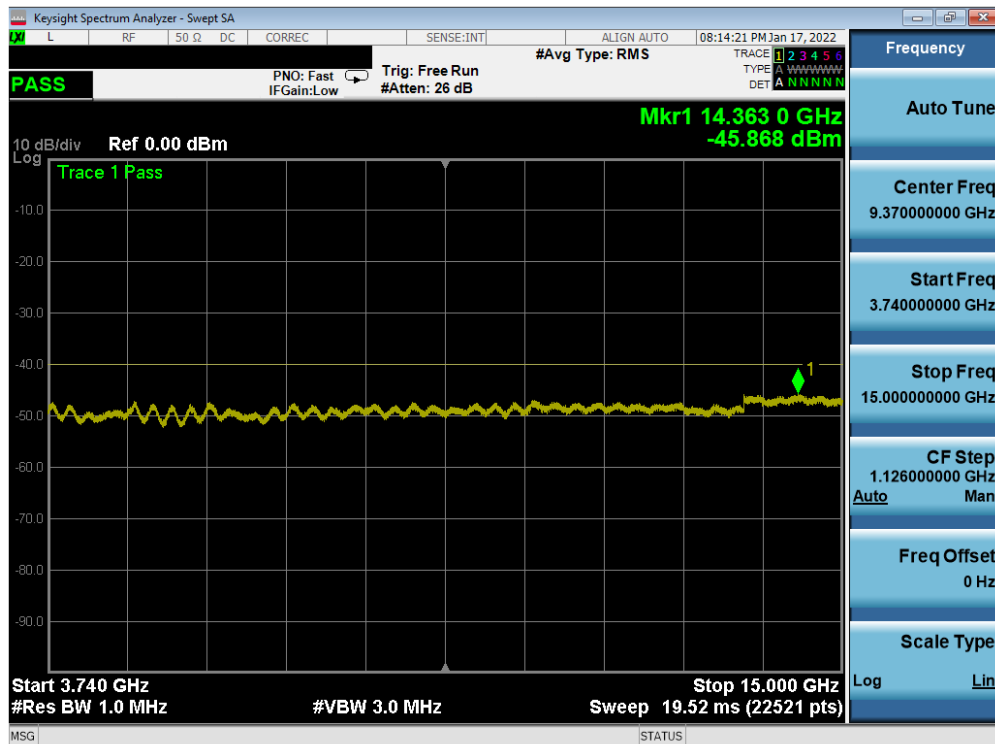


Plot 7-40. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)


FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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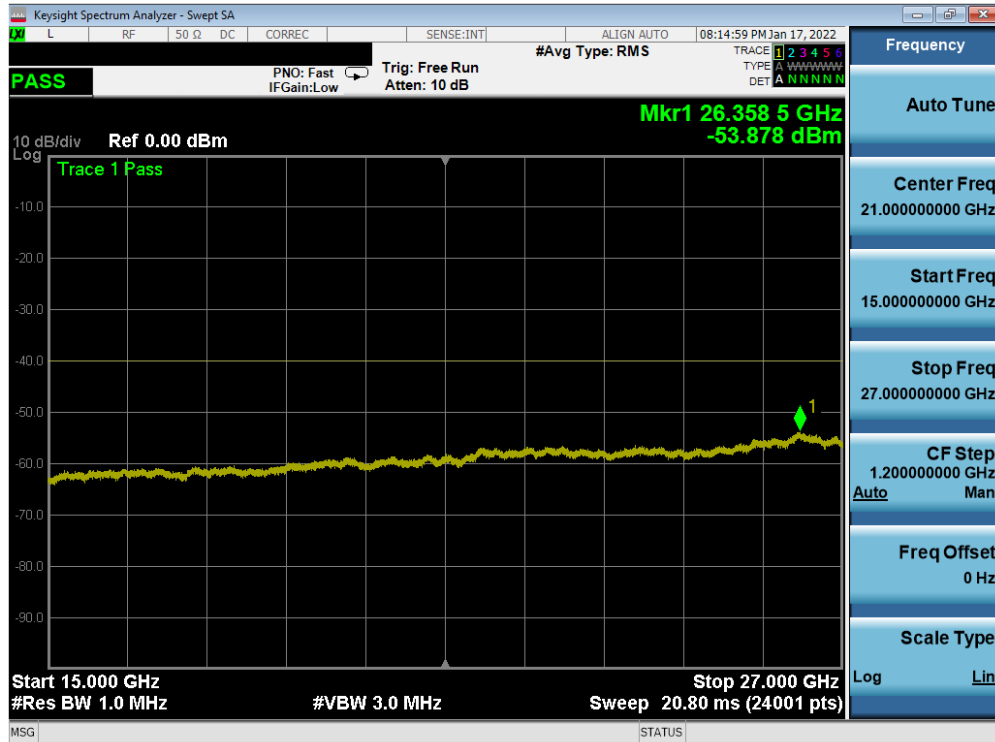


Plot 7-41. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

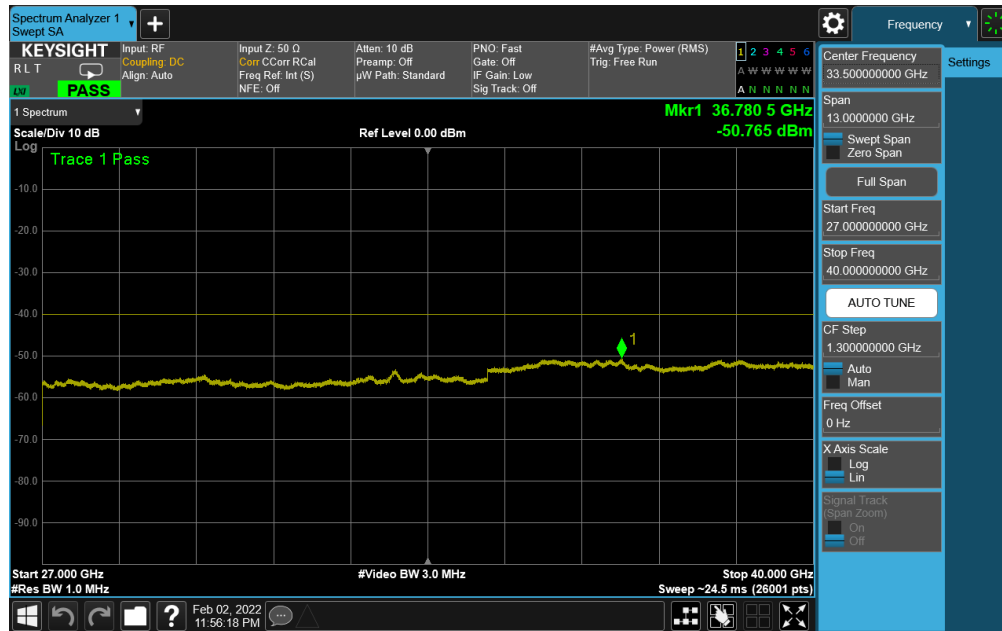


Plot 7-42. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)


FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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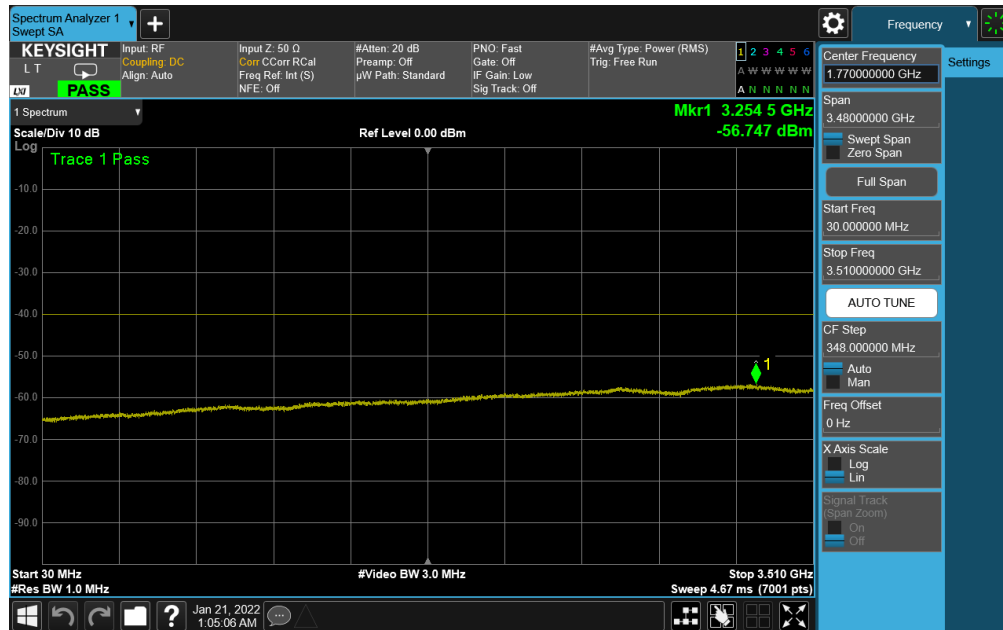
Plot 7-43. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)



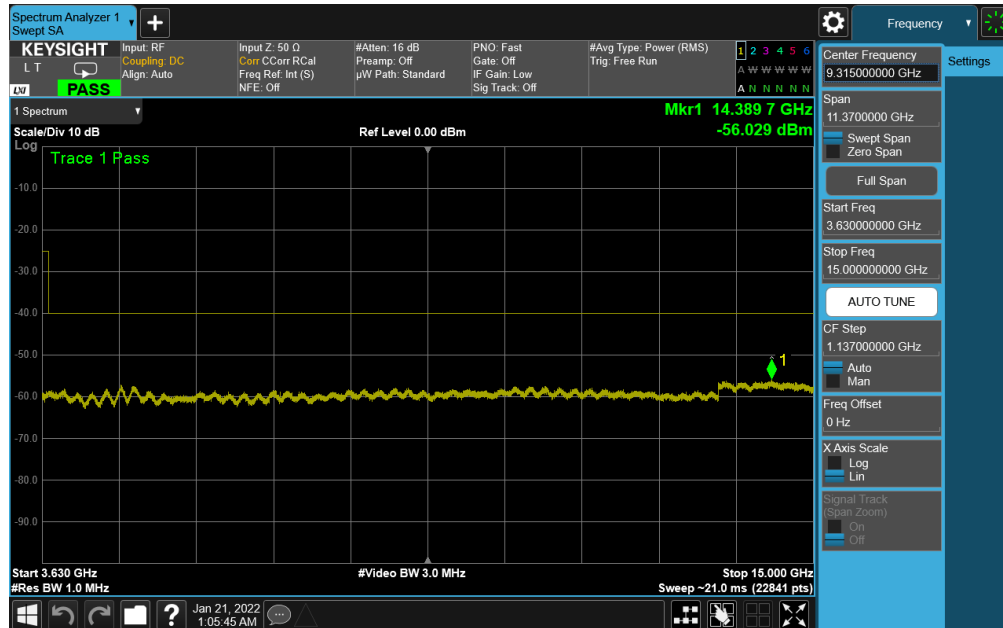
Plot 7-44. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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ULCA LTE Band 48

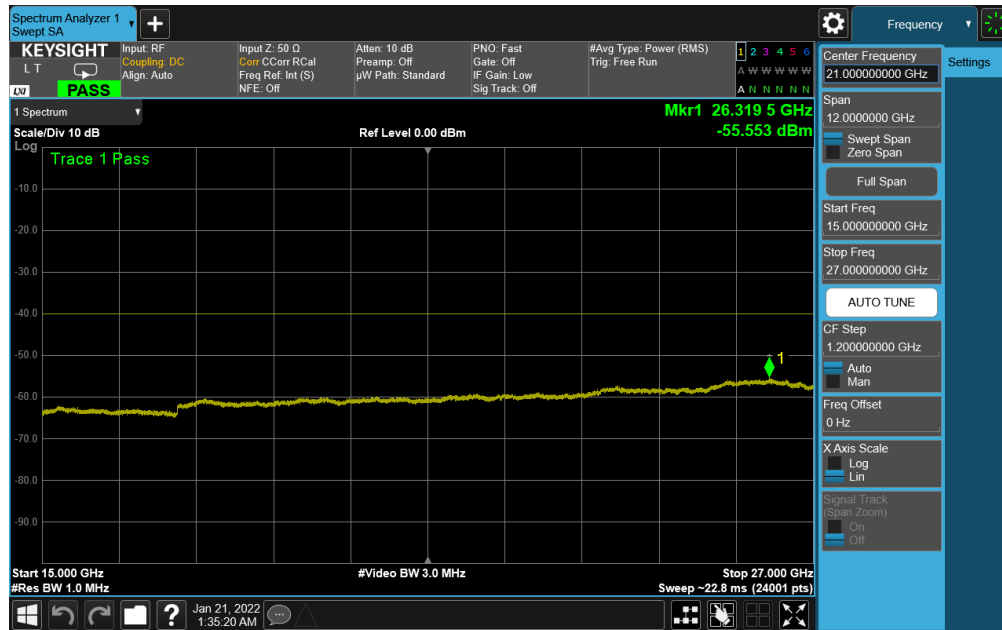


Plot 7-45. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Low Channel)

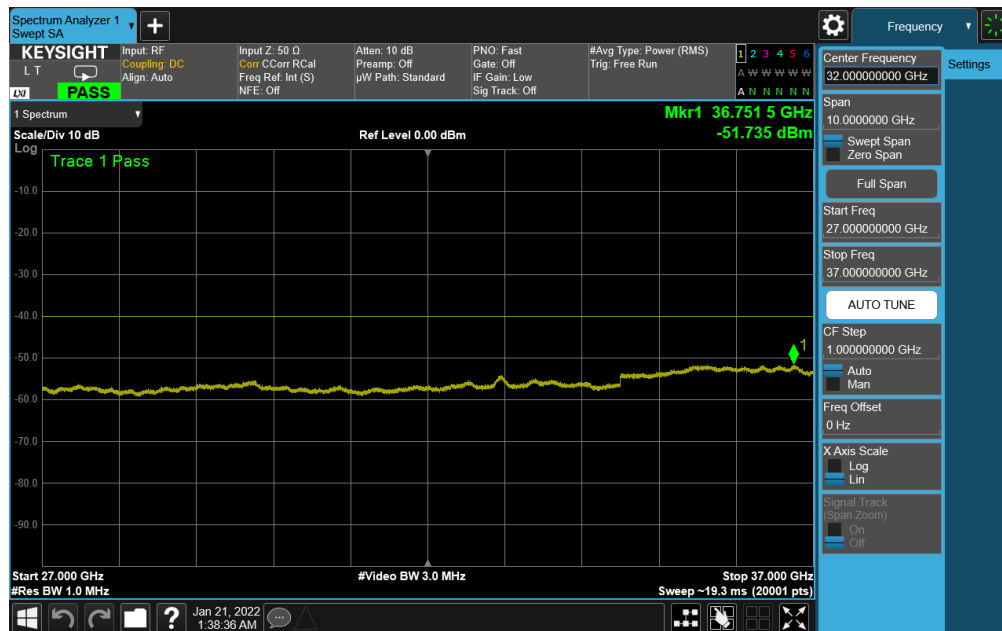


Plot 7-46. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Low Channel)

FCC ID: BCGA2589	PCTEST Proud to be part of 	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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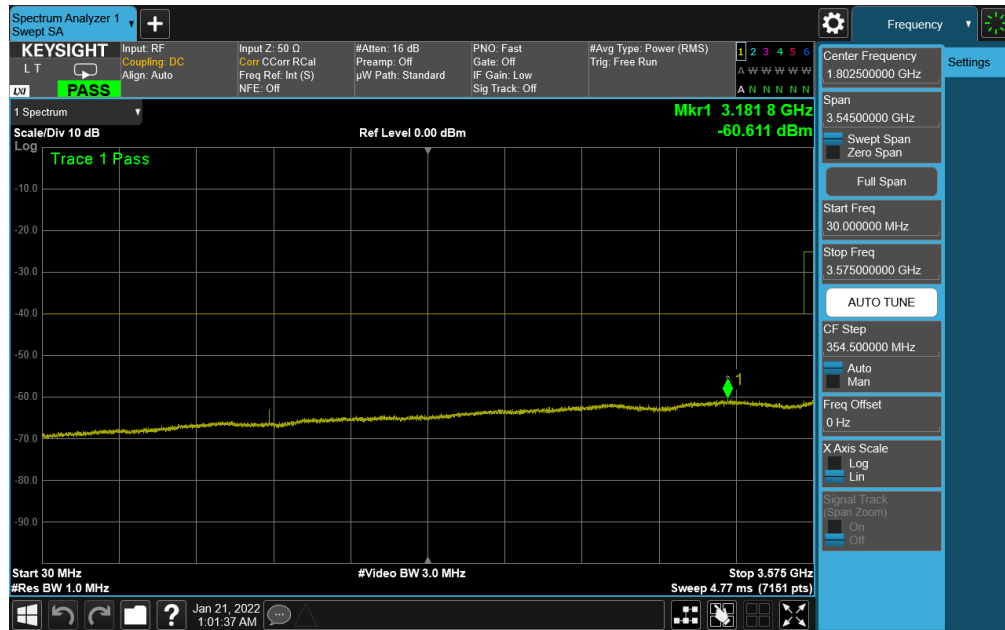


Plot 7-47. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Low Channel)

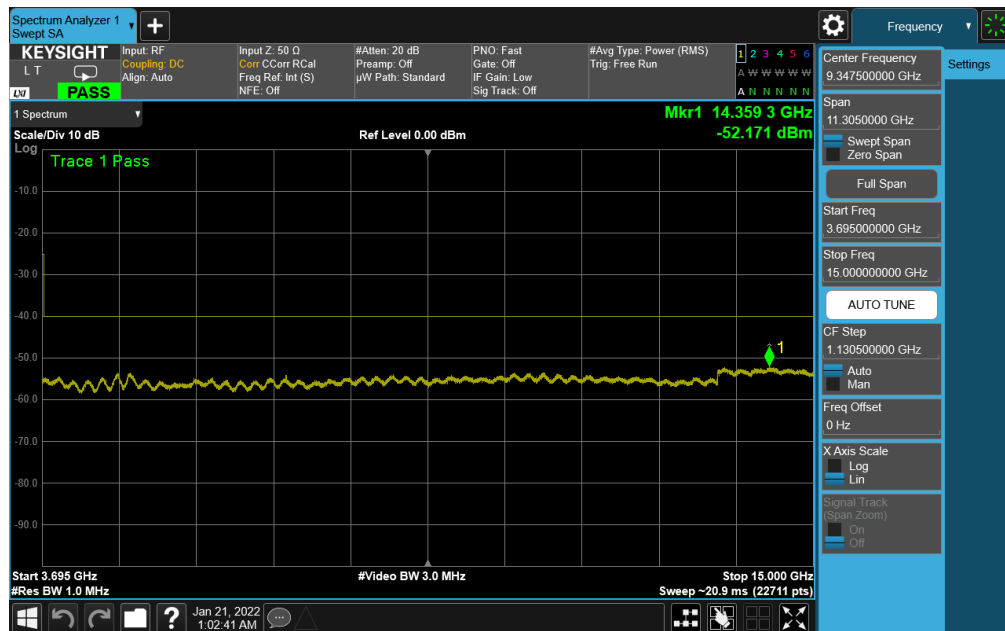


Plot 7-48. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Low Channel)


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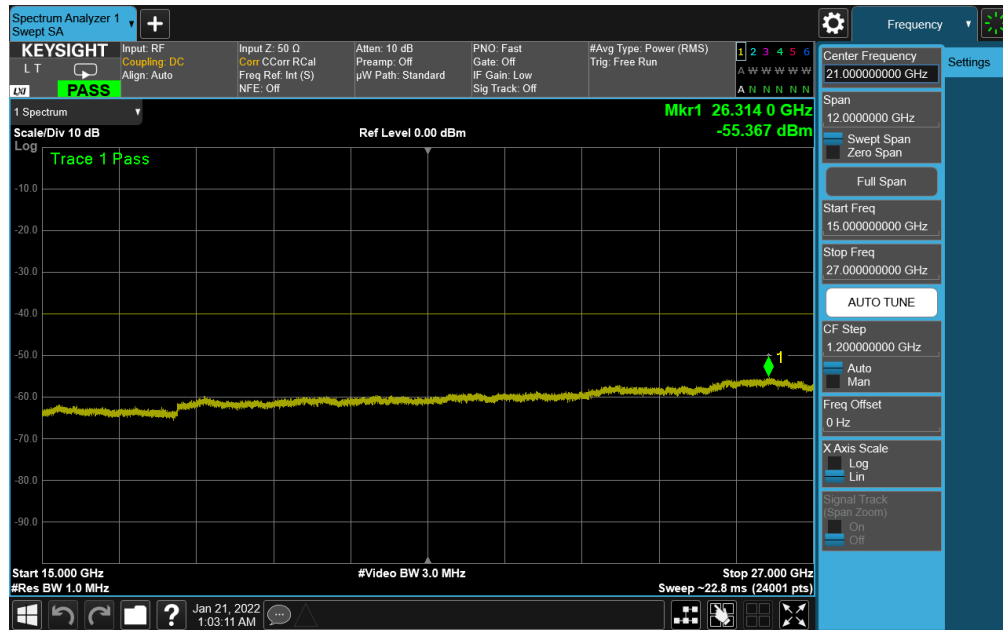


Plot 7-49. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Mid Channel)

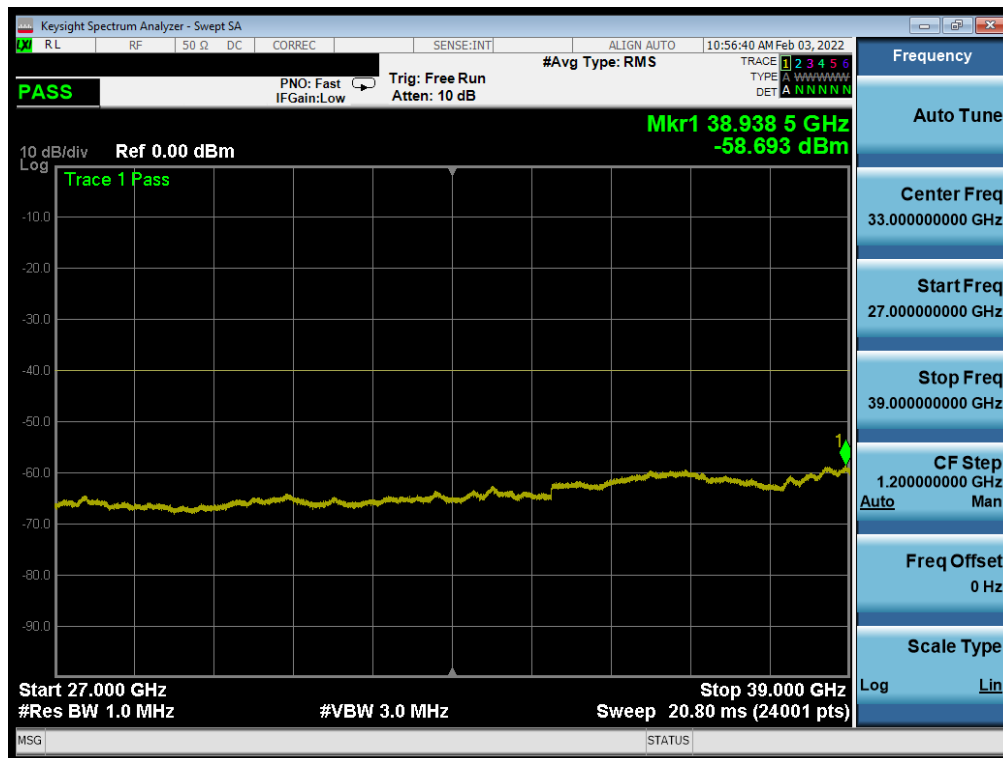


Plot 7-50. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Mid Channel)


FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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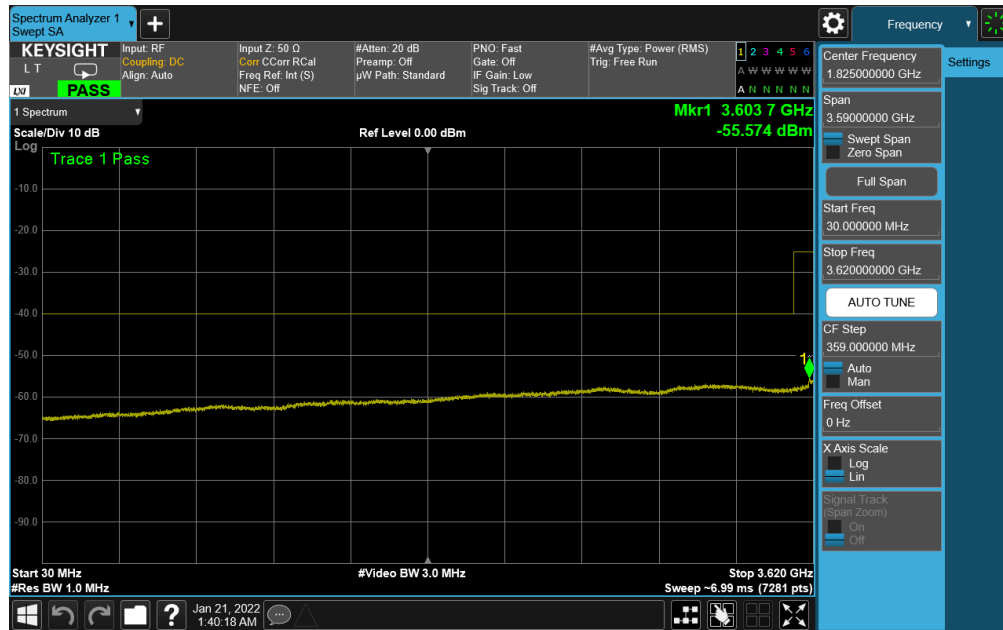


Plot 7-51. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Mid Channel)

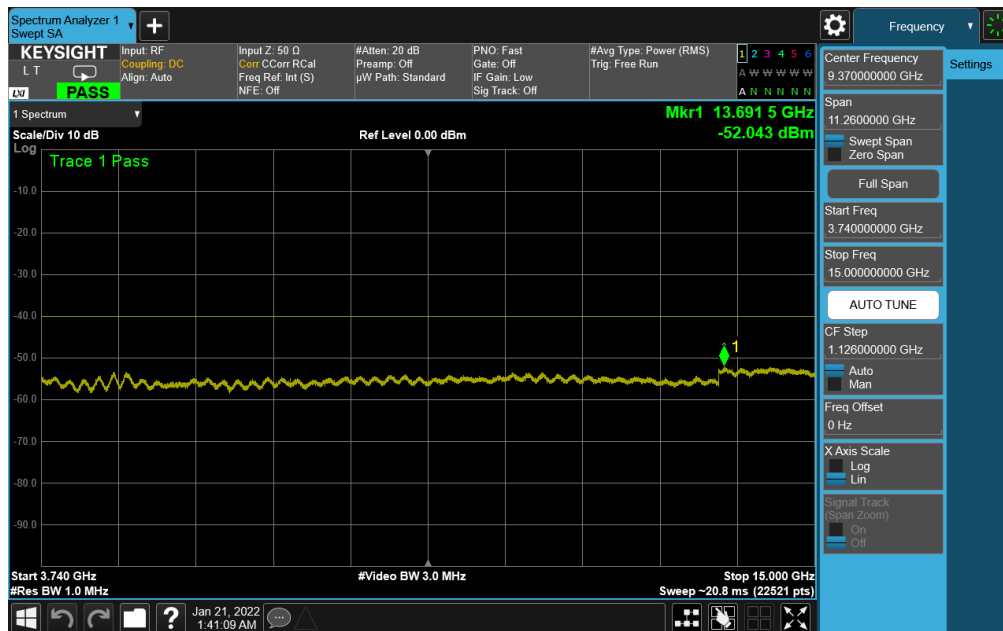


Plot 7-52. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - Mid Channel)

FCC ID: BCGA2589	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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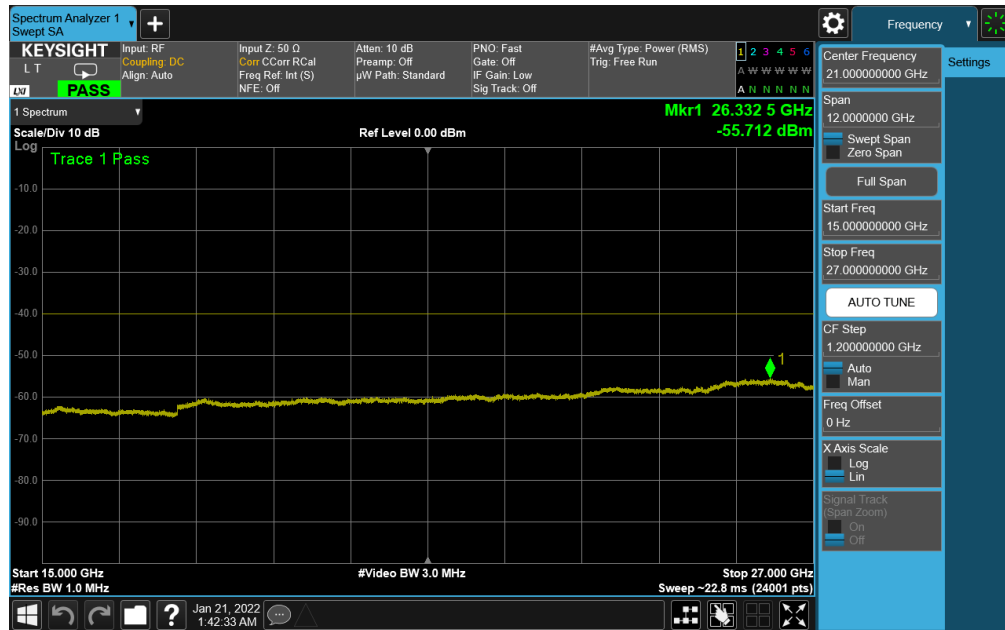


Plot 7-53. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - High Channel)

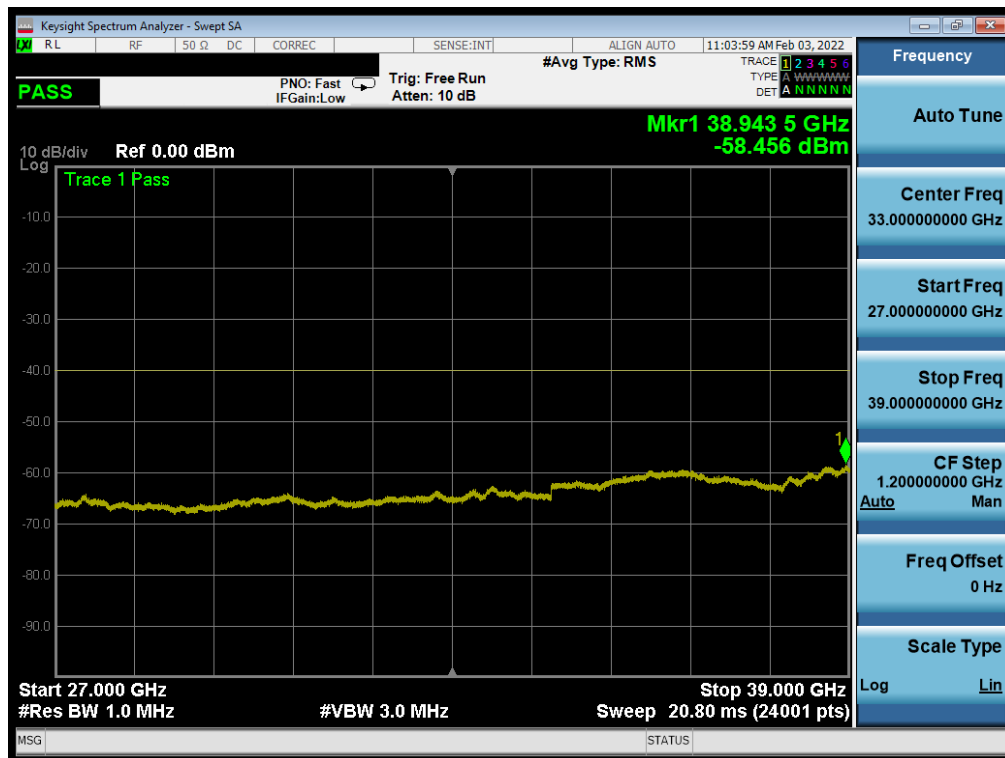


Plot 7-54. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - High Channel)


FCC ID: BCGA2589	PCTEST Proud to be part of element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-55. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - High Channel)



Plot 7-56. Conducted Spurious Plot (ULCA Band 48 - 20+20MHz QPSK - High Channel)

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7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §96.41(e)(ii)

Test Overview

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

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed -25 dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

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

Test Setup

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

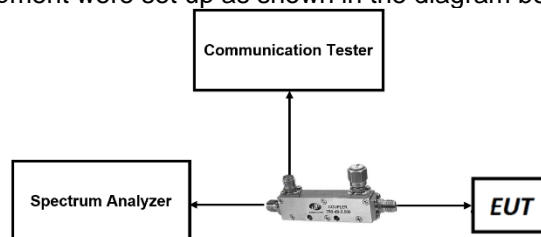



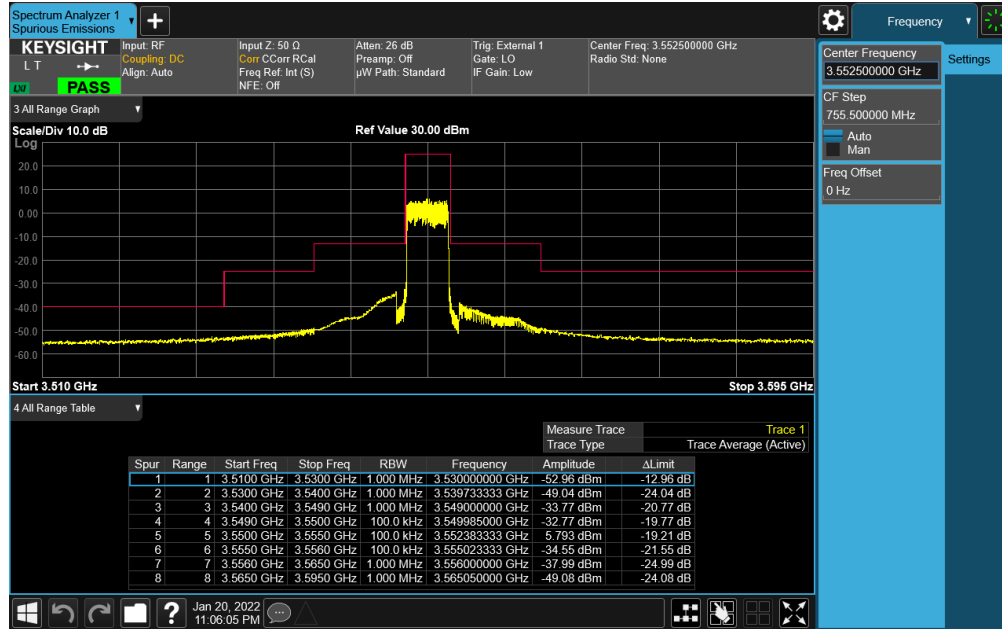
Figure 7-3. Test Instrument & Measurement Setup

Test Notes

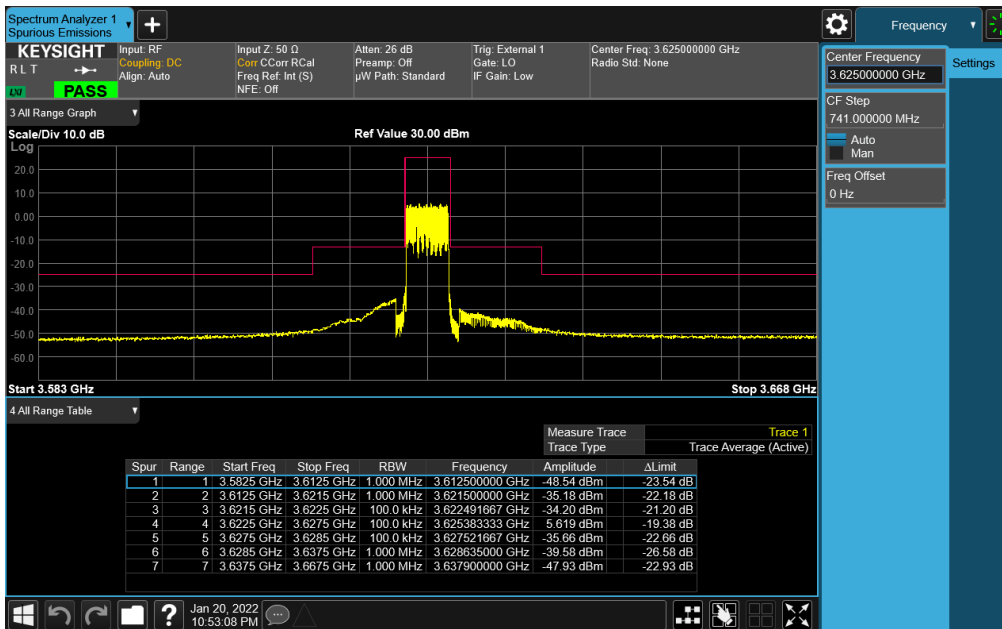
None

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LTE Band 48



Plot 7-57. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Low Channel)



Plot 7-58. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Mid Channel)

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