**PART 24 MEASUREMENT REPORT****Applicant Name:**

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

Date of Testing:

7/15/2025 - 10/11/2025

Test Report Issue Date:

1/16/2026

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100082-08.BCG

FCC ID:

BCGA3462

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3462, A3464

EUT Type:

Tablet Device

FCC Classification:

PCS Licensed Transmitter (PCB)

FCC Rule Part:

24

Test Procedure(s):

ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01
v03r01

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

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



RJ Ortanez

Executive Vice President



FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device
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Revision Summary

Revision	Date	Comments	Revised By
-	1/9/2025	Initial release	WKR0000007837

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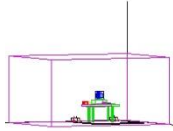
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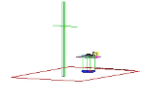
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PART 24 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
WCDMA1900	5 MHz	Spread Spectrum	1852.4 - 1907.6	4.0910	3.37	0.579	27.63	4M09F9W
Band 2	1.4 MHz	QPSK	1850.7 - 1909.3	1.1148	5.02	0.543	27.35	1M11G7W
		16QAM	1850.7 - 1909.3	1.1175	5.67	0.451	26.54	1M12D7W
		64QAM	1850.7 - 1909.3	1.1148	6.64	0.351	25.45	1M11D7W
		256QAM	1850.7 - 1909.3	1.1156	6.74	0.187	22.73	1M12D7W
	3 MHz	QPSK	1851.5 - 1908.5	2.7249	4.80	0.531	27.25	2M72G7W
		16QAM	1851.5 - 1908.5	2.7287	5.76	0.456	26.59	2M73D7W
		64QAM	1851.5 - 1908.5	2.7288	6.59	0.350	25.44	2M73D7W
		256QAM	1851.5 - 1908.5	2.7282	7.59	0.185	22.66	2M73D7W
	5 MHz	QPSK	1852.5 - 1907.5	4.5541	4.97	0.538	27.31	4M55G7W
		16QAM	1852.5 - 1907.5	4.5347	5.60	0.460	26.63	4M53D7W
		64QAM	1852.5 - 1907.5	4.5469	6.56	0.352	25.46	4M55D7W
		256QAM	1852.5 - 1907.5	4.5331	6.91	0.187	22.71	4M53D7W
	10MHz	QPSK	1855 - 1905	9.0519	4.92	0.540	27.32	9M05G7W
		16QAM	1856 - 1905	9.0639	5.62	0.449	26.52	9M06D7W
		64QAM	1857 - 1905	9.0526	6.52	0.358	25.54	9M05D7W
		256QAM	1858 - 1905	9.0485	6.55	0.185	22.67	9M05D7W
	15 MHz	QPSK	1857.5 - 1902.5	13.5527	5.17	0.531	27.25	13M6G7W
		16QAM	1857.5 - 1902.5	13.5471	5.76	0.456	26.59	13M5D7W
		64QAM	1857.5 - 1902.5	13.5647	6.59	0.353	25.48	13M6D7W
		256QAM	1857.5 - 1902.5	13.5466	6.60	0.189	22.76	13M5D7W
	20 MHz	QPSK	1860 - 1900	18.0446	5.08	0.541	27.33	18M0G7W
		16QAM	1860 - 1900	18.0253	5.73	0.462	26.65	18M0D7W
		64QAM	1860 - 1900	18.0748	6.61	0.365	25.62	18M1D7W
		256QAM	1860 - 1900	17.9835	6.70	0.191	22.81	18M0D7W
Band 25	1.4 MHz	QPSK	1850.7 - 1914.3	1.1148	5.01	0.570	27.56	1M11G7W
		16QAM	1850.7 - 1914.3	1.1175	5.73	0.466	26.68	1M12D7W
		64QAM	1850.7 - 1914.3	1.1148	6.76	0.366	25.63	1M11D7W
		256QAM	1850.7 - 1914.3	1.1156	6.79	0.195	22.91	1M12D7W
	3 MHz	QPSK	1851.5 - 1913.5	2.7249	4.80	0.547	27.38	2M72G7W
		16QAM	1851.5 - 1913.5	2.7287	5.74	0.468	26.70	2M73D7W
		64QAM	1851.5 - 1913.5	2.7288	6.64	0.372	25.70	2M73D7W
		256QAM	1851.5 - 1913.5	2.7282	6.86	0.201	23.04	2M73D7W
	5 MHz	QPSK	1852.5 - 1912.5	4.5541	4.98	0.555	27.44	4M55G7W
		16QAM	1852.5 - 1912.5	4.5347	5.64	0.469	26.71	4M53D7W
		64QAM	1852.5 - 1912.5	4.5469	6.65	0.378	25.78	4M55D7W
		256QAM	1852.5 - 1912.5	4.5331	6.96	0.195	22.89	4M53D7W
	10 MHz	QPSK	1855 - 1910	9.0519	4.91	0.568	27.54	9M05G7W
		16QAM	1855 - 1910	9.0639	5.55	0.475	26.77	9M06D7W
		64QAM	1855 - 1910	9.0526	6.52	0.371	25.69	9M05D7W
		256QAM	1855 - 1910	9.0485	7.10	0.194	22.88	9M05D7W
	15 MHz	QPSK	1857.5 - 1907.5	13.5527	5.12	0.558	27.47	13M6G7W
		16QAM	1857.5 - 1907.5	13.5471	5.75	0.478	26.79	13M5D7W
		64QAM	1857.5 - 1907.5	13.5647	6.59	0.385	25.86	13M6D7W
		256QAM	1857.5 - 1907.5	13.5466	6.67	0.201	23.03	13M5D7W
	20 MHz	QPSK	1860 - 1905	18.0446	4.99	0.575	27.60	18M0G7W
		16QAM	1860 - 1905	18.0253	5.68	0.500	26.99	18M0D7W
		64QAM	1860 - 1905	18.0748	6.57	0.392	25.93	18M1D7W
		256QAM	1860 - 1905	17.9835	6.64	0.196	22.93	18M0D7W

EUT Overview

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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]	
NR Band n2	5 MHz	$\pi/2$ BPSK	1852.5 - 1907.5	4.5045	4.04	0.557	27.46	4M50G7W
		QPSK	1852.5 - 1907.5	4.4781	4.76	0.577	27.61	4M48G7W
		16QAM	1852.5 - 1907.5	4.4700	5.79	0.427	26.30	4M47D7W
		64QAM	1852.5 - 1907.5	4.4820	6.38	0.367	25.65	4M48D7W
		256QAM	1852.5 - 1907.5	4.4773	6.38	0.228	23.58	4M48D7W
	10 MHz	$\pi/2$ BPSK	1855 - 1905	8.8765	3.98	0.561	27.49	8M88G7W
		QPSK	1855 - 1905	9.2930	4.78	0.570	27.56	9M29G7W
		16QAM	1855 - 1905	9.2873	5.87	0.429	26.32	9M29D7W
		64QAM	1855 - 1905	9.3046	6.30	0.358	25.54	9M30D7W
		256QAM	1855 - 1905	9.3335	6.45	0.227	23.56	9M33D7W
	15 MHz	$\pi/2$ BPSK	1857.5 - 1902.5	13.4706	4.02	0.553	27.43	13M5G7W
		QPSK	1857.5 - 1902.5	14.1485	4.87	0.555	27.44	14M1G7W
		16QAM	1857.5 - 1902.5	14.1743	5.73	0.428	26.31	14M2D7W
		64QAM	1857.5 - 1902.5	14.1365	6.29	0.352	25.47	14M1D7W
		256QAM	1857.5 - 1902.5	14.0970	6.38	0.221	23.45	14M1D7W
	20 MHz	$\pi/2$ BPSK	1860 - 1900	17.9420	4.04	0.561	27.49	17M9G7W
		QPSK	1860 - 1900	19.0130	4.78	0.551	27.41	19M0G7W
		16QAM	1860 - 1900	18.9589	5.67	0.426	26.29	19M0D7W
		64QAM	1860 - 1900	18.9502	6.33	0.358	25.54	19M0D7W
		256QAM	1860 - 1900	19.0051	6.34	0.224	23.50	19M0D7W
	25 MHz	$\pi/2$ BPSK	1862.5 - 1897.5	22.8589	4.25	0.557	27.46	22M9G7W
		QPSK	1862.5 - 1897.5	23.8195	4.90	0.545	27.36	23M8G7W
		16QAM	1862.5 - 1897.5	23.7657	5.71	0.420	26.23	23M8D7W
		64QAM	1862.5 - 1897.5	23.7737	6.31	0.359	25.55	23M8D7W
		256QAM	1862.5 - 1897.5	23.7161	6.33	0.225	23.52	23M7D7W
	30 MHz	$\pi/2$ BPSK	1865 - 1895	28.5112	4.16	0.556	27.45	28M5G7W
		QPSK	1865 - 1895	28.6375	5.04	0.556	27.45	28M6G7W
		16QAM	1865 - 1895	28.5767	5.79	0.433	26.36	28M6D7W
		64QAM	1865 - 1895	28.6078	6.46	0.354	25.49	28M6D7W
		256QAM	1865 - 1895	28.6146	6.43	0.223	23.49	28M6D7W
	35 MHz	$\pi/2$ BPSK	1867.5 - 1892.5	32.1019	4.22	0.562	27.50	32M1G7W
		QPSK	1867.5 - 1892.5	33.5619	4.96	0.548	27.39	33M6G7W
		16QAM	1867.5 - 1892.5	33.6371	5.81	0.426	26.29	33M6D7W
		64QAM	1867.5 - 1892.5	33.6186	6.36	0.356	25.51	33M6D7W
		256QAM	1867.5 - 1892.5	33.6458	6.45	0.224	23.50	33M6D7W
	40 MHz	$\pi/2$ BPSK	1870 - 1890	38.5263	4.81	0.557	27.46	38M5G7W
		QPSK	1870 - 1890	38.6461	5.25	0.568	27.54	38M6G7W
		16QAM	1870 - 1890	38.7025	5.77	0.429	26.32	38M7D7W
		64QAM	1870 - 1890	38.6267	6.34	0.352	25.47	38M6D7W
		256QAM	1870 - 1890	38.7068	6.41	0.223	23.48	38M7D7W
NR Band n25	5 MHz	$\pi/2$ BPSK	1852.5 - 1912.5	4.5045	4.04	0.565	27.52	4M50G7W
		QPSK	1852.5 - 1912.5	4.4781	4.77	0.568	27.54	4M48G7W
		16QAM	1852.5 - 1912.5	4.4700	5.79	0.428	26.31	4M47D7W
		64QAM	1852.5 - 1912.5	4.4820	6.41	0.363	25.60	4M48D7W
		256QAM	1852.5 - 1912.5	4.4773	6.43	0.228	23.58	4M48D7W
	10 MHz	$\pi/2$ BPSK	1855 - 1910	8.8765	4.02	0.582	27.65	8M88G7W
		QPSK	1855 - 1910	9.2930	4.81	0.570	27.56	9M29G7W
		16QAM	1855 - 1910	9.2873	5.90	0.432	26.35	9M29D7W
		64QAM	1855 - 1910	9.3046	6.34	0.356	25.51	9M30D7W
		256QAM	1855 - 1910	9.3335	6.52	0.227	23.56	9M33D7W
	15 MHz	$\pi/2$ BPSK	1857.5 - 1907.5	13.4706	4.08	0.557	27.46	13M5G7W
		QPSK	1857.5 - 1907.5	14.1485	4.93	0.571	27.57	14M1G7W
		16QAM	1857.5 - 1907.5	14.1743	5.77	0.425	26.28	14M2D7W
		64QAM	1857.5 - 1907.5	14.1365	6.39	0.352	25.46	14M1D7W
		256QAM	1857.5 - 1907.5	14.0970	6.48	0.222	23.46	14M1D7W
	20 MHz	$\pi/2$ BPSK	1860 - 1905	17.9420	4.06	0.560	27.48	17M9G7W
		QPSK	1860 - 1905	19.0130	4.81	0.558	27.47	19M0G7W
		16QAM	1860 - 1905	18.9589	5.72	0.423	26.26	19M0D7W
		64QAM	1860 - 1905	18.9502	6.36	0.356	25.52	19M0D7W
		256QAM	1860 - 1905	19.0051	6.39	0.223	23.49	19M0D7W
	25 MHz	$\pi/2$ BPSK	1862.5 - 1902.5	22.8589	4.26	0.558	27.47	22M9G7W
		QPSK	1862.5 - 1902.5	23.8195	4.92	0.553	27.43	23M8G7W
		16QAM	1862.5 - 1902.5	23.7657	5.73	0.418	26.21	23M8D7W
		64QAM	1862.5 - 1902.5	23.7737	6.34	0.358	25.54	23M8D7W
		256QAM	1862.5 - 1902.5	23.7161	6.35	0.225	23.52	23M7D7W
	30 MHz	$\pi/2$ BPSK	1865 - 1900	28.5112	4.05	0.560	27.48	28M5G7W
		QPSK	1865 - 1900	28.6375	4.92	0.560	27.48	28M6G7W
		16QAM	1865 - 1900	28.5767	5.73	0.434	26.37	28M6D7W
		64QAM	1865 - 1900	28.6078	6.38	0.356	25.51	28M6D7W
		256QAM	1865 - 1900	28.6146	6.39	0.223	23.49	28M6D7W
	35 MHz	$\pi/2$ BPSK	1867.5 - 1897.5	32.1019	4.19	0.556	27.45	32M1G7W
		QPSK	1867.5 - 1897.5	33.5619	4.85	0.565	27.52	33M6G7W
		16QAM	1867.5 - 1897.5	33.6371	5.75	0.424	26.27	33M6D7W
		64QAM	1867.5 - 1897.5	33.6186	6.29	0.350	25.44	33M6D7W
		256QAM	1867.5 - 1897.5	33.6458	6.41	0.223	23.48	33M6D7W
	40 MHz	$\pi/2$ BPSK	1870 - 1895	38.5263	4.61	0.555	27.44	38M5G7W
		QPSK	1870 - 1895	38.6461	5.07	0.552	27.42	38M6G7W
		16QAM	1870 - 1895	38.7025	5.69	0.433	26.36	38M7D7W
		64QAM	1870 - 1895	38.6267	6.24	0.351	25.45	38M6D7W
		256QAM	1870 - 1895	38.7068	6.37	0.222	23.46	38M7D7W

EUT Overview

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1.0 INTRODUCTION

1.1 Scope

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

1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology.

- 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:BCGA3462**. 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 24.

Test Device Serial No.: DLXHK0000AL00013Z2, DLXHK00009N00013Z2, GWY39VJJW9, FYWF367CGQ, D09M694XGP

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/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT

This device supports BT Beamforming

This device supports channel puncturing and channel bandwidth reduction.

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, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 1a	Config 1	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1a	Config 2	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 3	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1b	Config 4	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 1b	Config 5	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 1b	Config 6	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 3a	Config 7	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 3a	Config 8	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 3a	Config 9	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 3b	Config 10	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3b	Config 11	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3b	Config 12	✗	✗	✗	✓	✗	✗	✗	✓	✗

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 8 and reported in RF Part 96 and RF Bluetooth test reports.

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2.3 Antenna Description

The following antenna gains provided by the manufacturer were used for testing.

Band	Antenna Gain [dBi]			
	Antenna 4	Antenna 2	Antenna 3b	Antenna 1b
WCDMA 1900	2.2	2.4	-0.3	0.6
LTE Band 2/25				
NR Band n2/n25				

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:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A2795	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

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 were reported.

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 23D40 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure.....None

3.2 Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

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

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

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

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.00
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz-1GHz)	4.96
Radiated Disturbance (1-18GHz)	5.18

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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	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/16/2025	Annual	4/16/2026	218555
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted RF Cable *	6/10/2025	Annual	6/10/2026	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/10/2025	Annual	6/10/2026	1946
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	9/5/2024	Annual	9/5/2025	MY61320121
Keysight Technology	N9040B	UXA Signal Analyzer	1/31/2025	Annual	1/31/2026	MY60080210
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	5/13/2025	Annual	5/13/2026	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/3/2025	Annual	10/3/2026	171008
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/4/2025	Annual	3/4/2026	164715

Table 5-1. Test Equipment

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 has been internally verified/calibrated.

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6.0 SAMPLE CALCULATIONS

Emission Designator

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

$\pi/2$ 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: BCGA3462
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): WCDMA/LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	Pass	Section 7.2
	Conducted Band Edge / Spurious Emissions	2.1051, 24.238(a)	-13 dBm at Band Edge and for all out-of-band emissions	Pass	Sections 7.3, 7.4
	Peak-Average Ratio	24.232(d)	< 13 dB	Pass	Section 7.5
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Frequency Stability	2.1055, 24.235	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	Pass	Section 7.8
	Equivalent Isotropic Radiated Power	24.232(c)	< 2 Watts max. EIRP	Pass	Section 7.6
RADIATED	Radiated Spurious Emissions	2.1053, 24.238(a)	-13 dBm for all out-of-band emissions	Pass	Section 7.7

Table 7-1. Summary of Test Results

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 is Element EMC Software Tool v1.1.
5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.6.1.

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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

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Test Setup

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

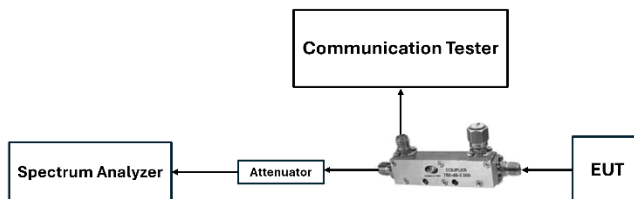


Figure 7-1. LTE Test Instrument & Measurement Setup

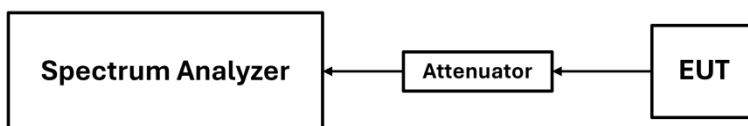


Figure 7-2. FR1 Test Instrument & Measurement Setup

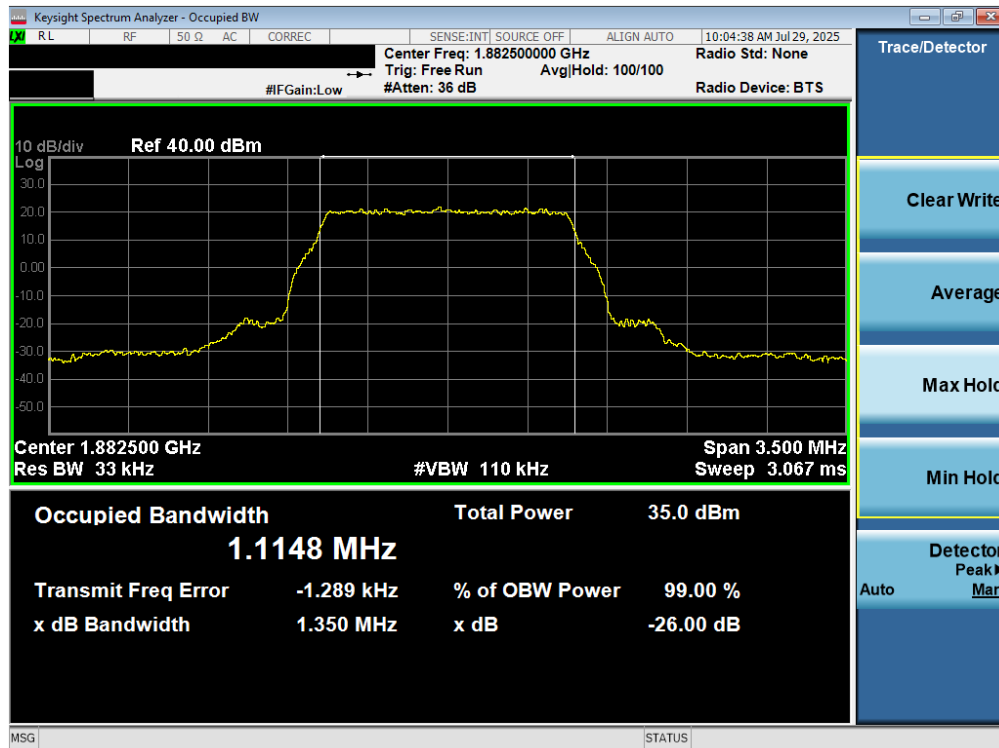
Test Notes

1. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

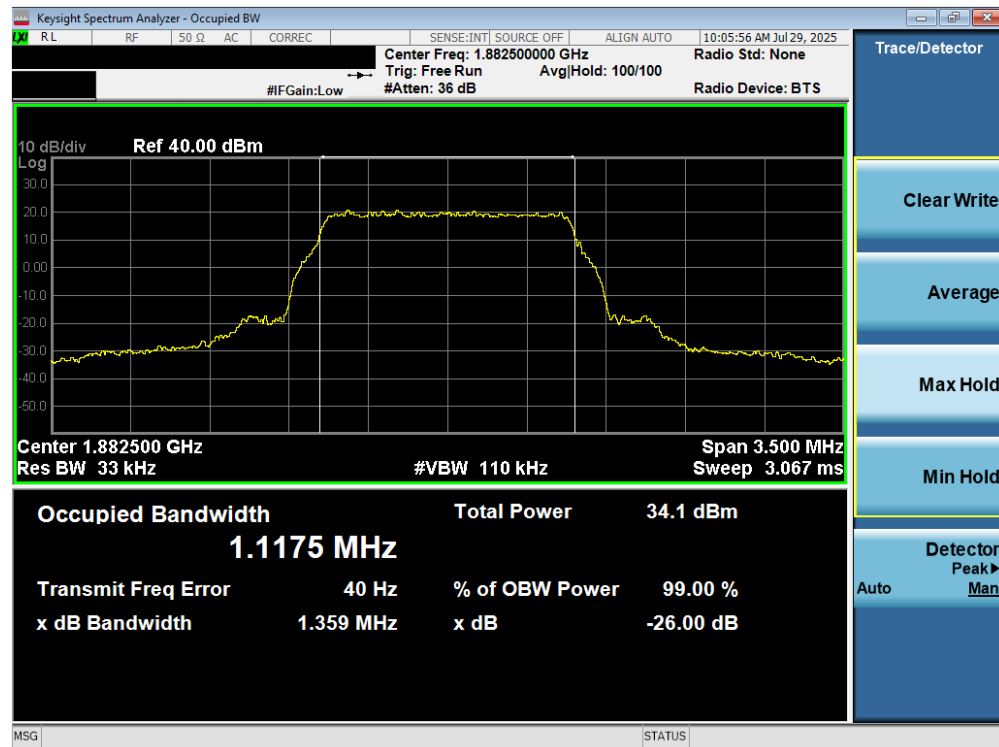
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LTE Band 25/2



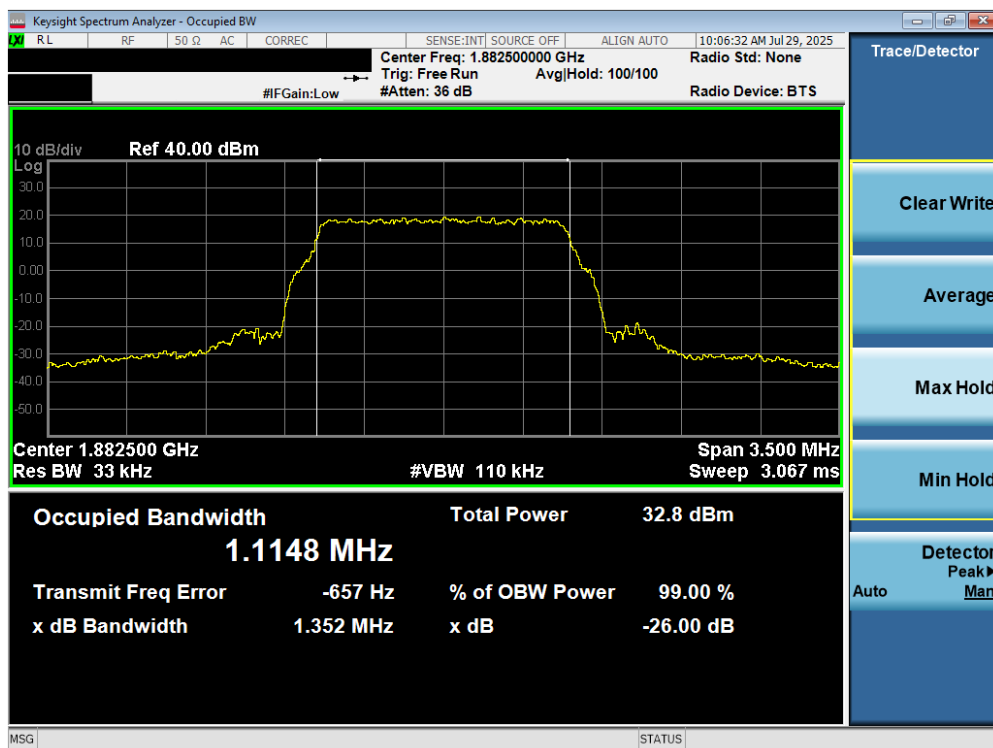
Plot 7-1. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



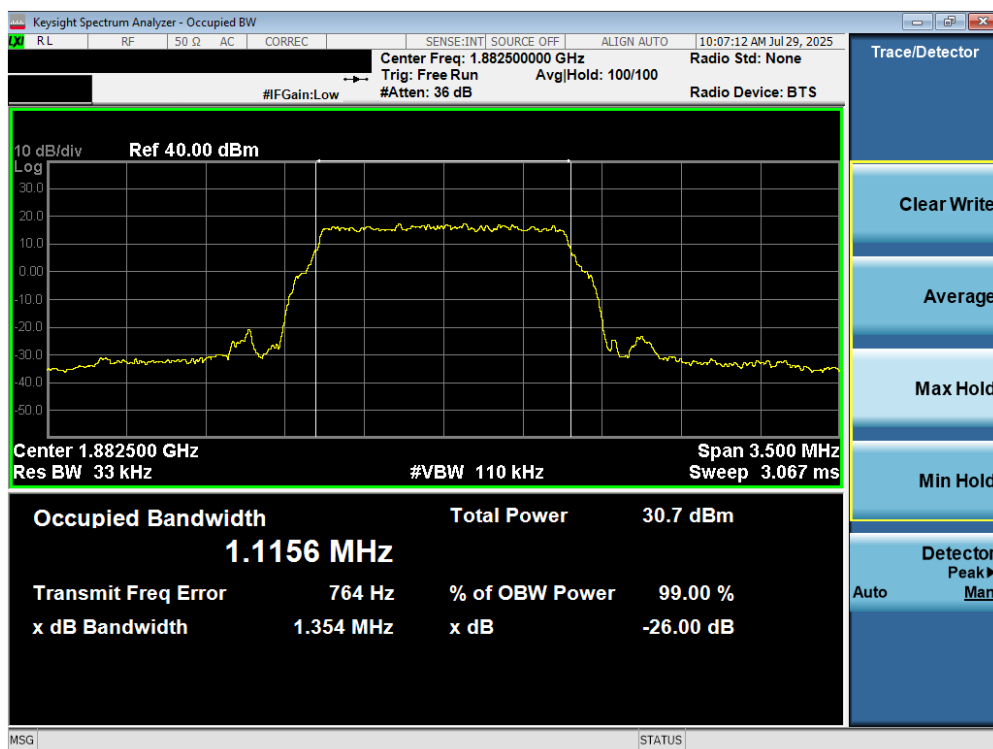
Plot 7-2. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

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Plot 7-3. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)

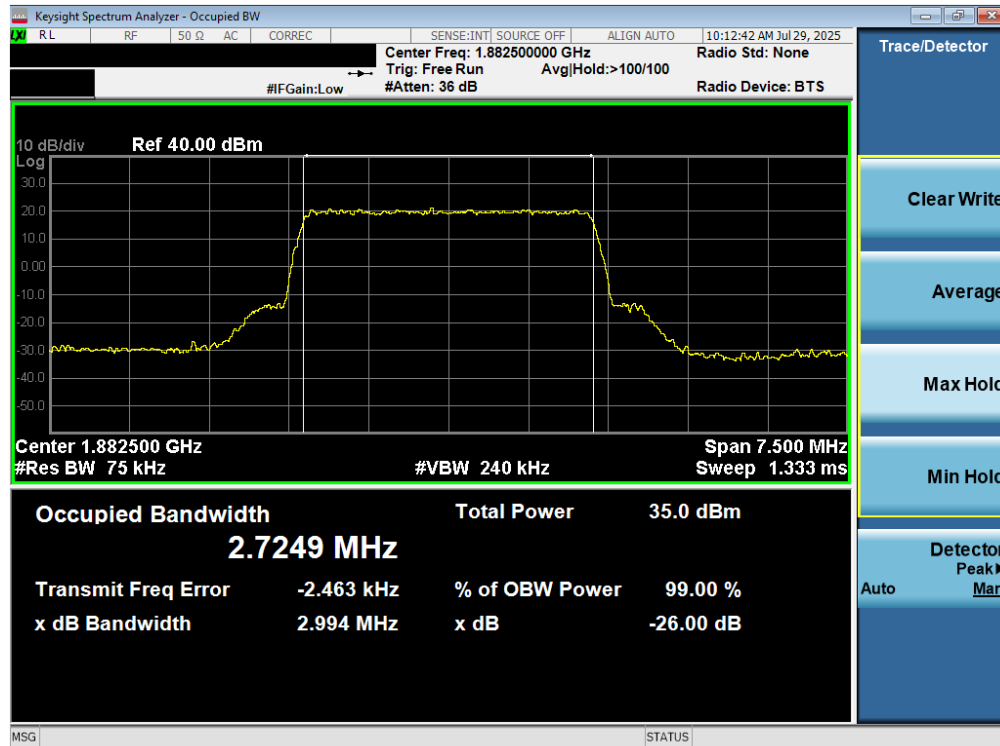


P6.lot 7-4. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB Configuration)

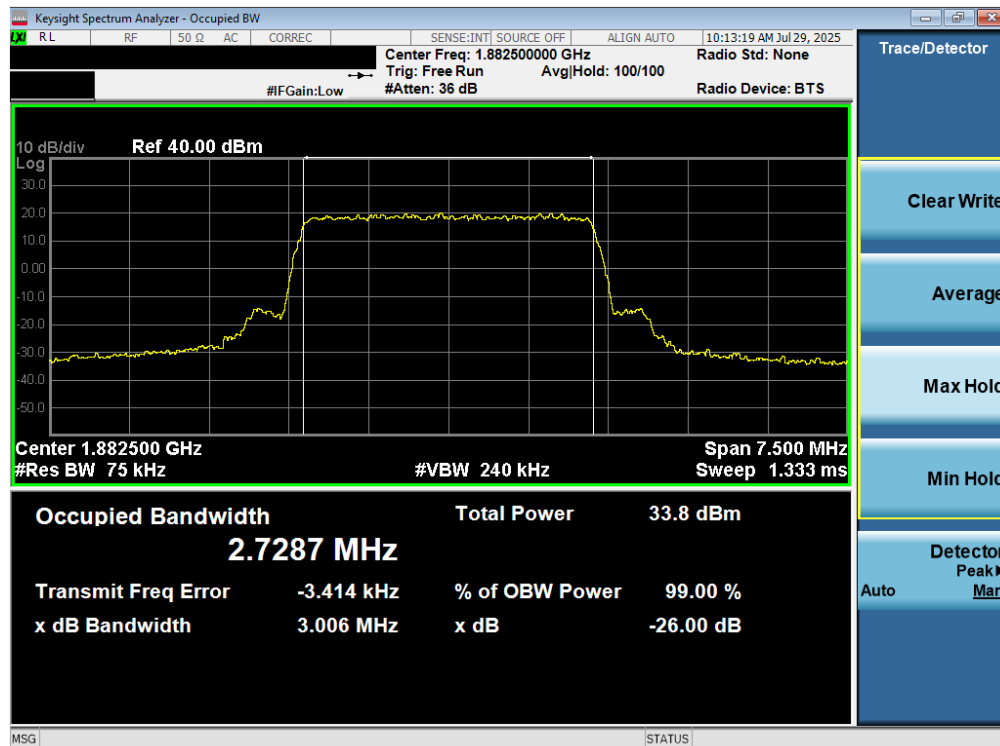
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Plot 7-5. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)

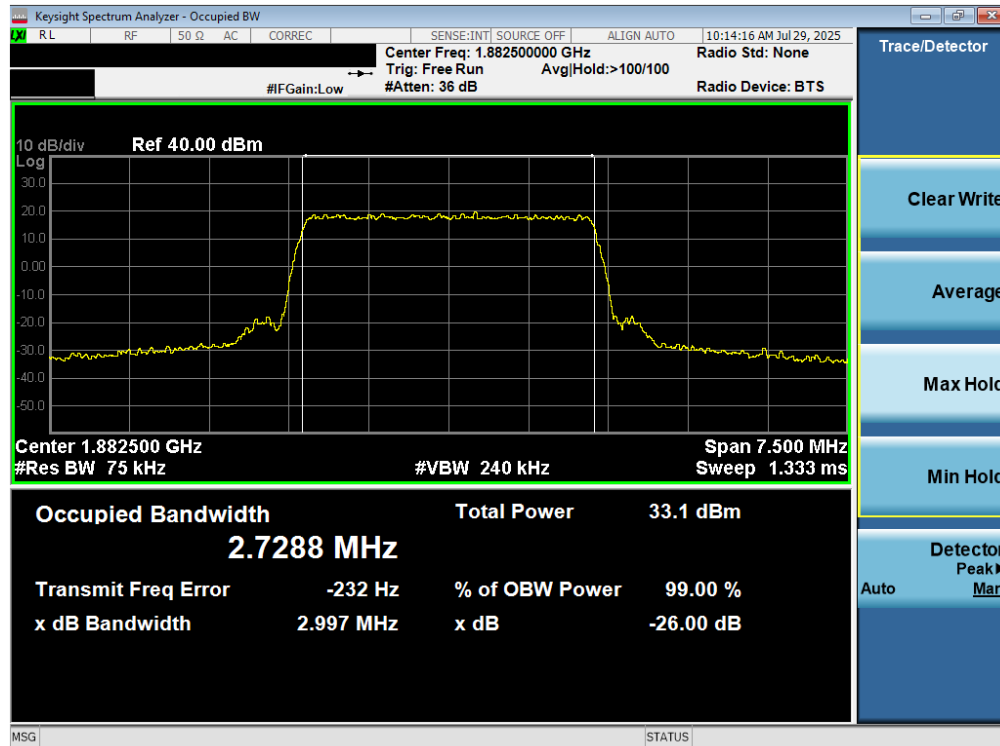


Plot 7-6. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

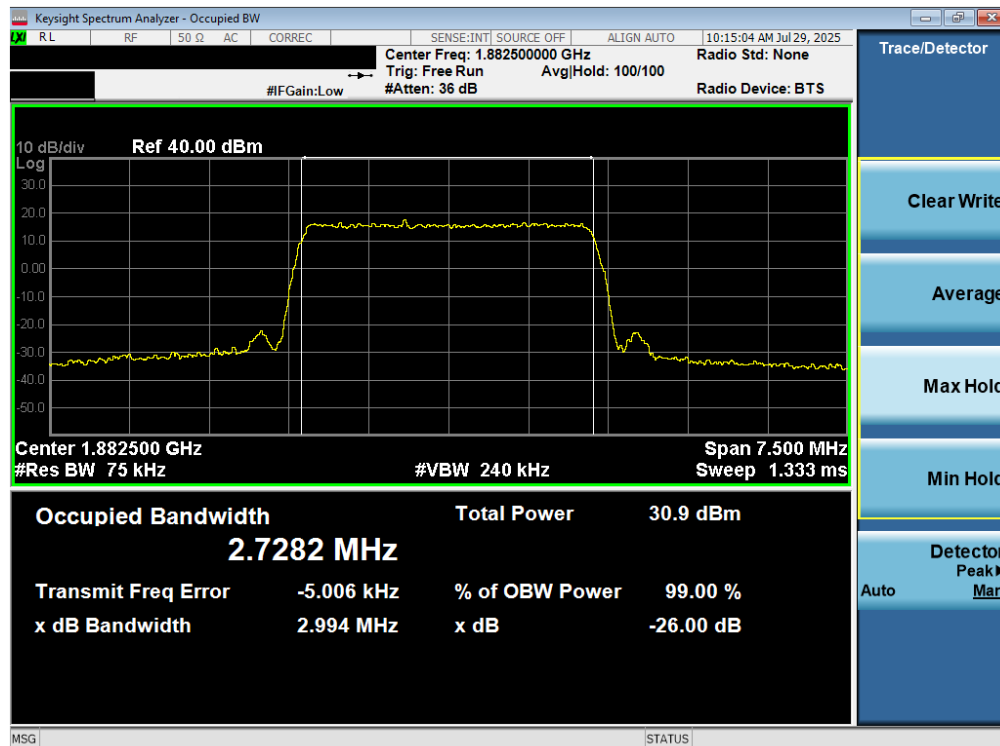
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-7. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB Configuration)

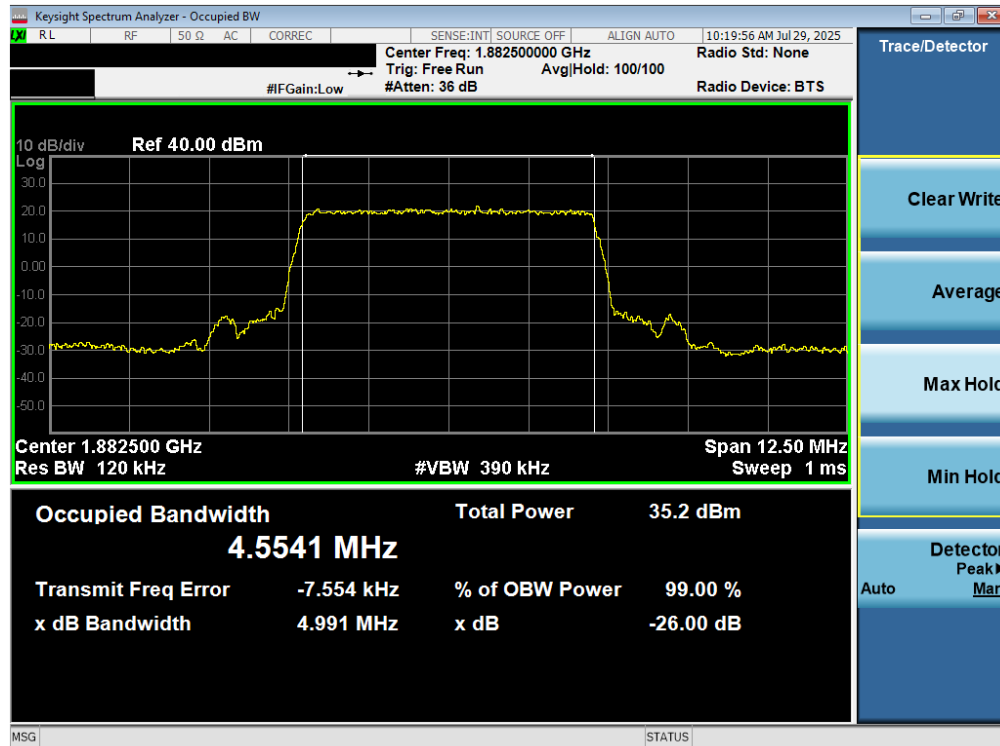


Plot 7-8. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB Configuration)

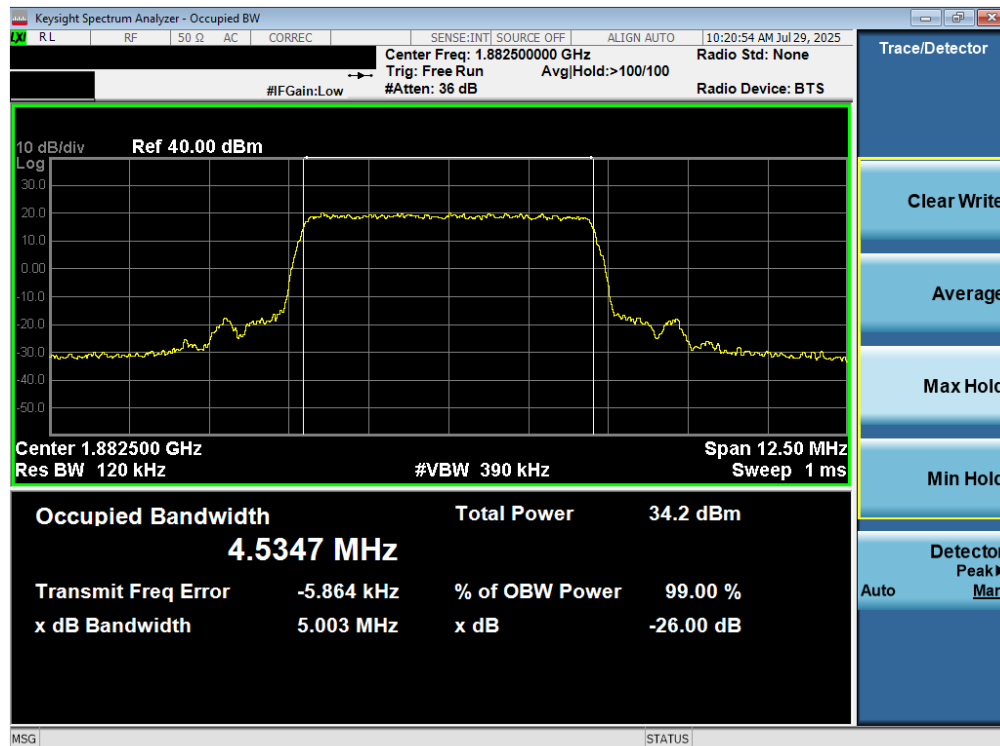
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Plot 7-9. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

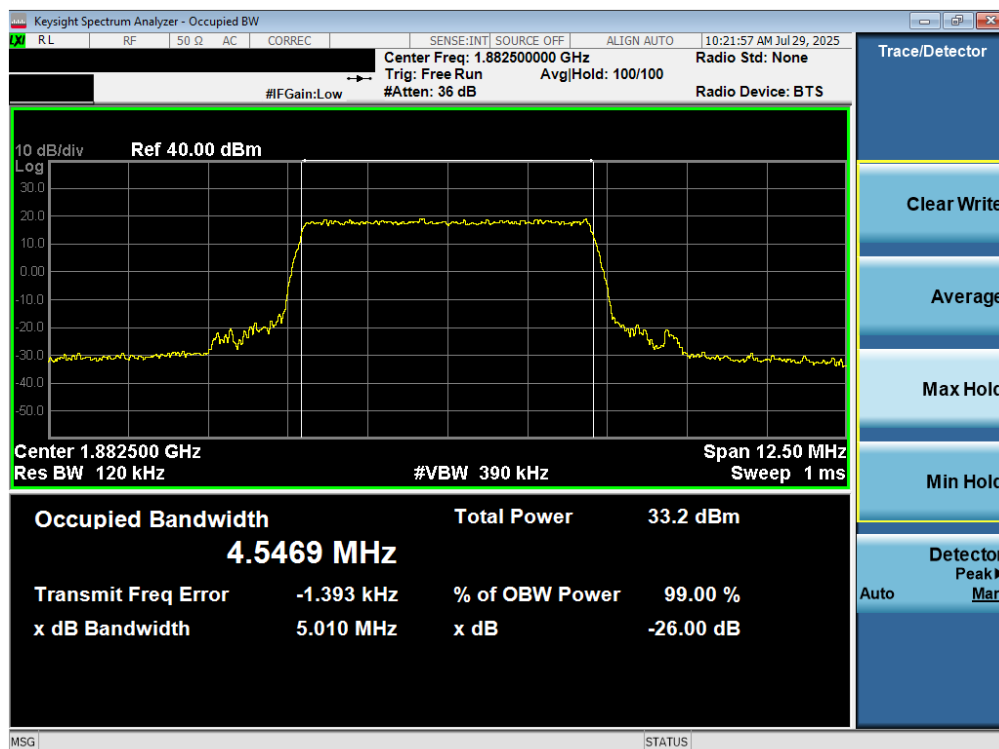


Plot 7-10. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)

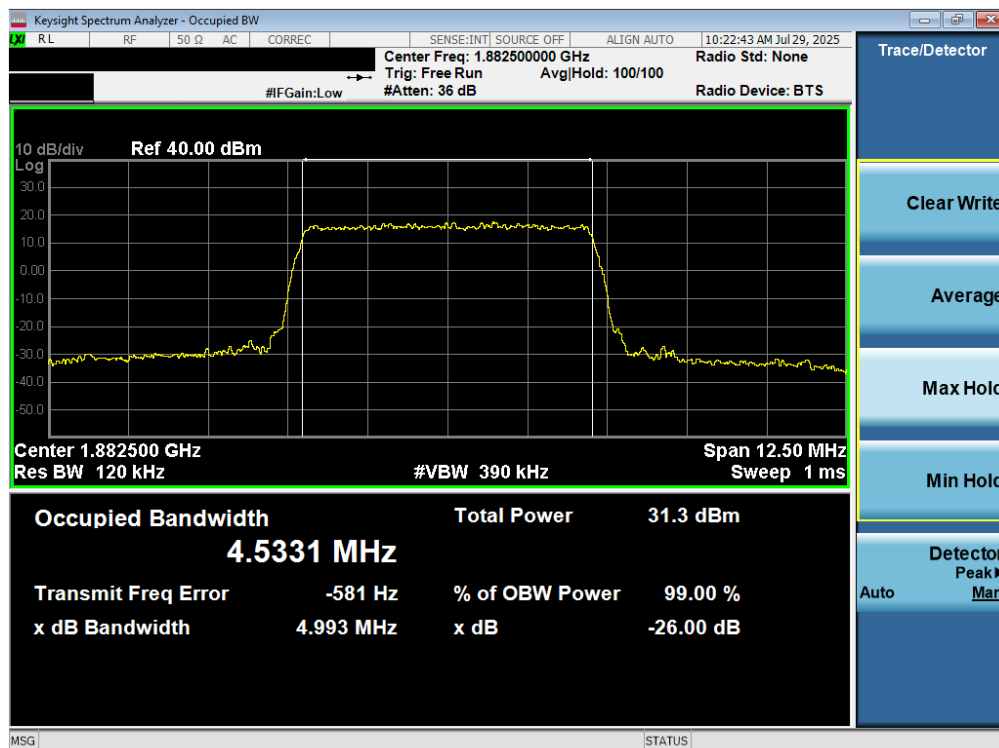
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Plot 7-11. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB Configuration)



Plot 7-12. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB Configuration)

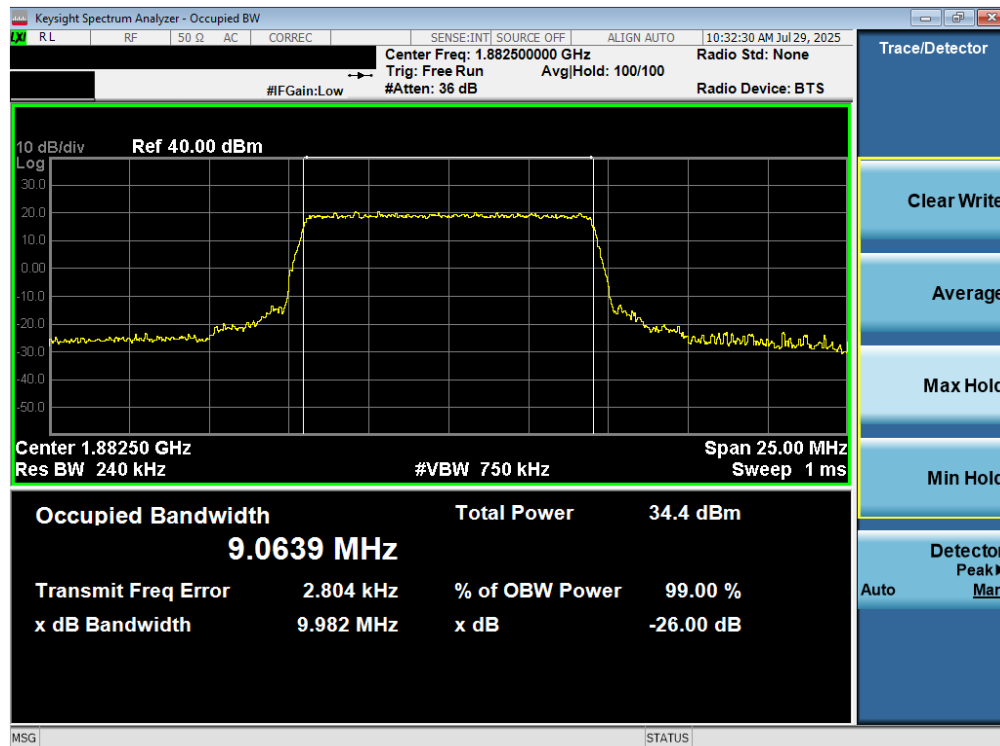
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

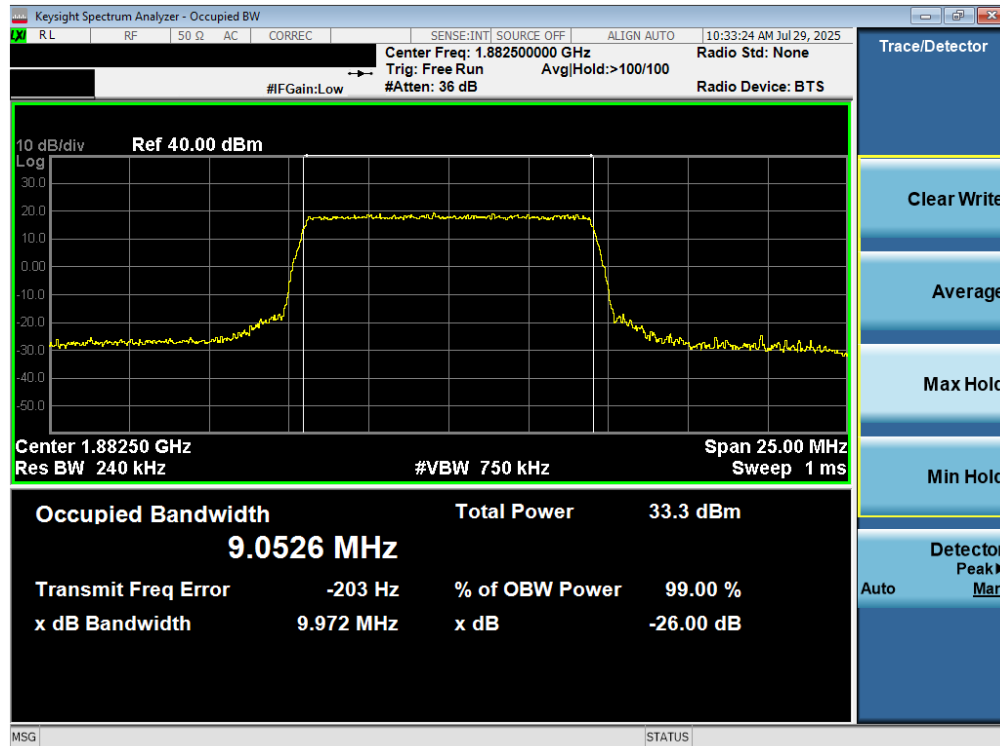


Plot 7-14. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

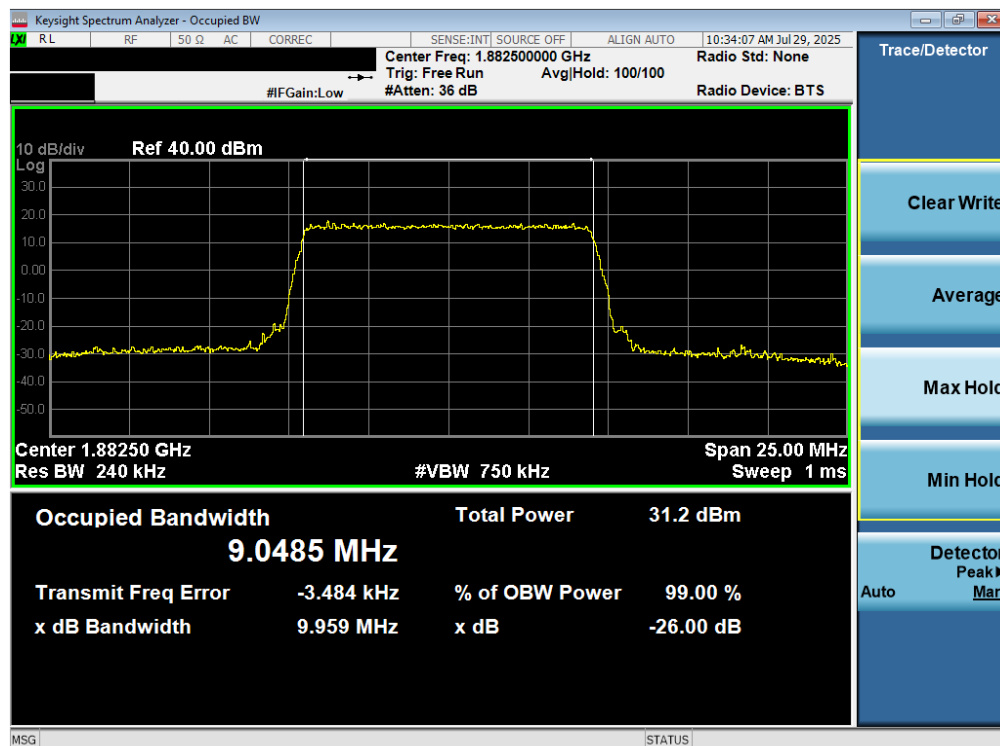
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device	Page 22 of 238

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Plot 7-15. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB Configuration)

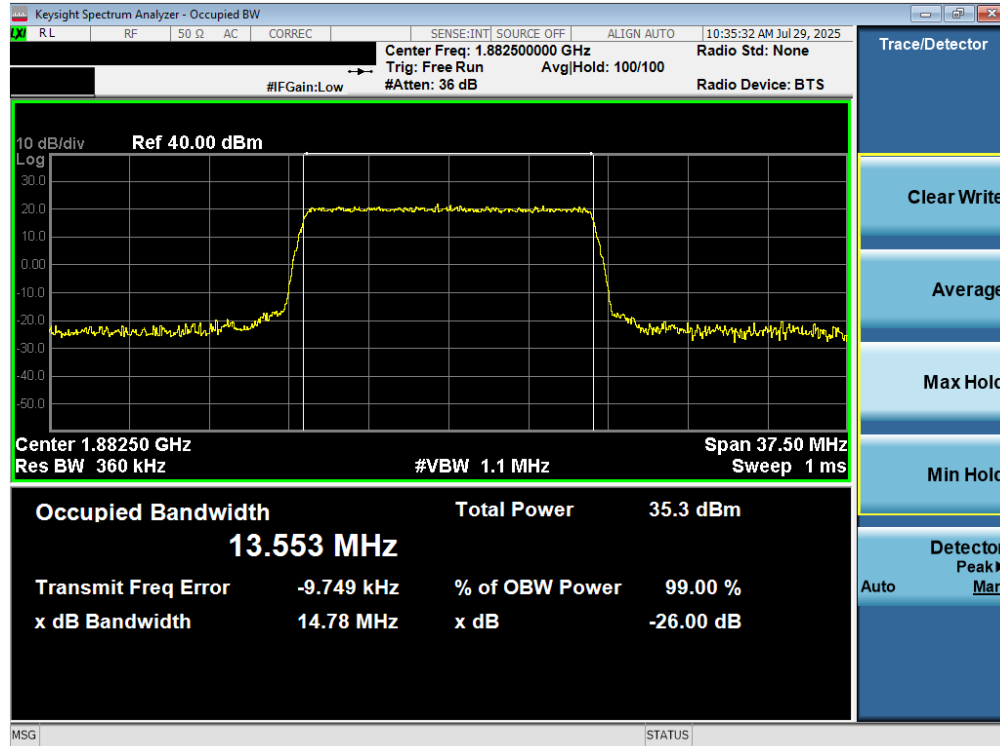


Plot 7-16. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB Configuration)

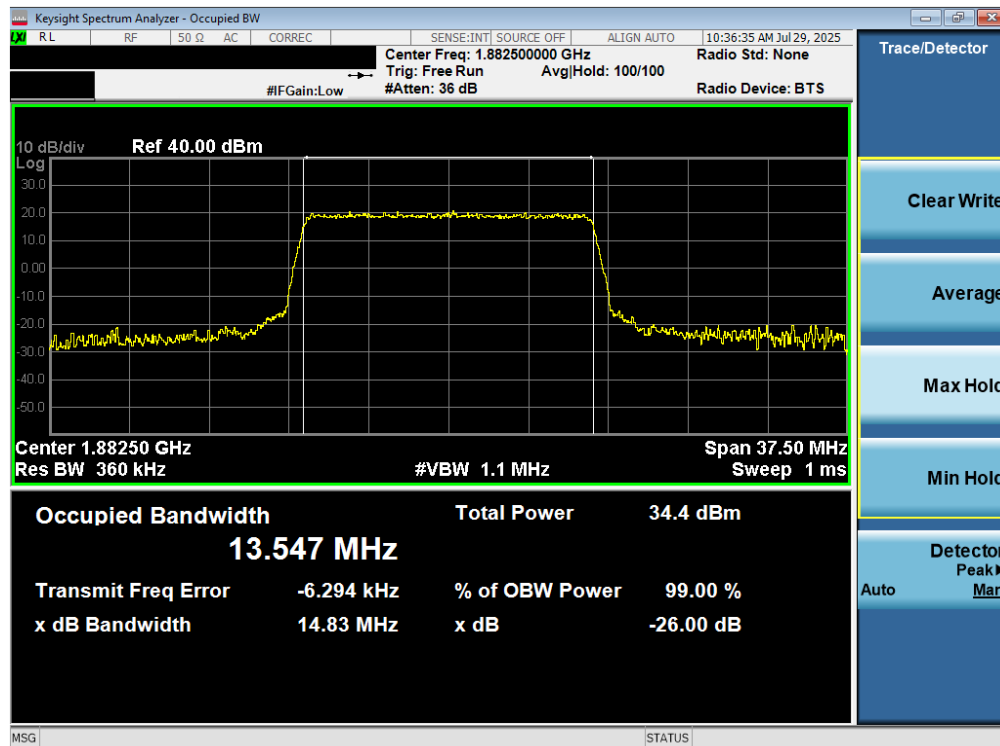
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device	Page 23 of 238

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Plot 7-17. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

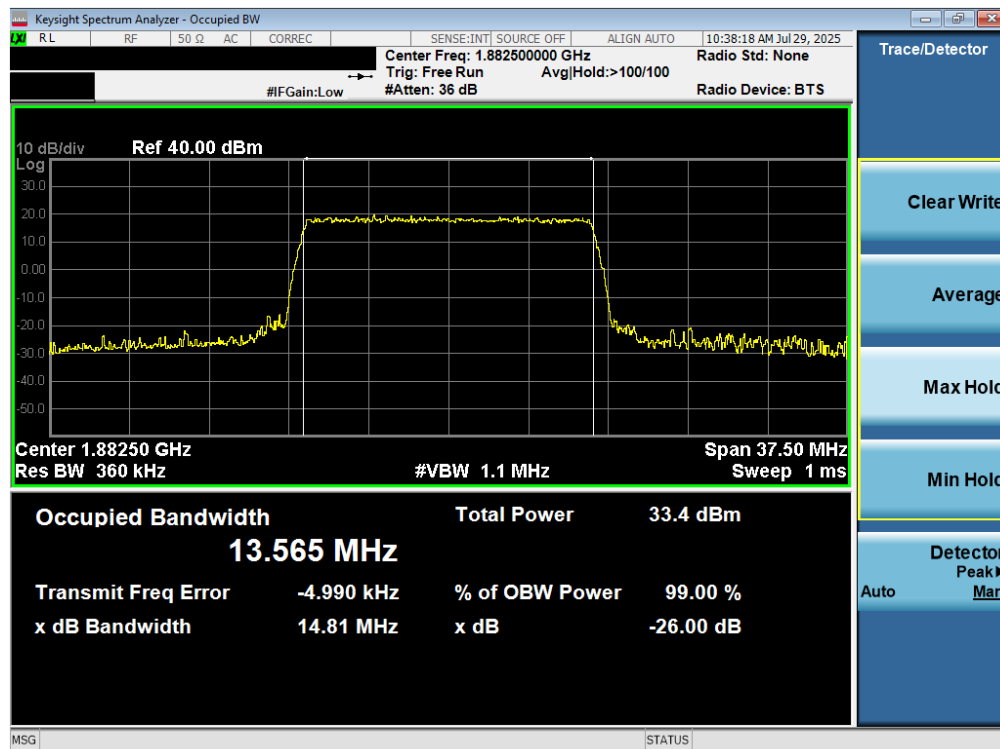


Plot 7-18. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)

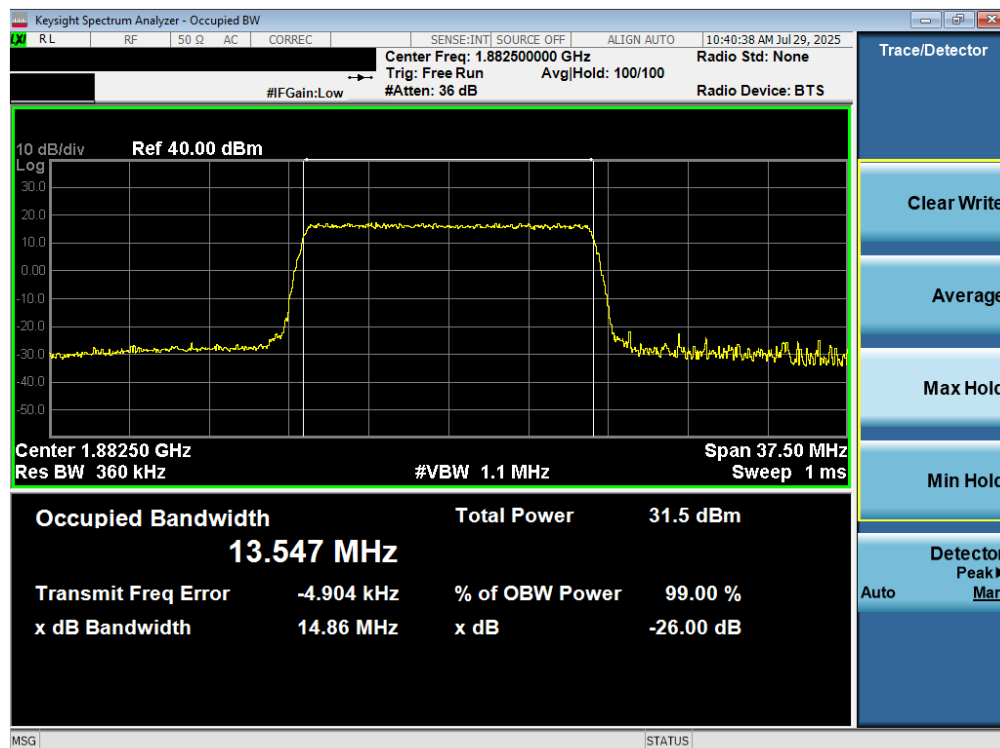
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device	Page 24 of 238

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Plot 7-19. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB Configuration)

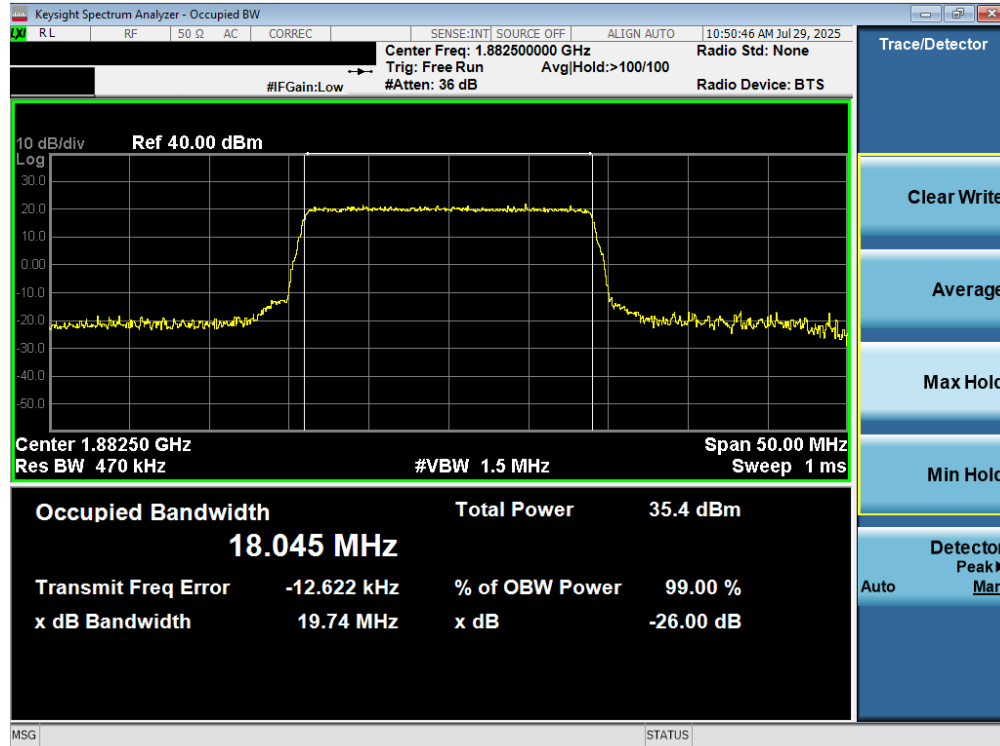


Plot 7-20. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB Configuration)

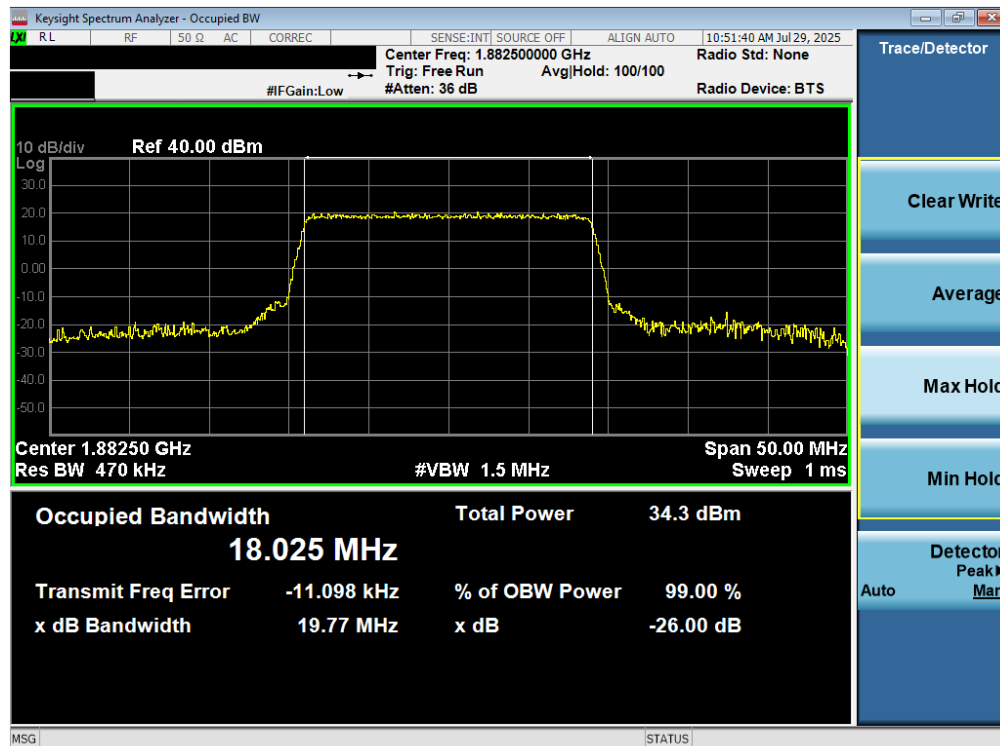
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-21. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)

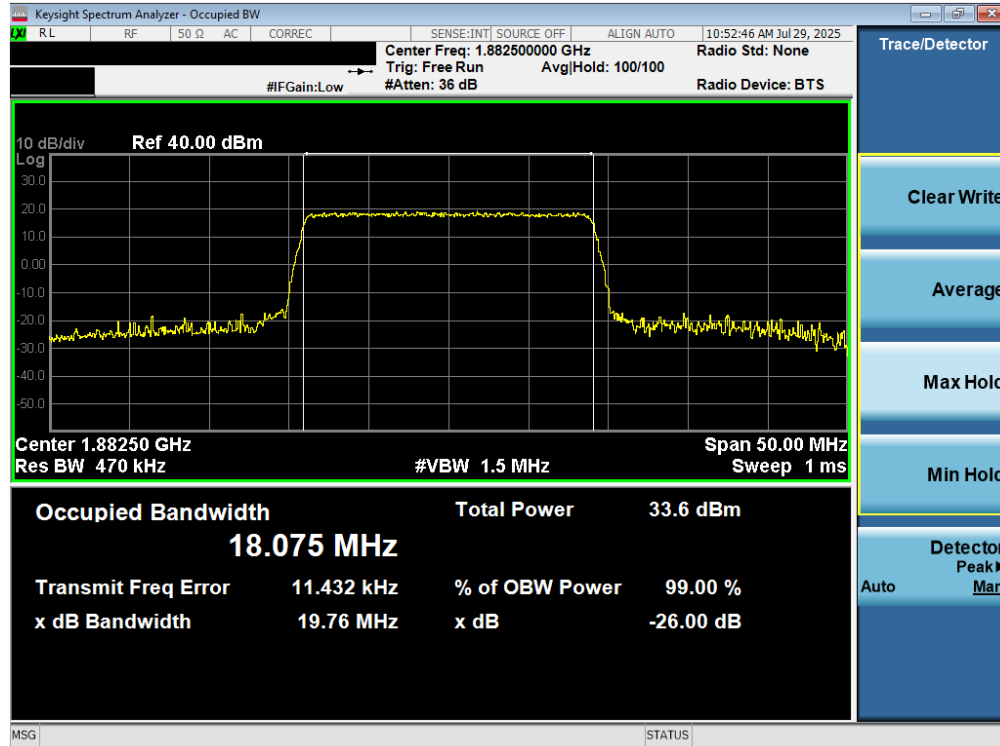


Plot 7-22. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

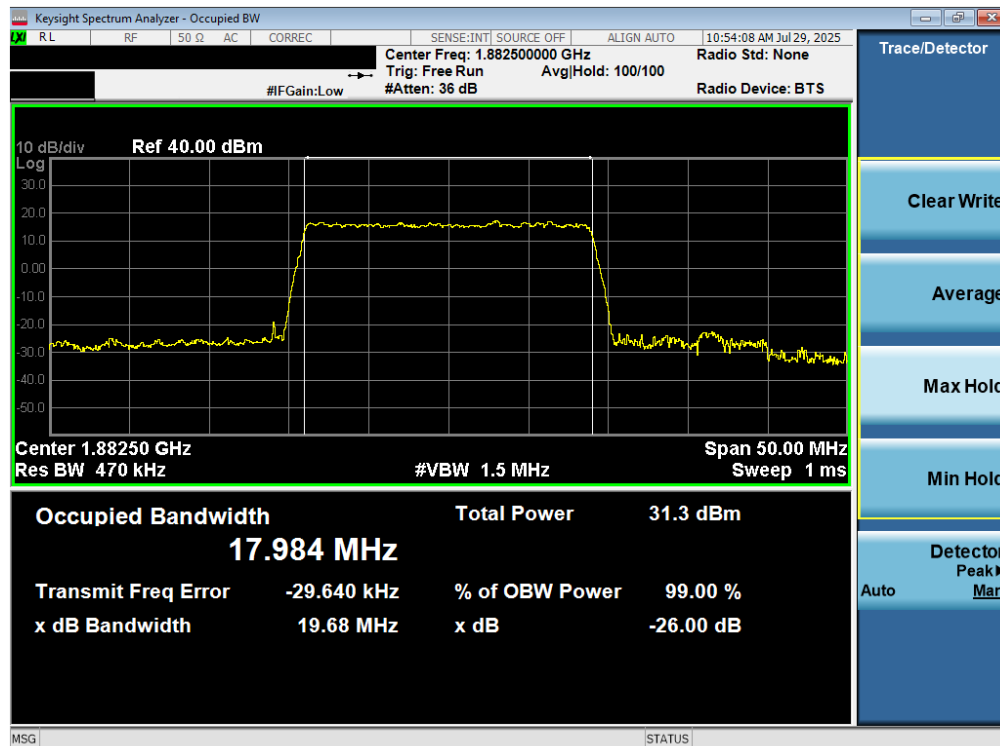
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device	Page 26 of 238

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Plot 7-23. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB Configuration)



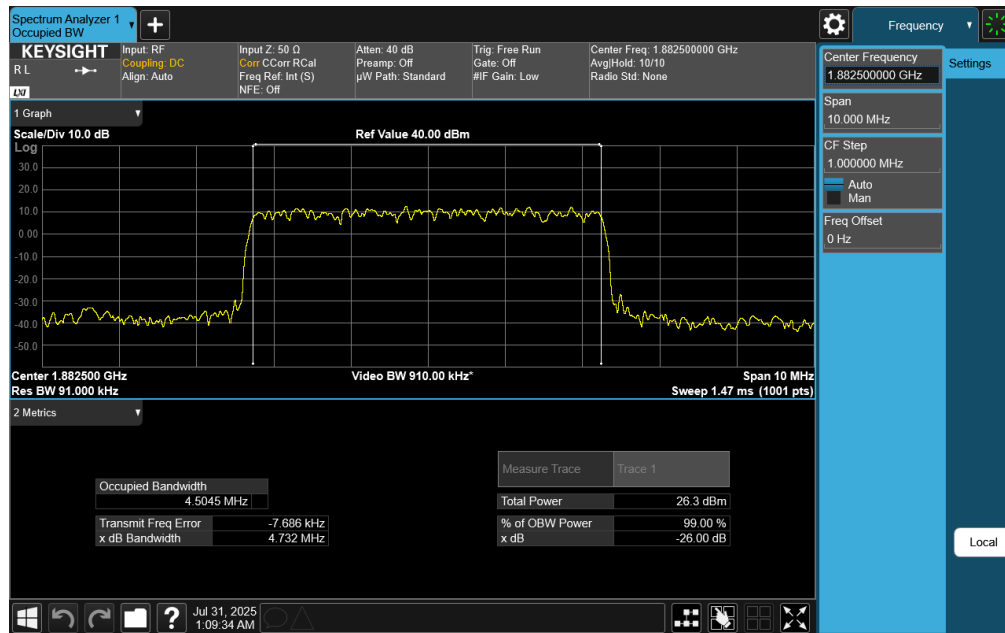
Plot 7-24. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device
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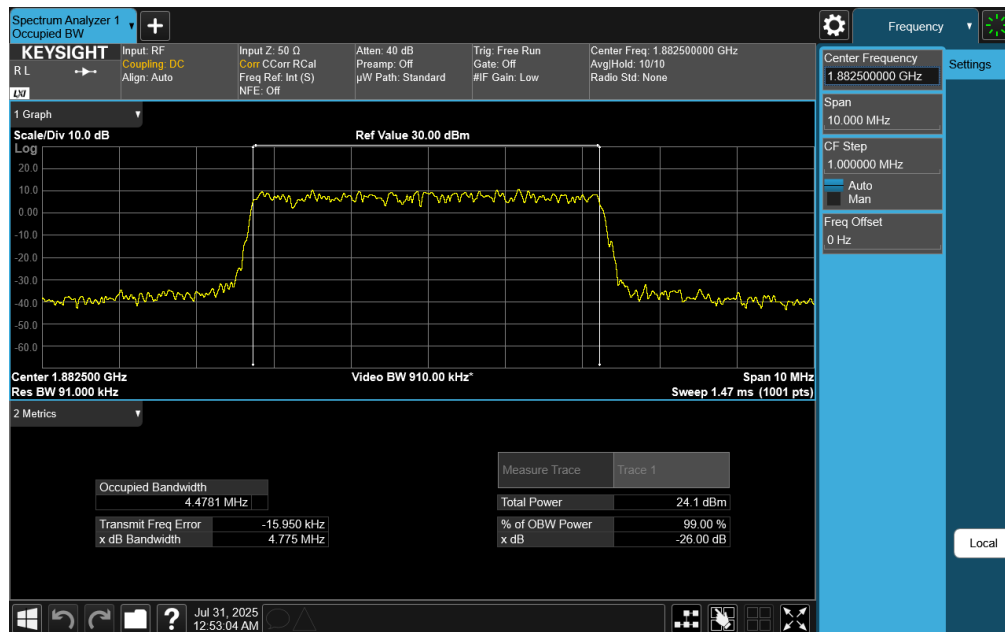
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NR Band n25/n2



Plot 7-25. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

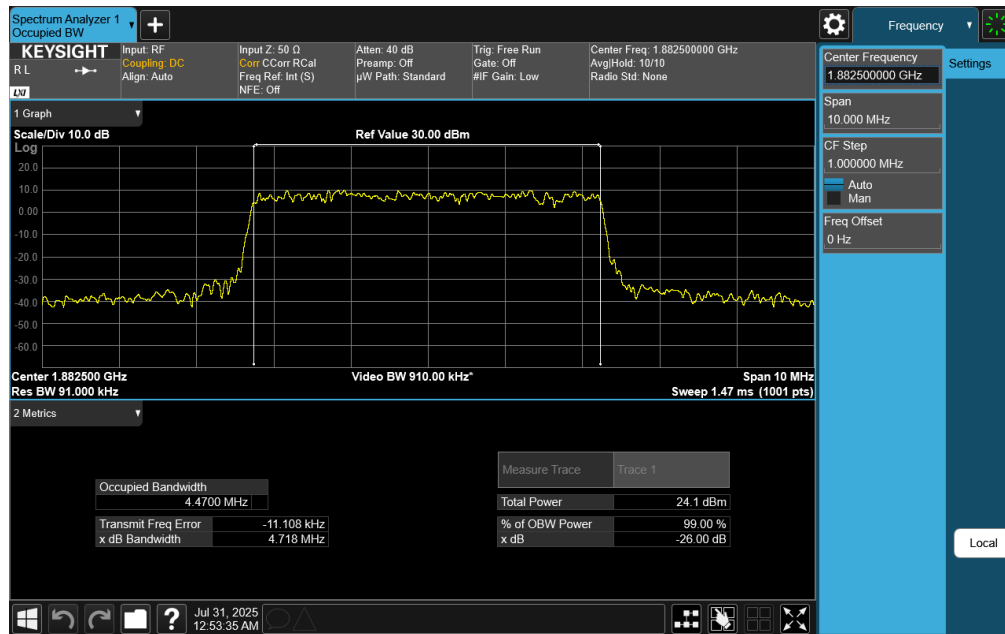


Plot 7-26. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz CP-OFDM QPSK - Full RB)

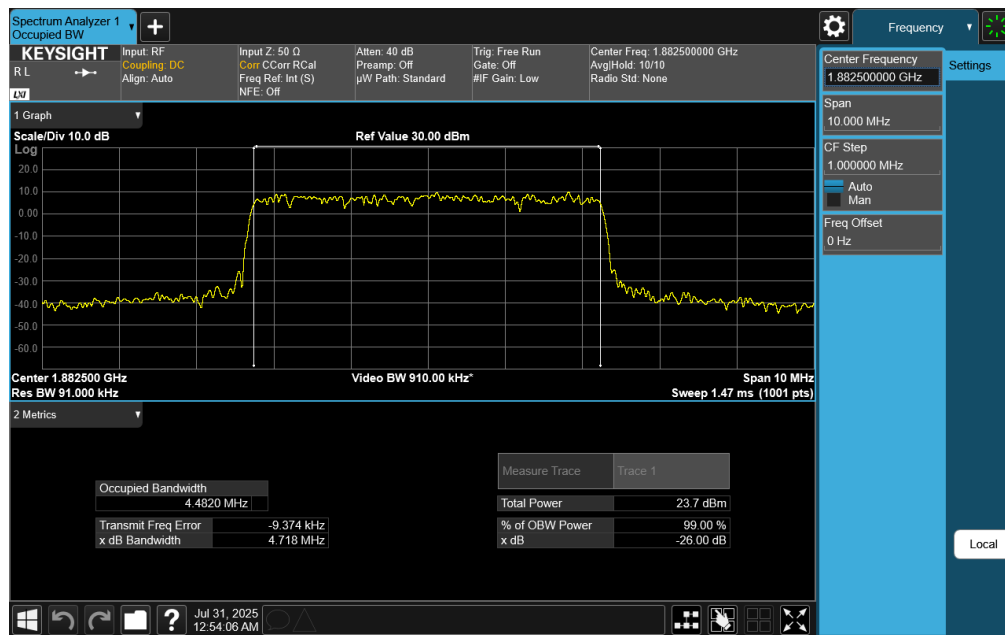
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device	Page 28 of 238

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Plot 7-27. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz CP-OFDM 16QAM - Full RB)

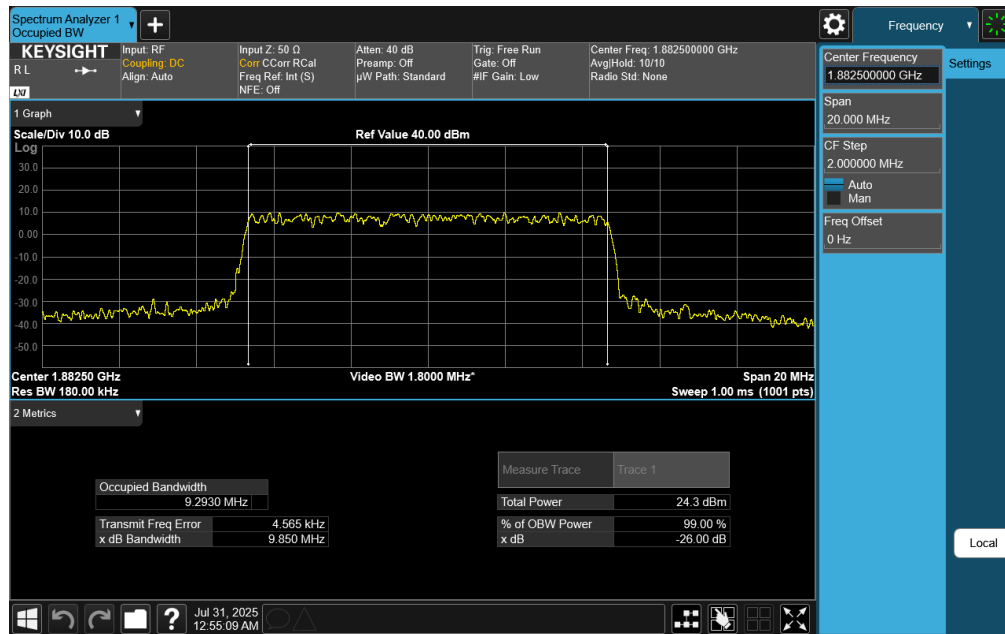


Plot 7-28. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz CP-OFDM 64QAM - Full RB)

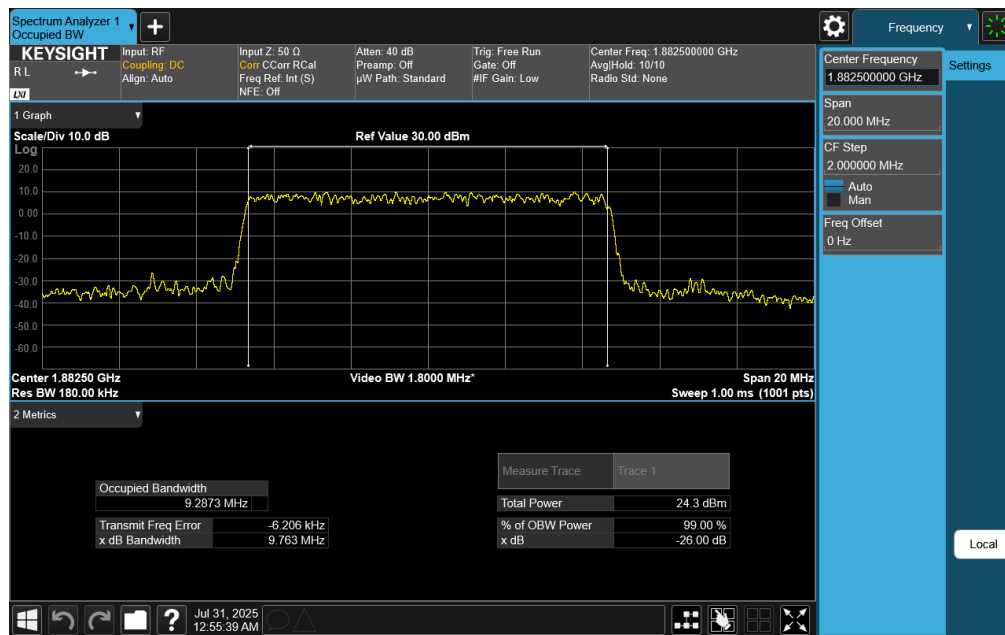
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-31. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM QPSK - Full RB)

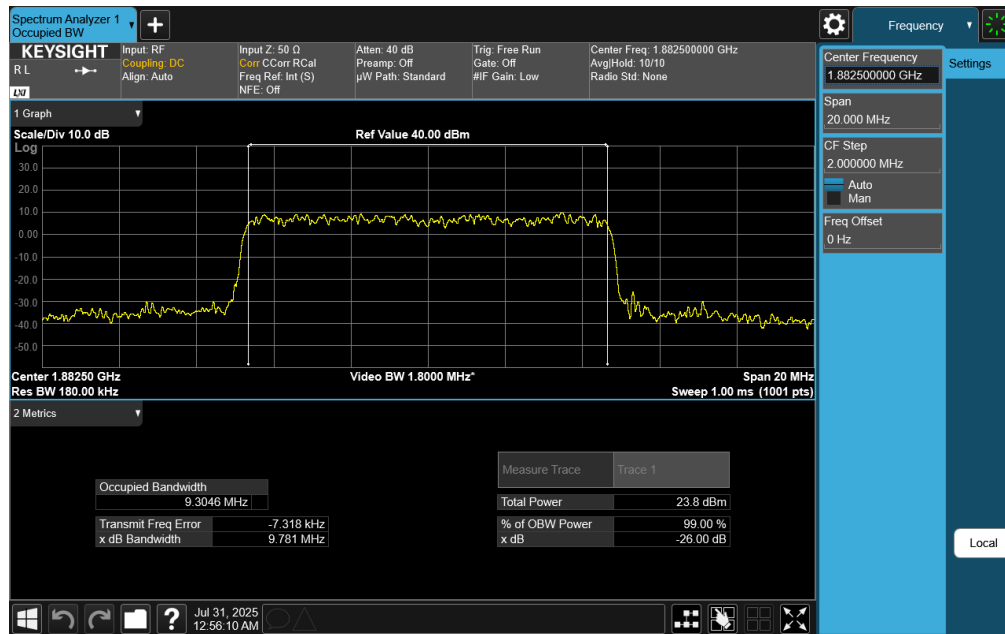


Plot 7-32. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 16QAM - Full RB)

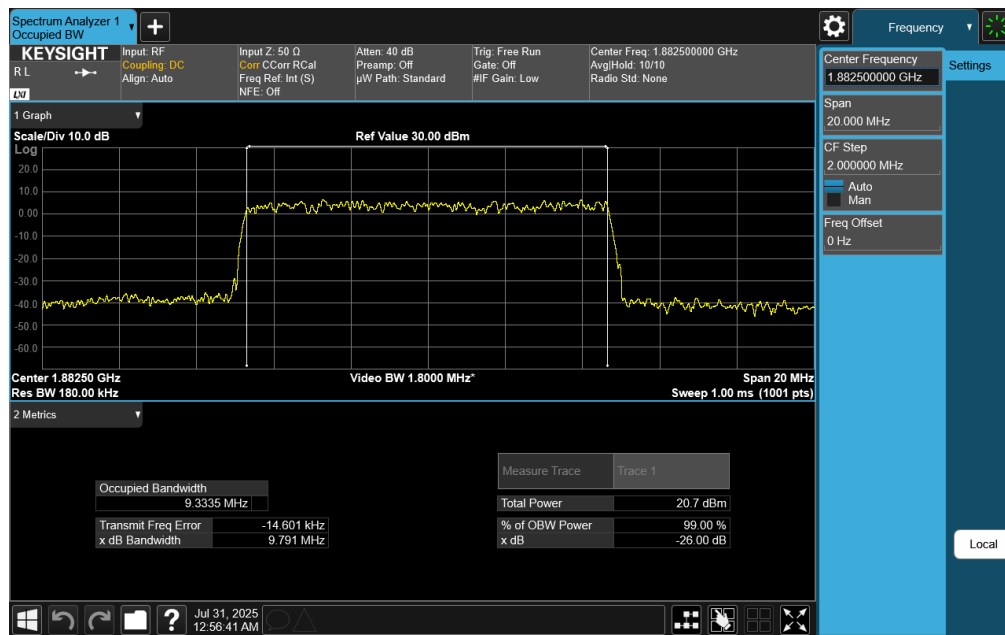
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device
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Plot 7-33. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 64QAM - Full RB)

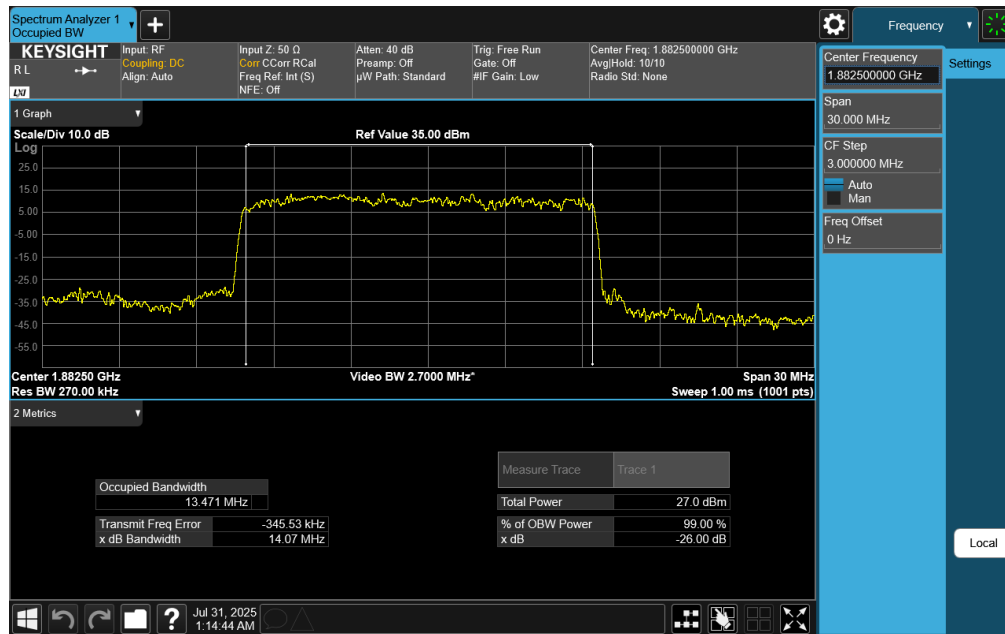


Plot 7-34. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 256QAM - Full RB)

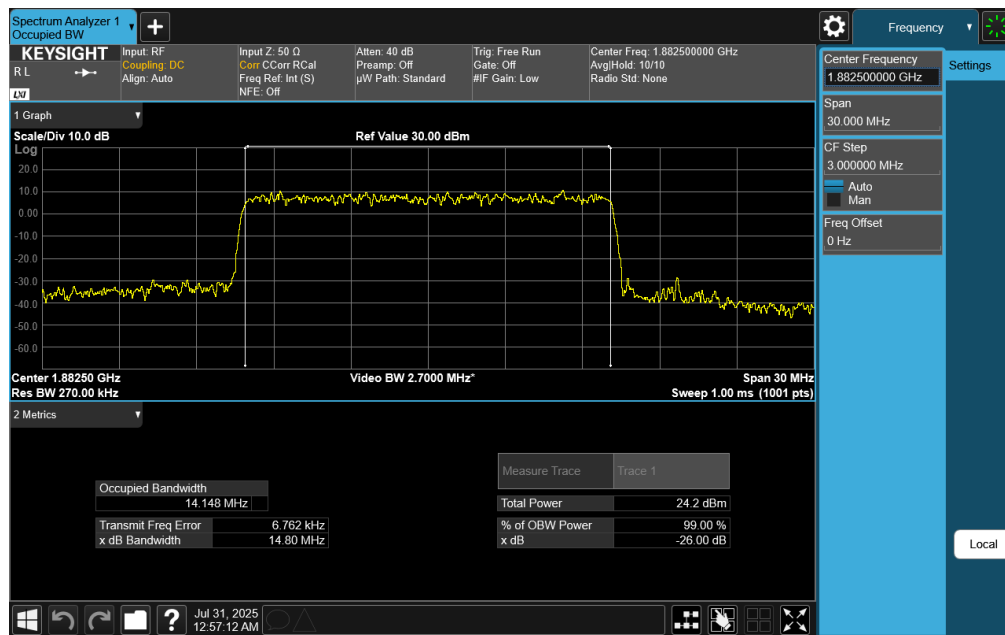
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-35. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

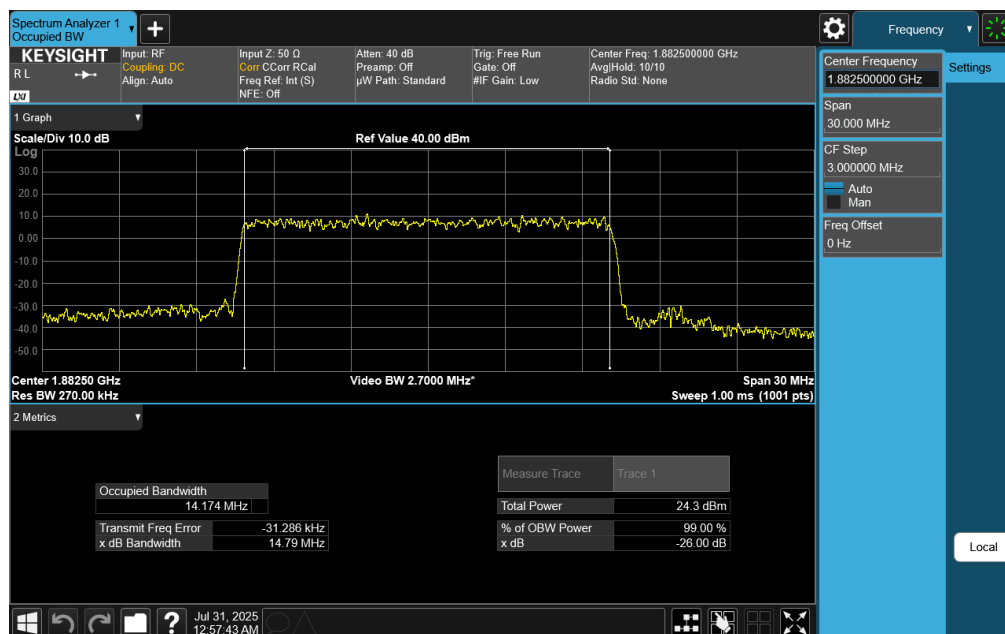


Plot 7-36. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM QPSK - Full RB)

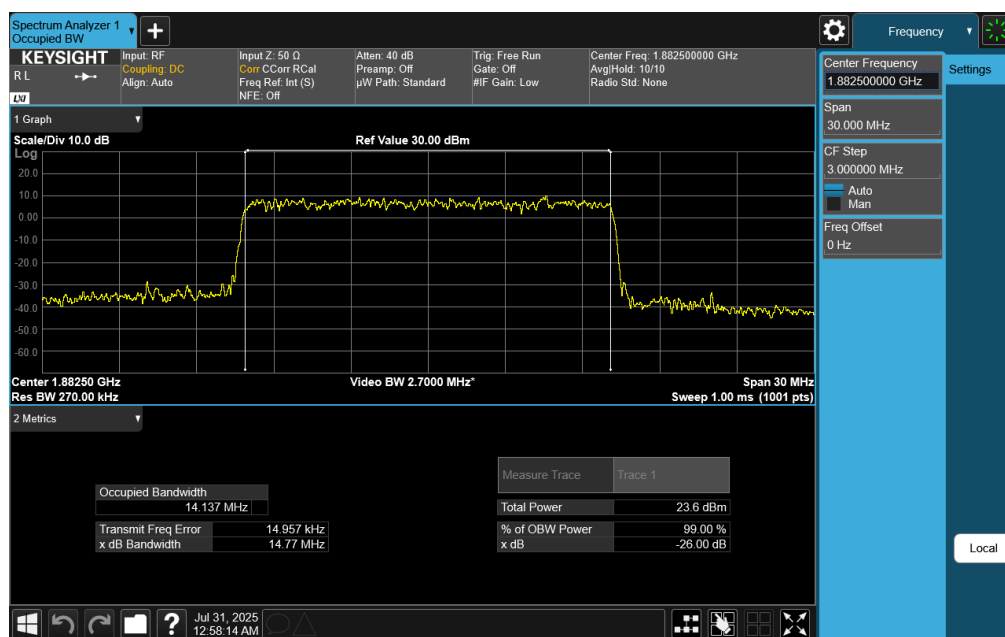
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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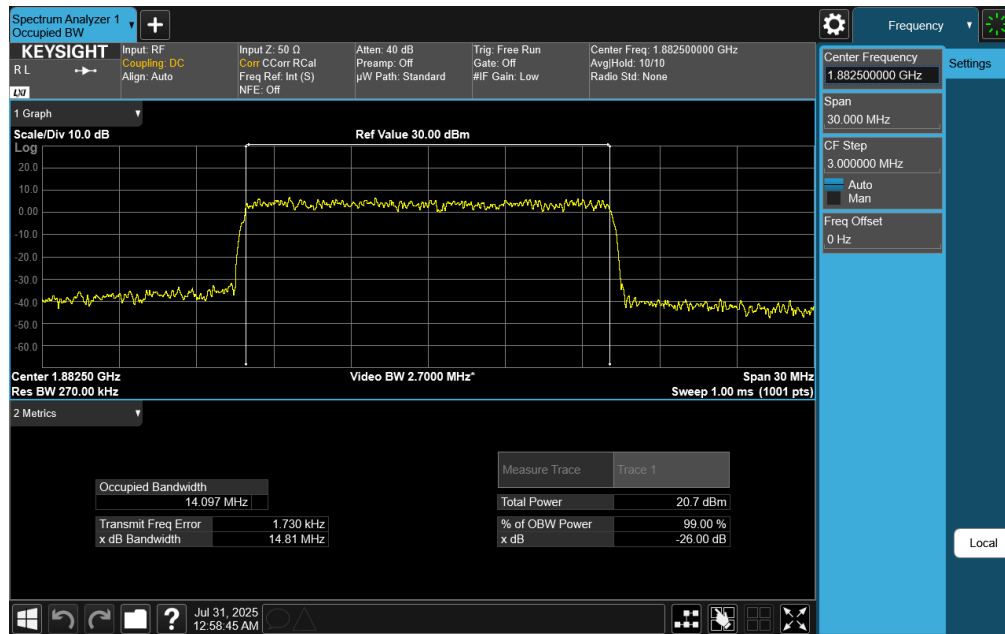


Plot 7-37. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 16QAM - Full RB)

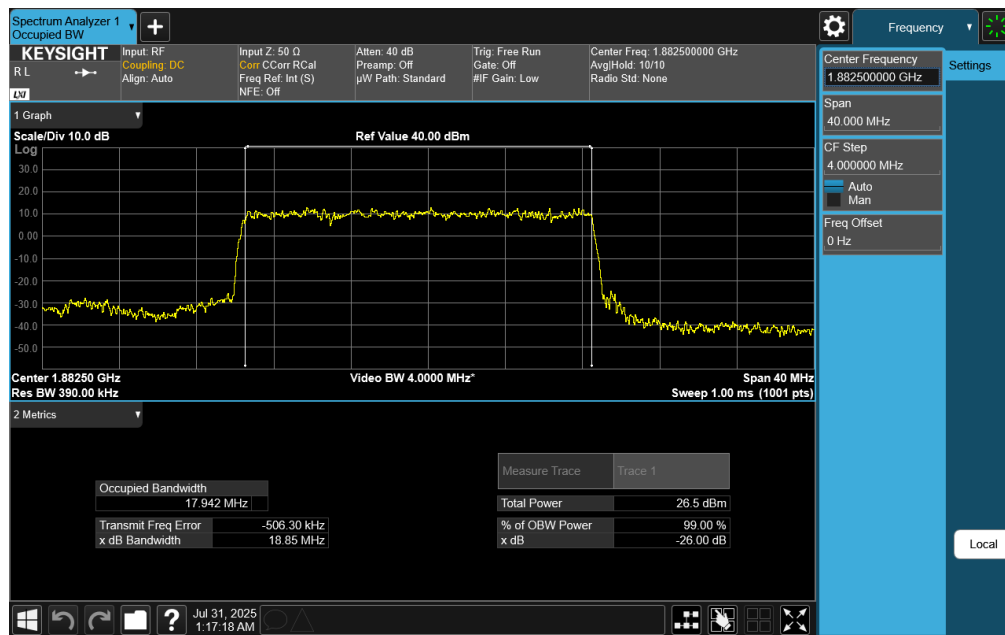


Plot 7-38. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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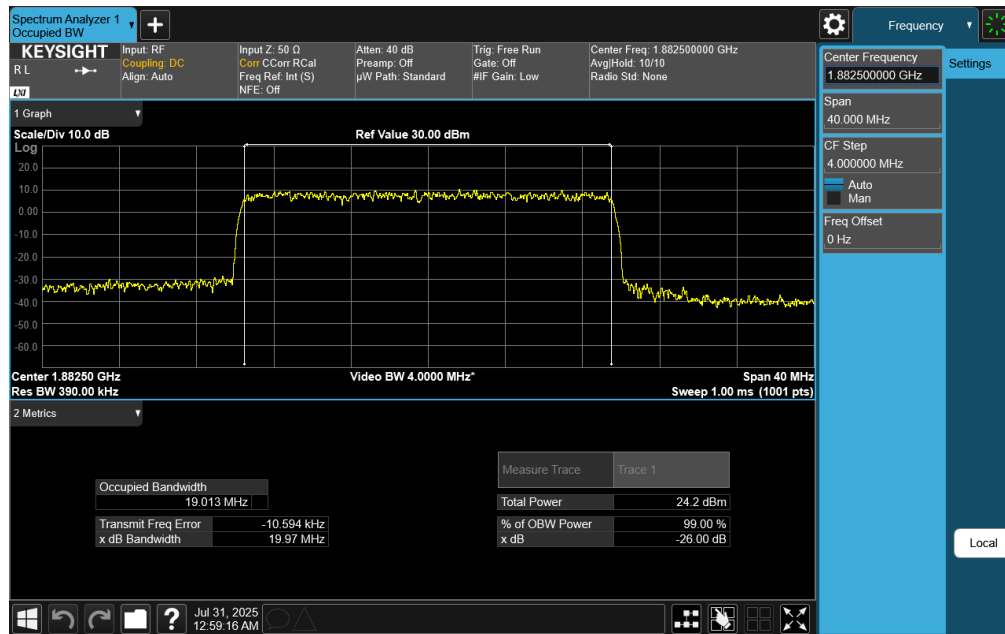


Plot 7-39. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 256QAM - Full RB)

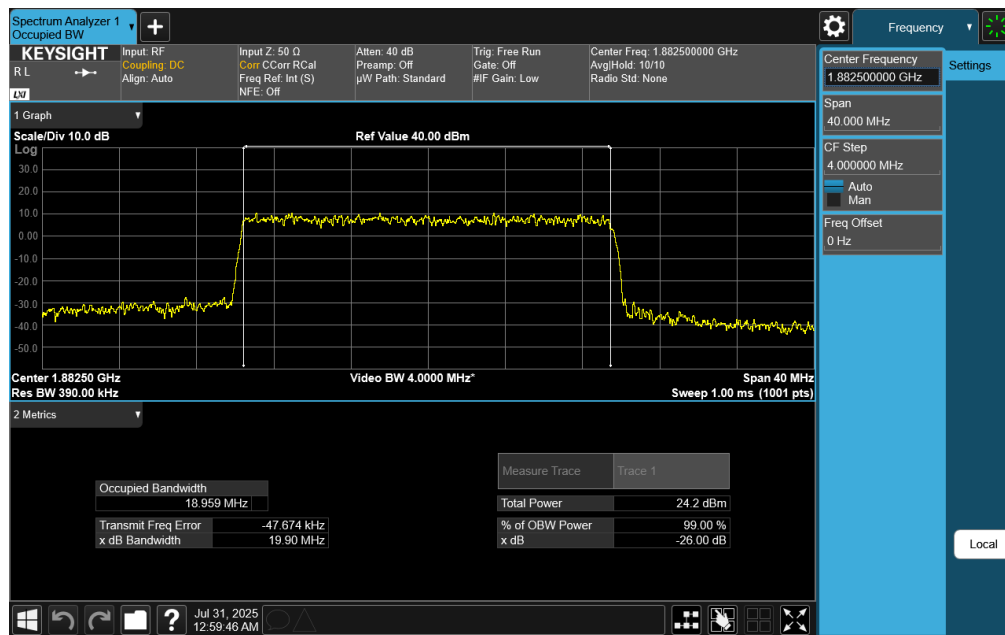


Plot 7-40. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-41. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM QPSK - Full RB)

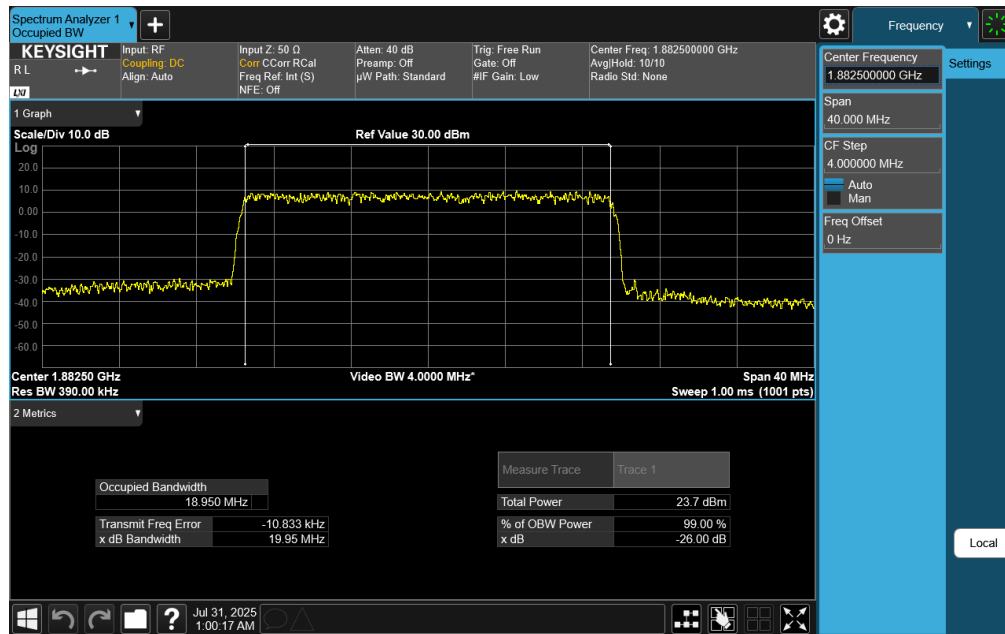


Plot 7-42. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 16QAM - Full RB)

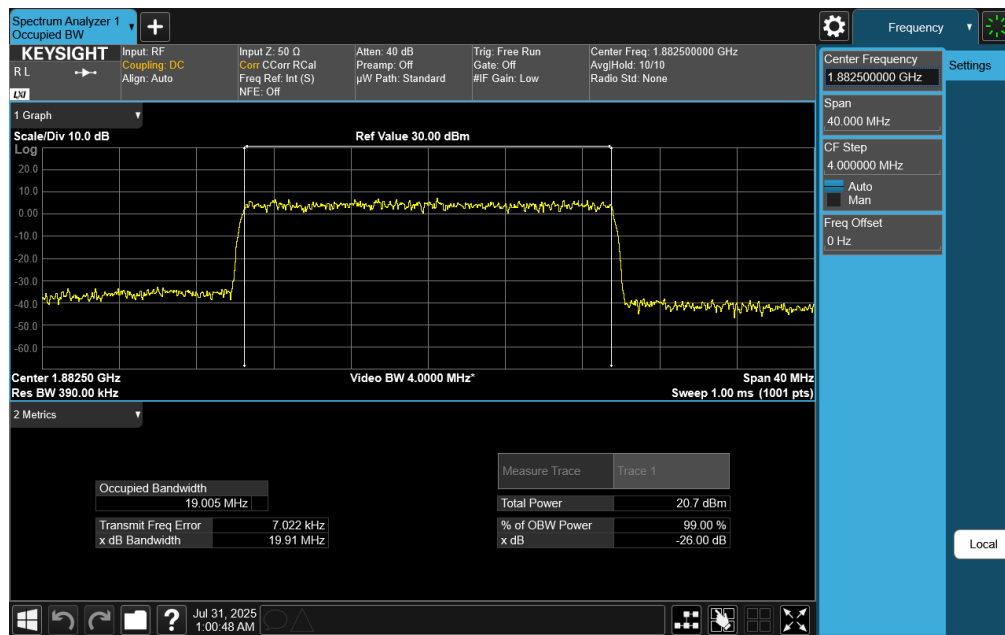
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-43. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 64QAM - Full RB)

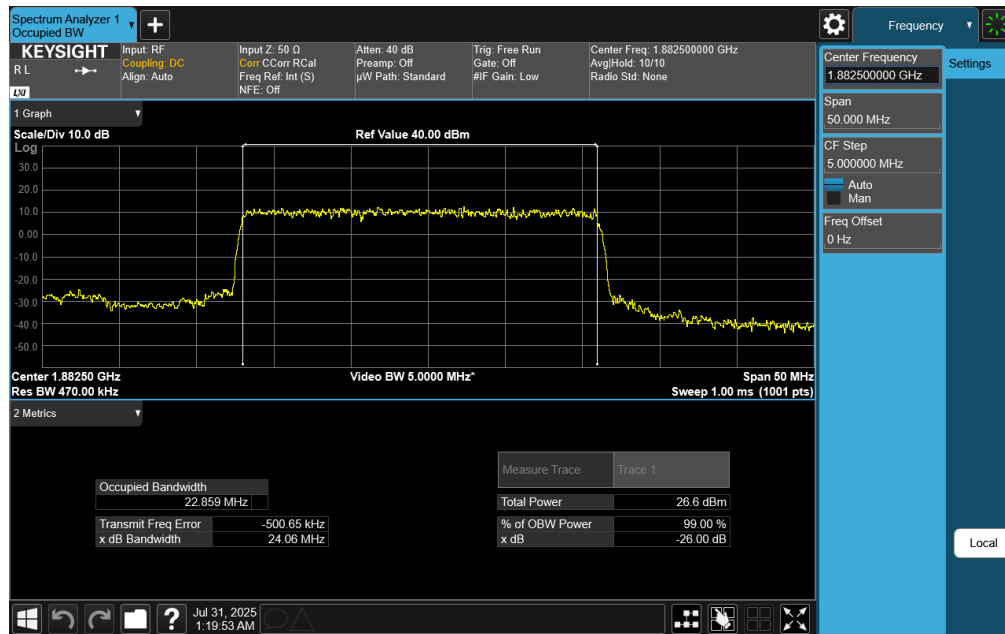


Plot 7-44. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 256QAM - Full RB)

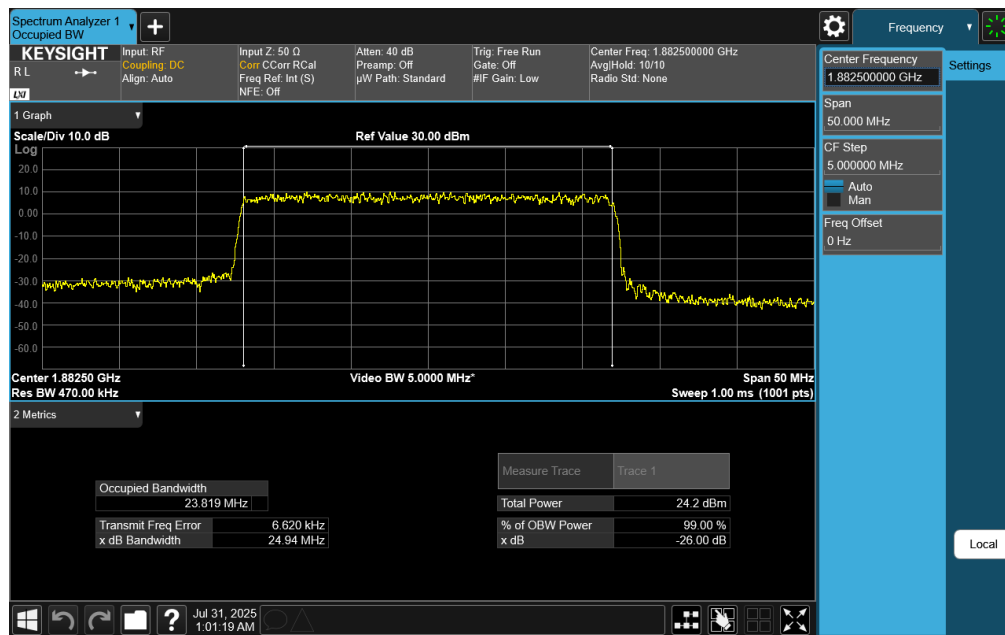
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-45. Occupied Bandwidth Plot (NR Band n25/n2 - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

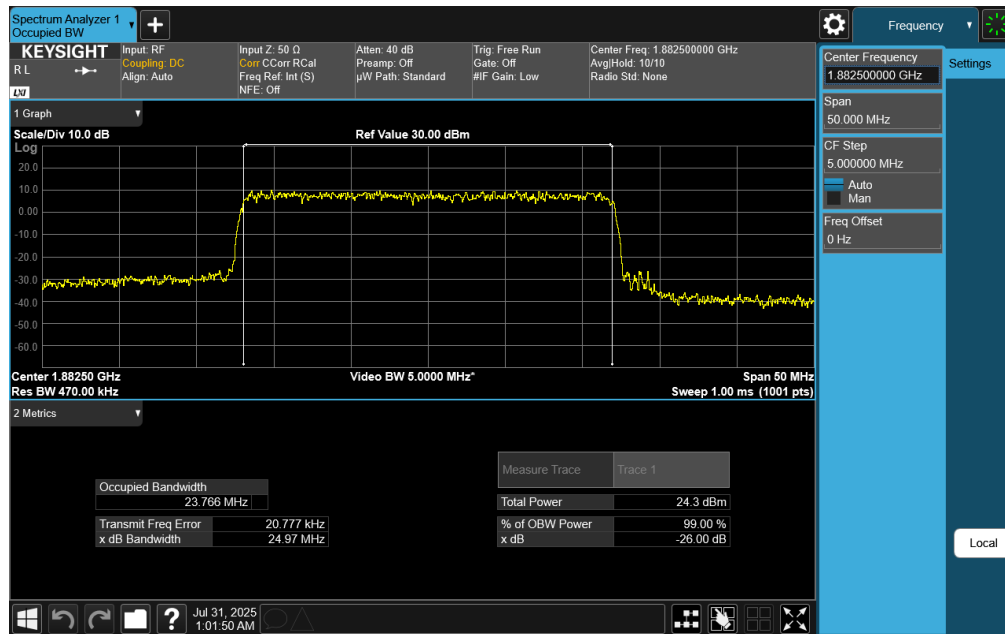


Plot 7-46. Occupied Bandwidth Plot (NR Band n25/n2 - 25MHz CP-OFDM QPSK - Full RB)

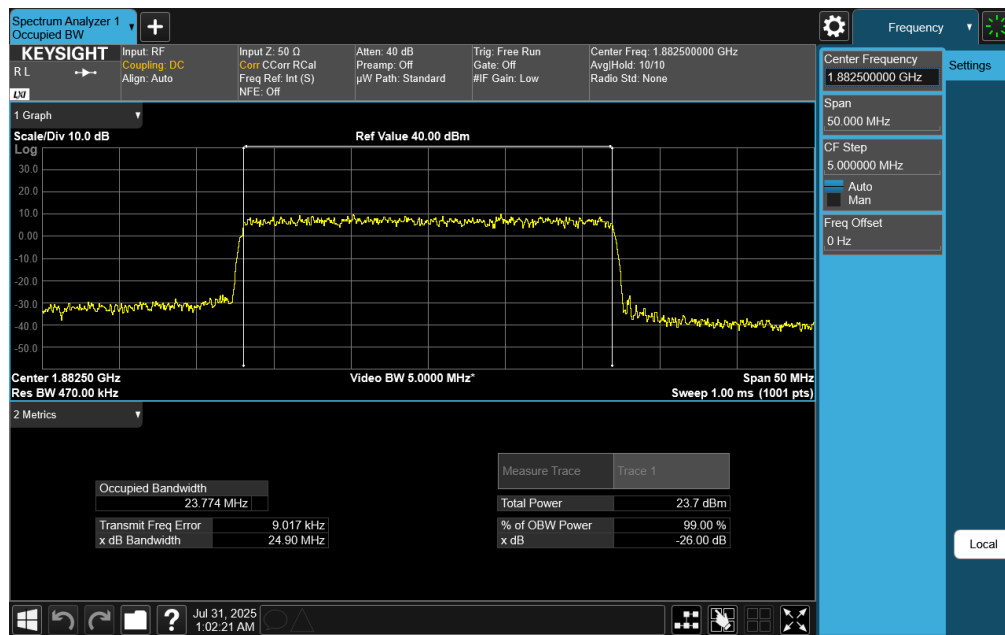
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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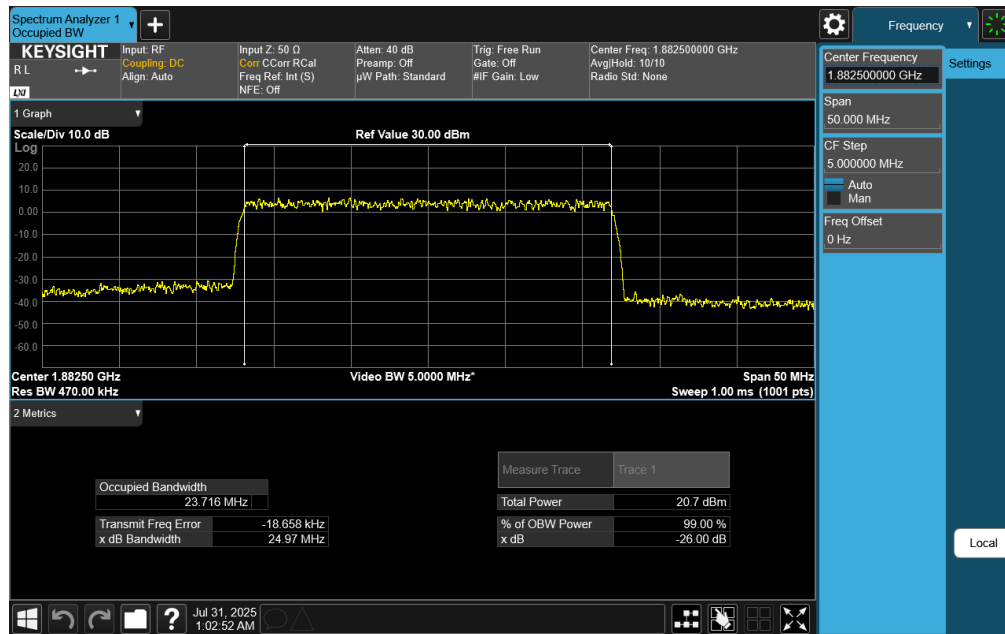


Plot 7-47. Occupied Bandwidth Plot (NR Band n25/n2 - 25MHz CP-OFDM 16QAM - Full RB)

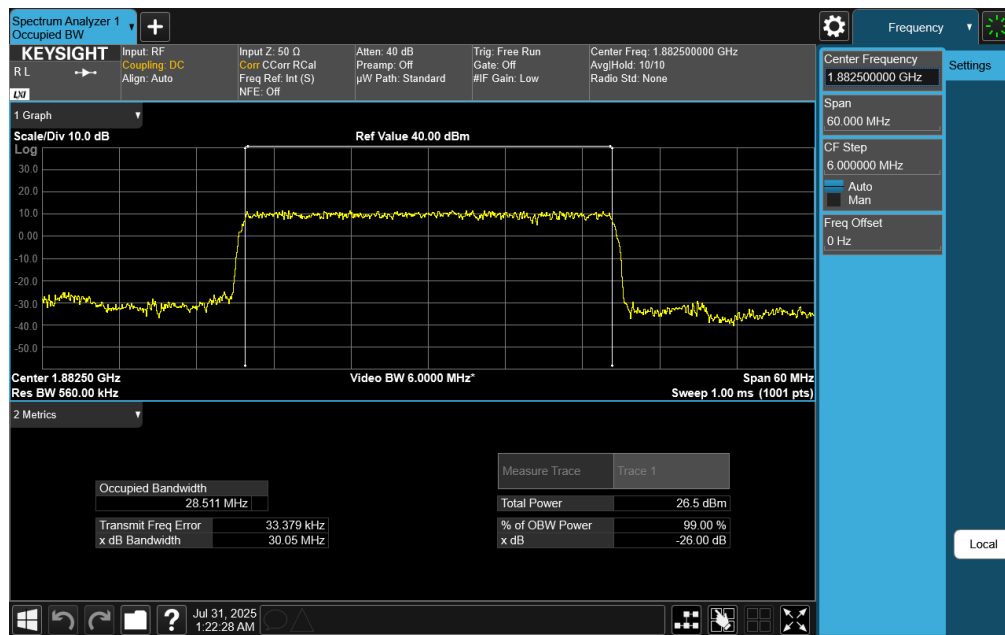


Plot 7-48. Occupied Bandwidth Plot (NR Band n25/n2 - 25MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-49. Occupied Bandwidth Plot (NR Band n25/n2 - 25MHz CP-OFDM 256QAM - Full RB)

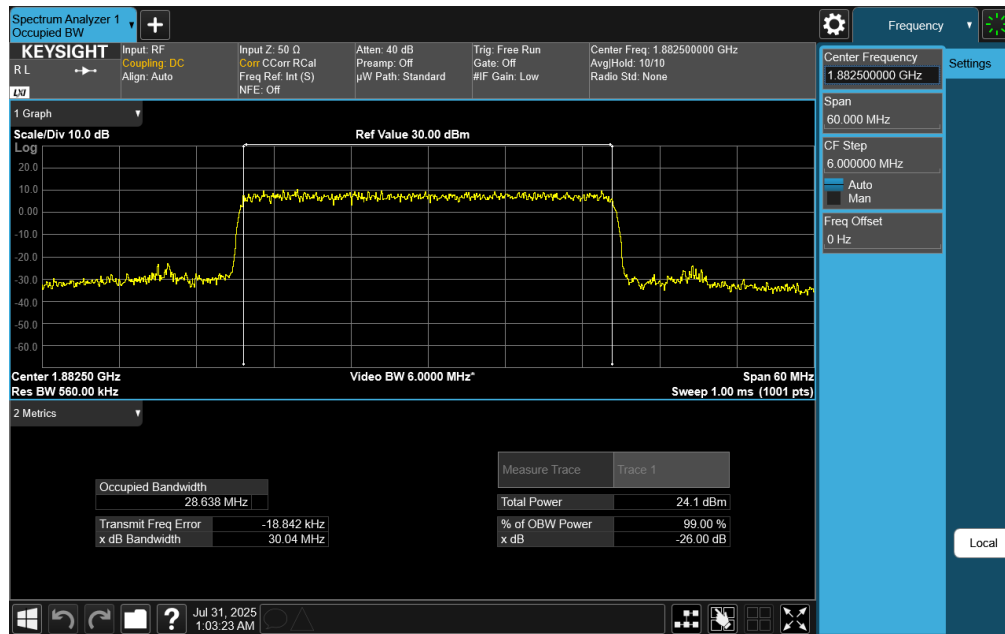


Plot 7-50. Occupied Bandwidth Plot (NR Band n25/n2 - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

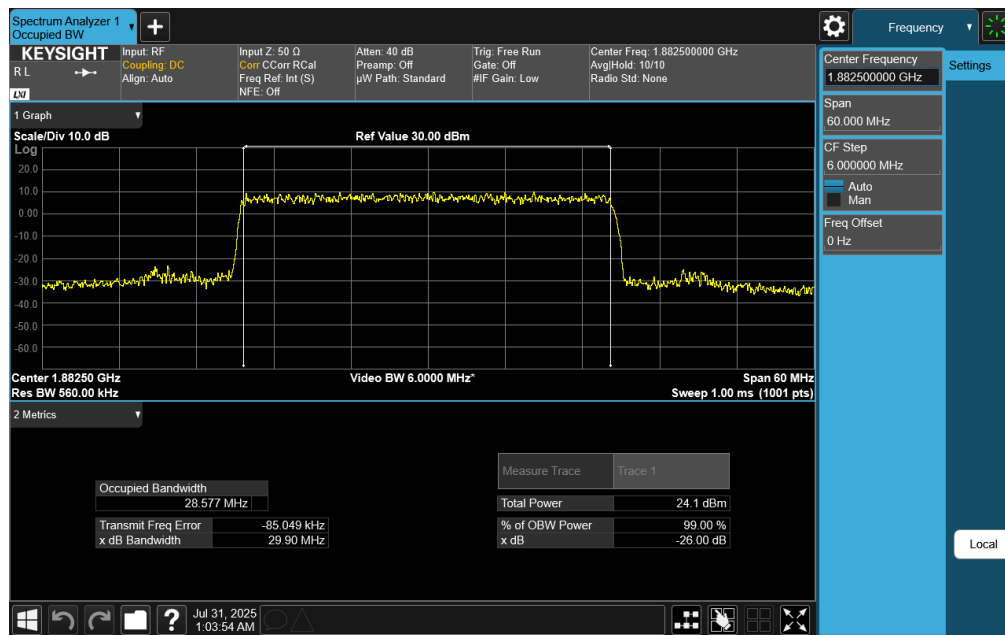
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-51. Occupied Bandwidth Plot (NR Band n25/n2 - 30MHz CP-OFDM QPSK - Full RB)

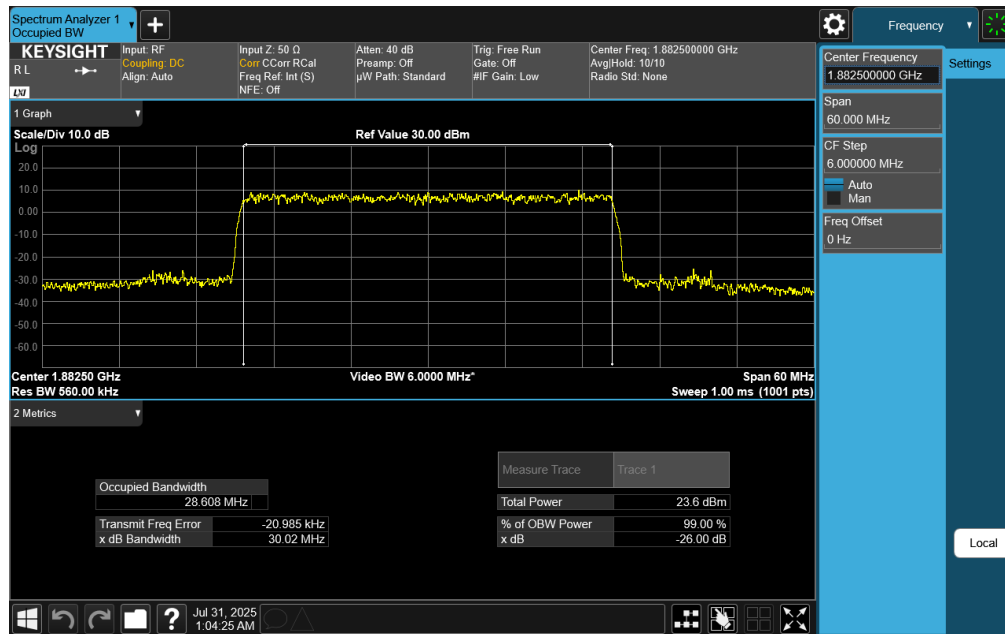


Plot 7-52. Occupied Bandwidth Plot (NR Band n25/n2 - 30MHz CP-OFDM 16QAM - Full RB)

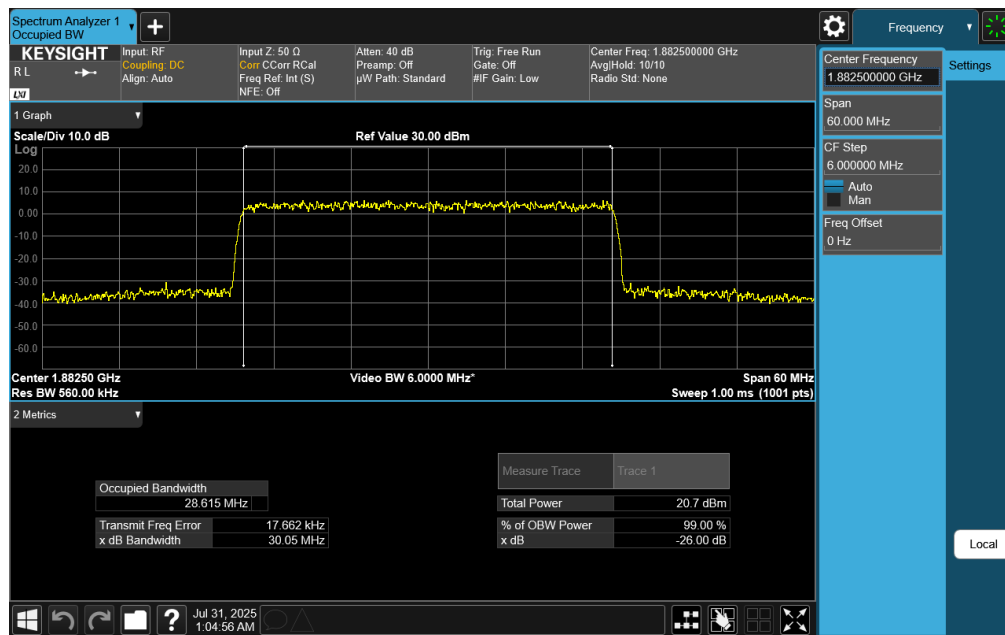
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device	Page 41 of 238

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Plot 7-53. Occupied Bandwidth Plot (NR Band n25/n2 - 30MHz CP-OFDM 64QAM - Full RB)

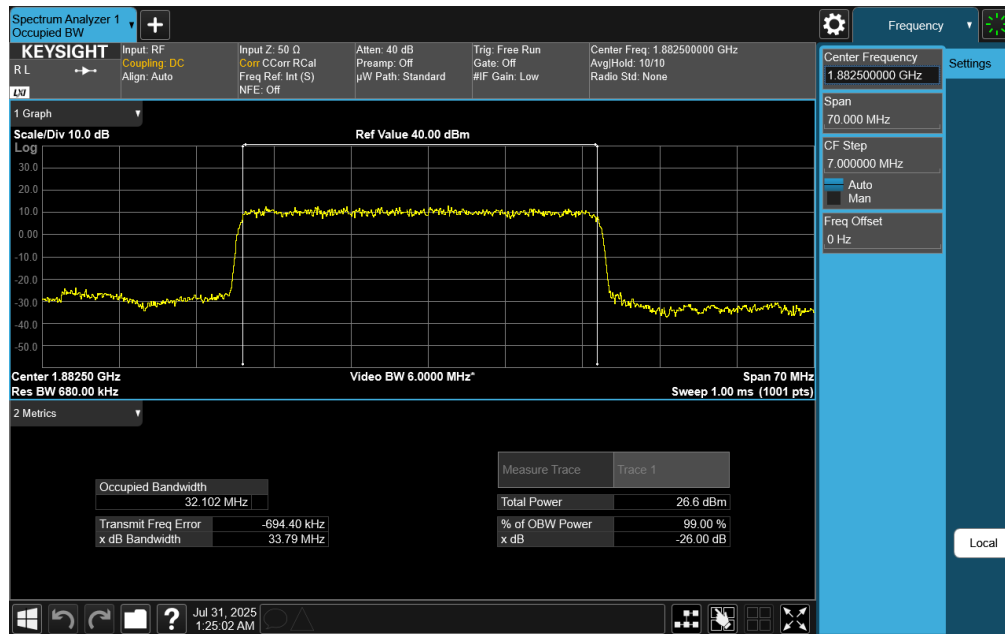


Plot 7-54. Occupied Bandwidth Plot (NR Band n25/n2 - 30MHz CP-OFDM 256QAM - Full RB)

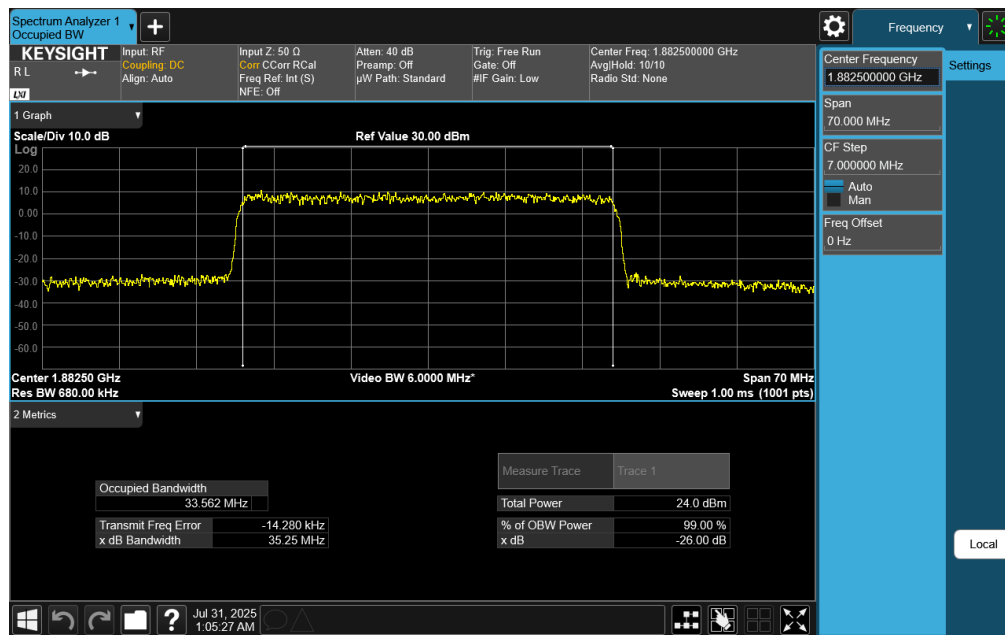
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device	Page 42 of 238

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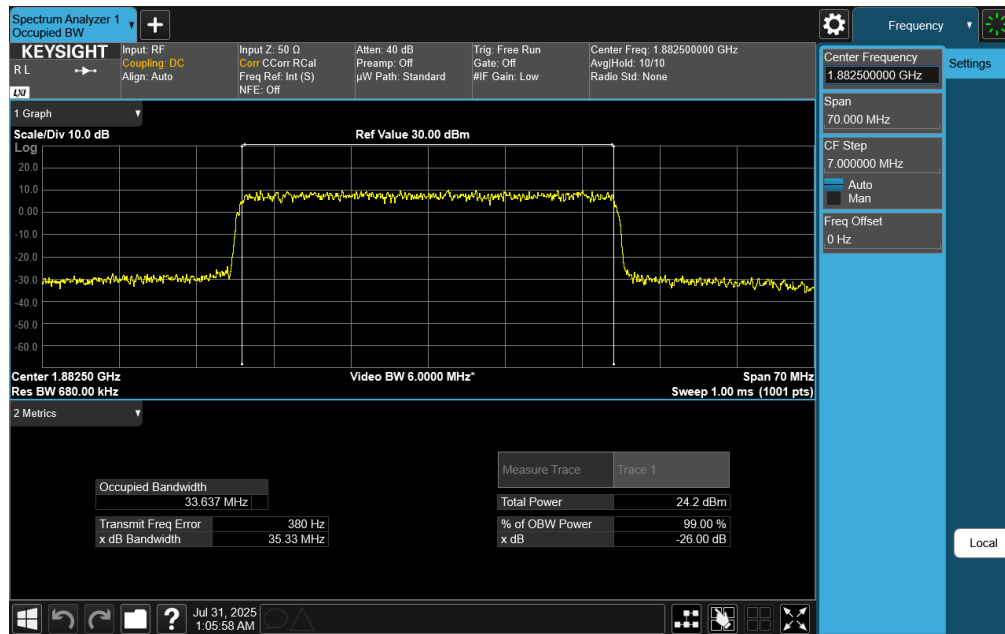


Plot 7-55. Occupied Bandwidth Plot (NR Band n25/n2 - 35MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

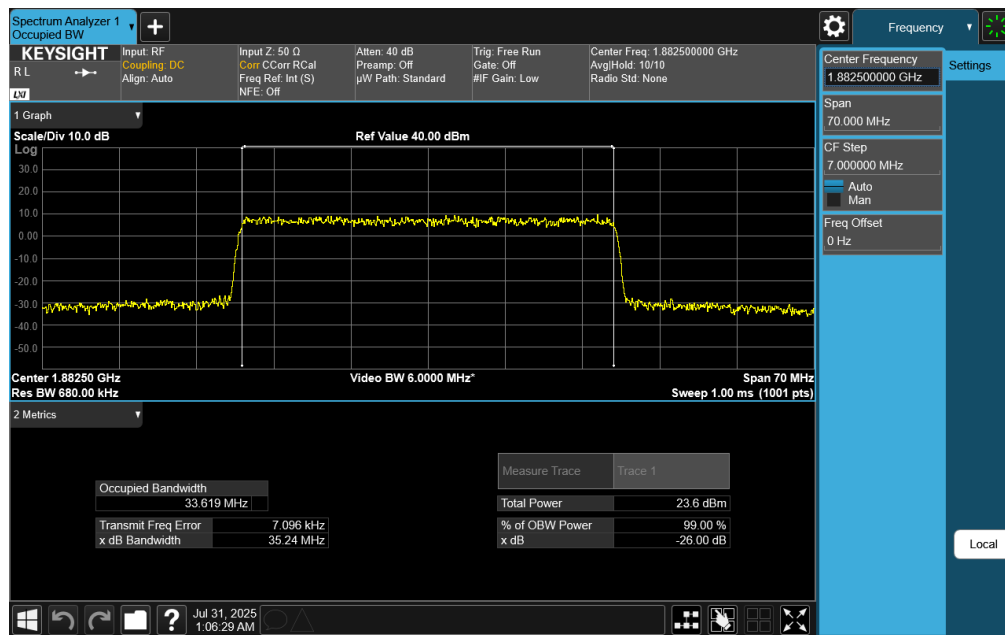


Plot 7-56. Occupied Bandwidth Plot (NR Band n25/n2 - 35MHz CP-OFDM QPSK - Full RB)

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Plot 7-57. Occupied Bandwidth Plot (NR Band n25/n2 - 35MHz CP-OFDM 16QAM - Full RB)

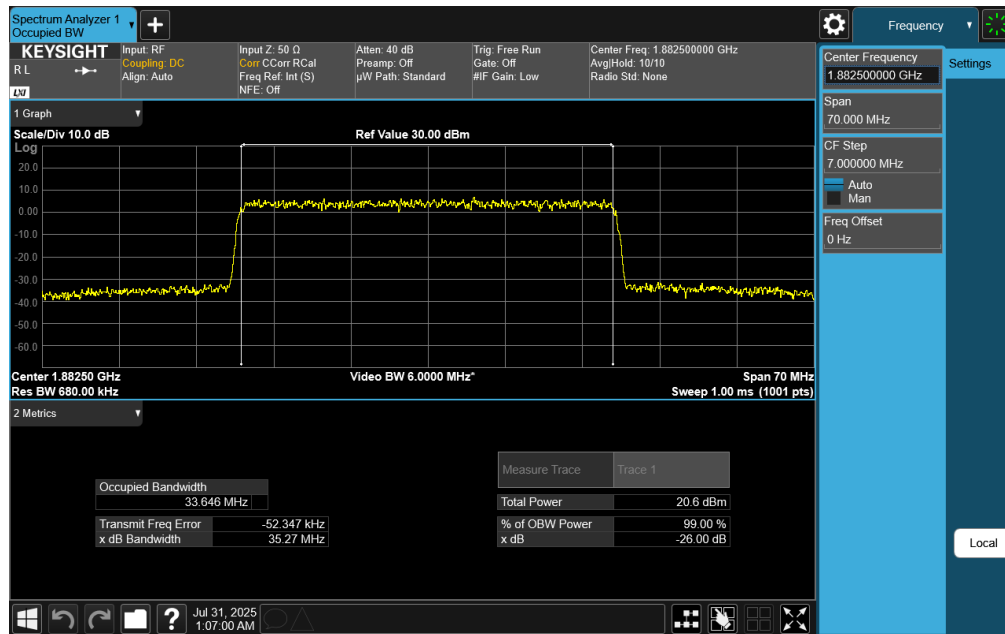


Plot 7-58. Occupied Bandwidth Plot (NR Band n25/n2 - 35MHz CP-OFDM 64QAM - Full RB)

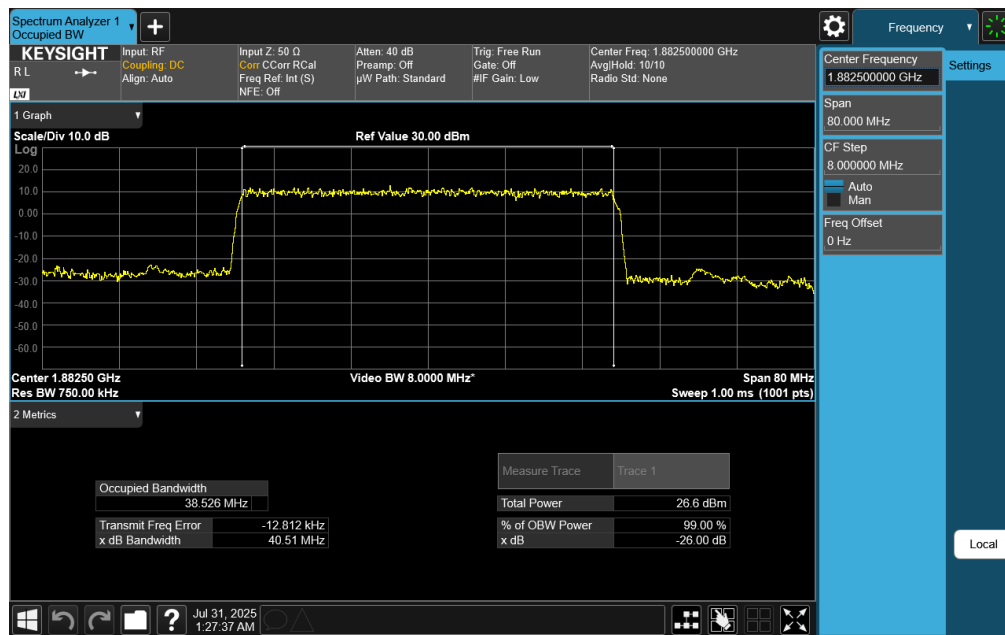
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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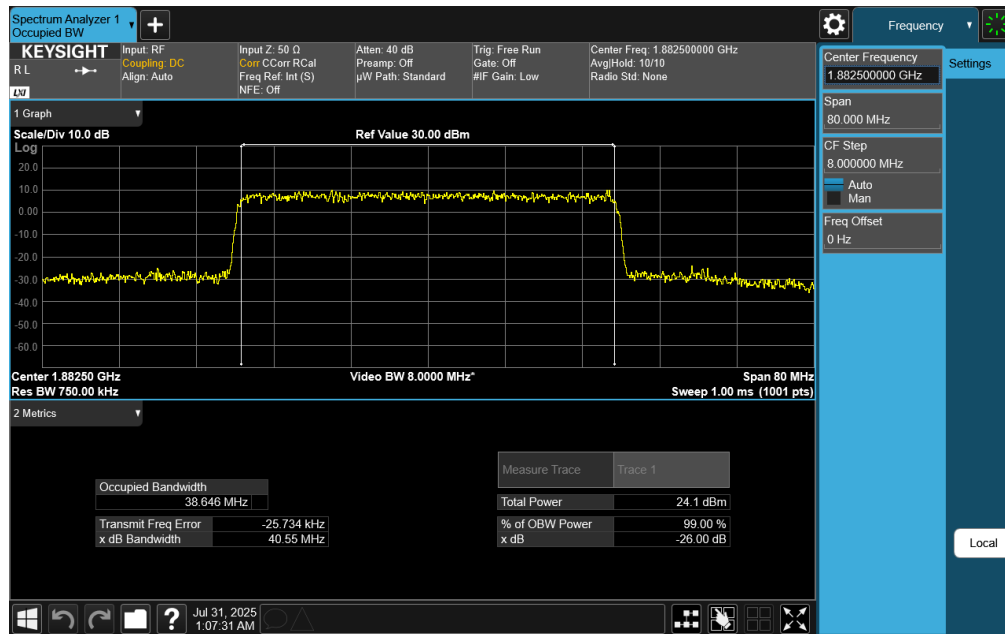


Plot 7-59. Occupied Bandwidth Plot (NR Band n25/n2 - 35MHz CP-OFDM 256QAM - Full RB)

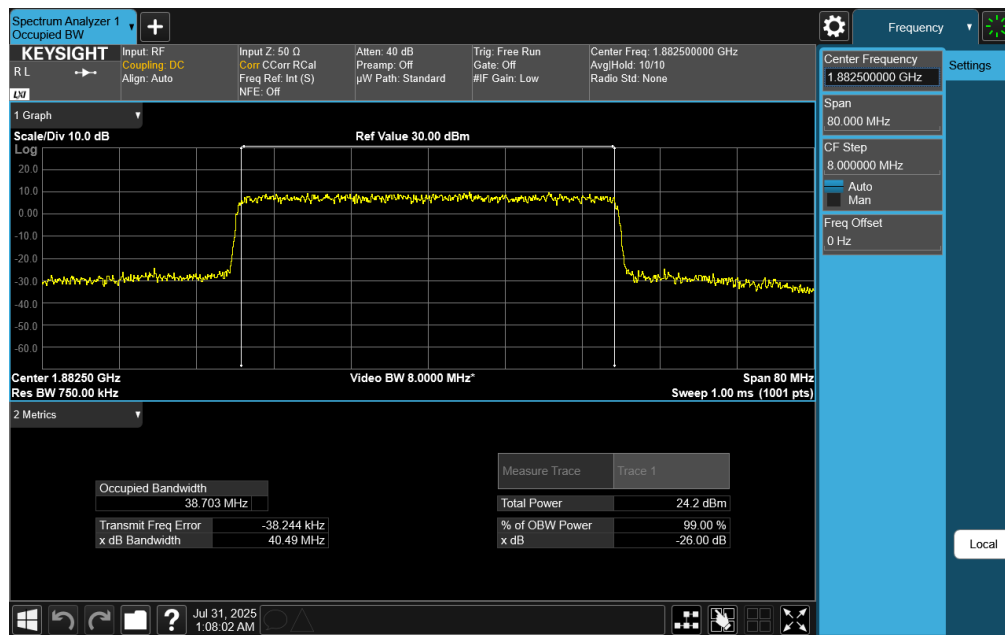


Plot 7-60. Occupied Bandwidth Plot (NR Band n25/n2 - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-61. Occupied Bandwidth Plot (NR Band n25/n2 - 40MHz CP-OFDM QPSK - Full RB)

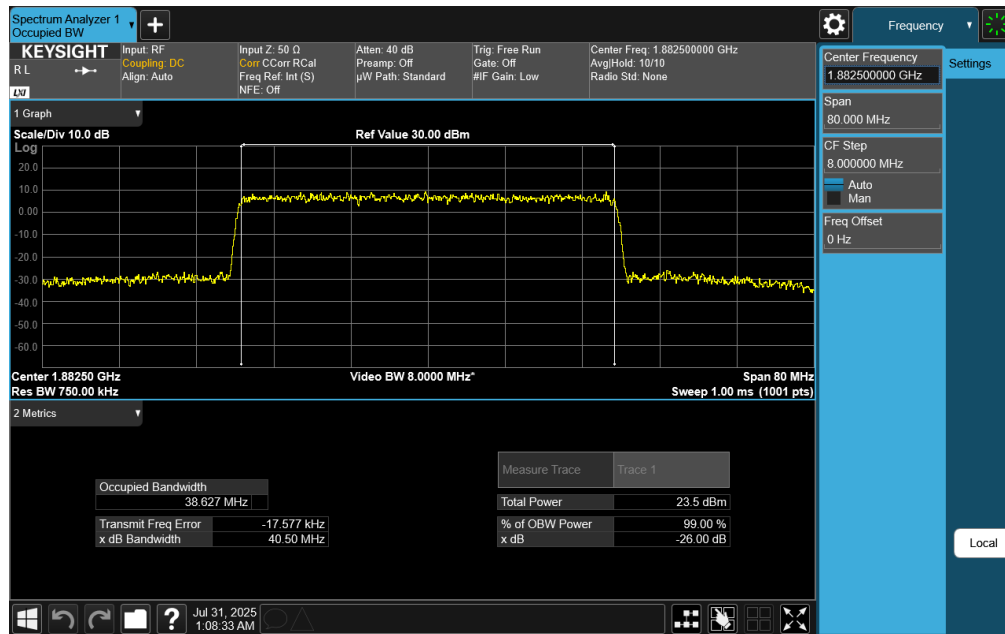


Plot 7-62. Occupied Bandwidth Plot (NR Band n25/n2 - 40MHz CP-OFDM 16QAM - Full RB)

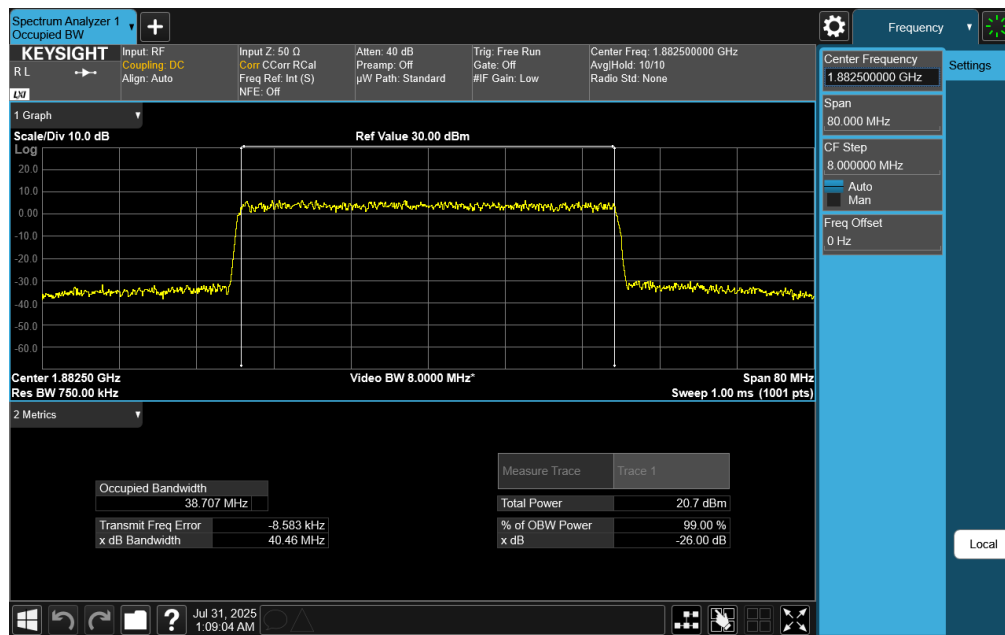
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-08.BCG	Test Dates: 7/15/2025 - 10/11/2025	EUT Type: Tablet Device
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Plot 7-63. Occupied Bandwidth Plot (NR Band n25/n2 - 40MHz CP-OFDM 64QAM - Full RB)



Plot 7-64. Occupied Bandwidth Plot (NR Band n25/n2 - 40MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §24.238(a)

Test Overview and Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 20GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
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.

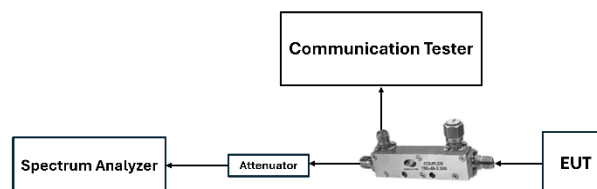


Figure 7-3. LTE Test Instrument & Measurement Setup

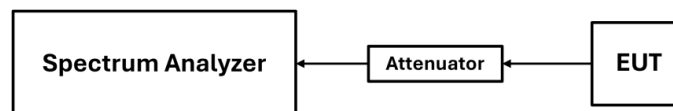


Figure 7-4. FR1 Test Instrument & Measurement Setup

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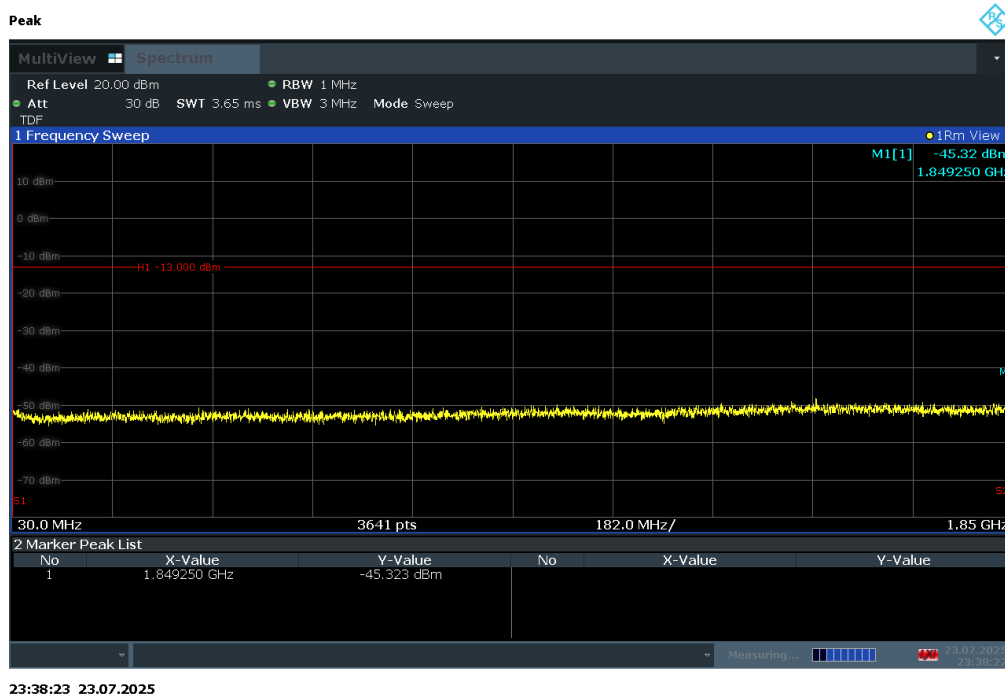
Test Notes

1. Per Part 24, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

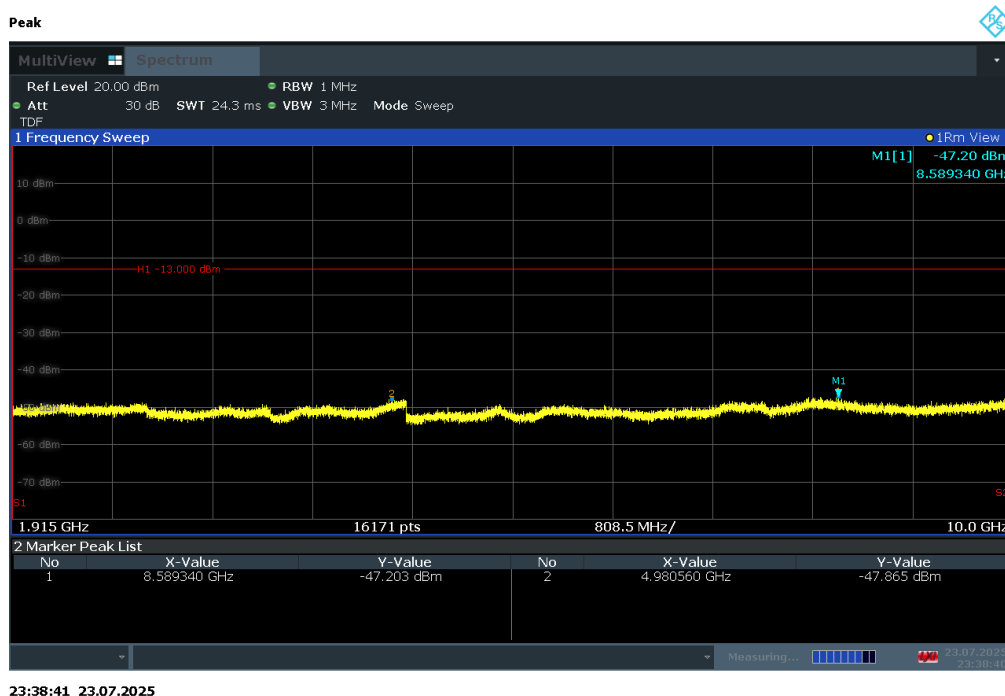
FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 25/2



Plot 7-66. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

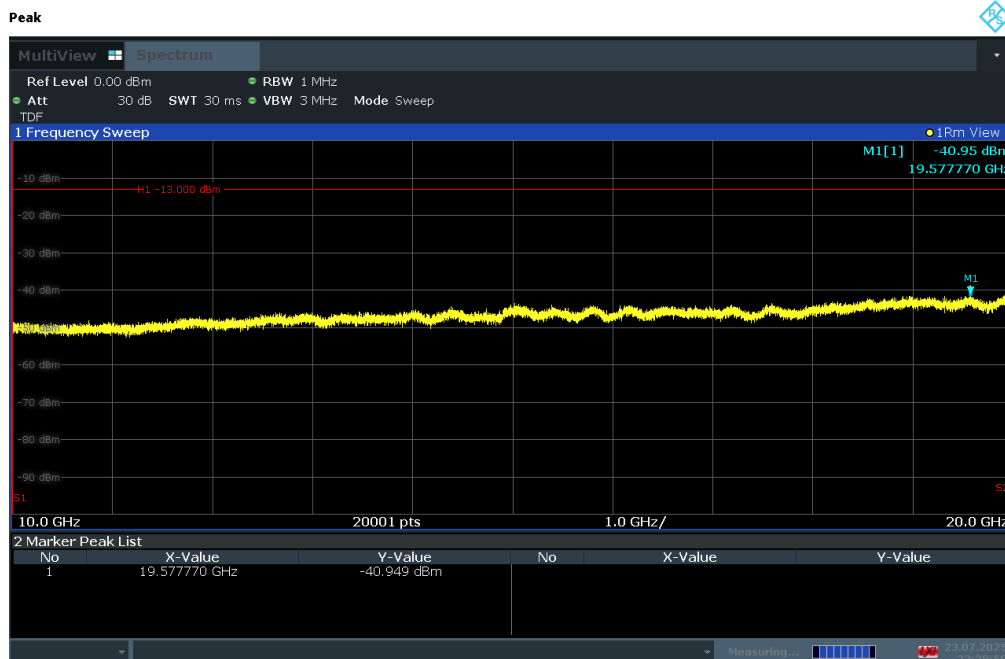


Plot 7-67. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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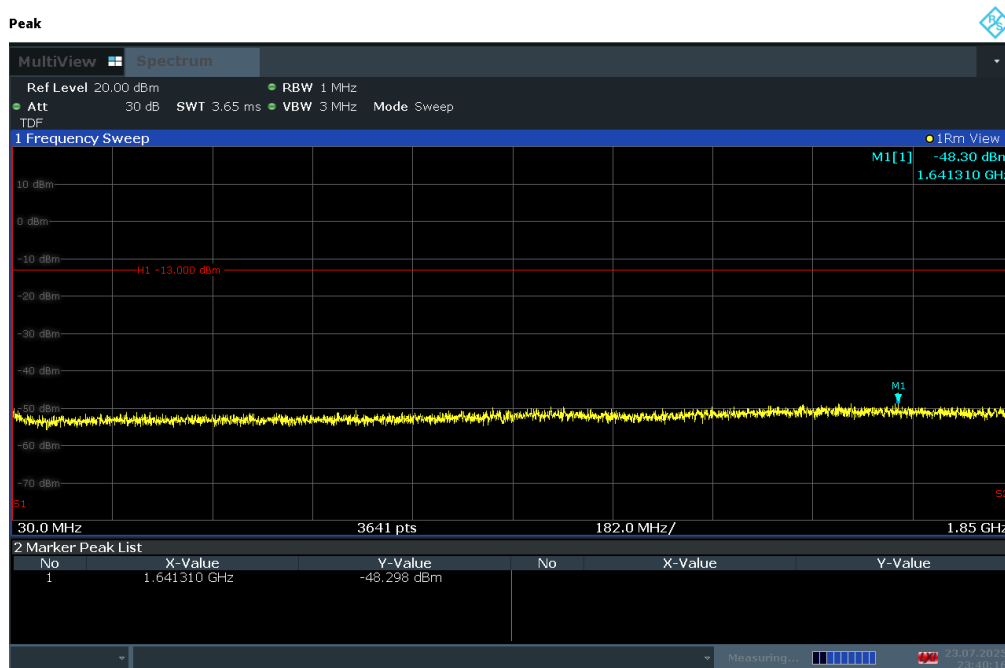
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23:39:00 23.07.2025

Plot 7-68. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



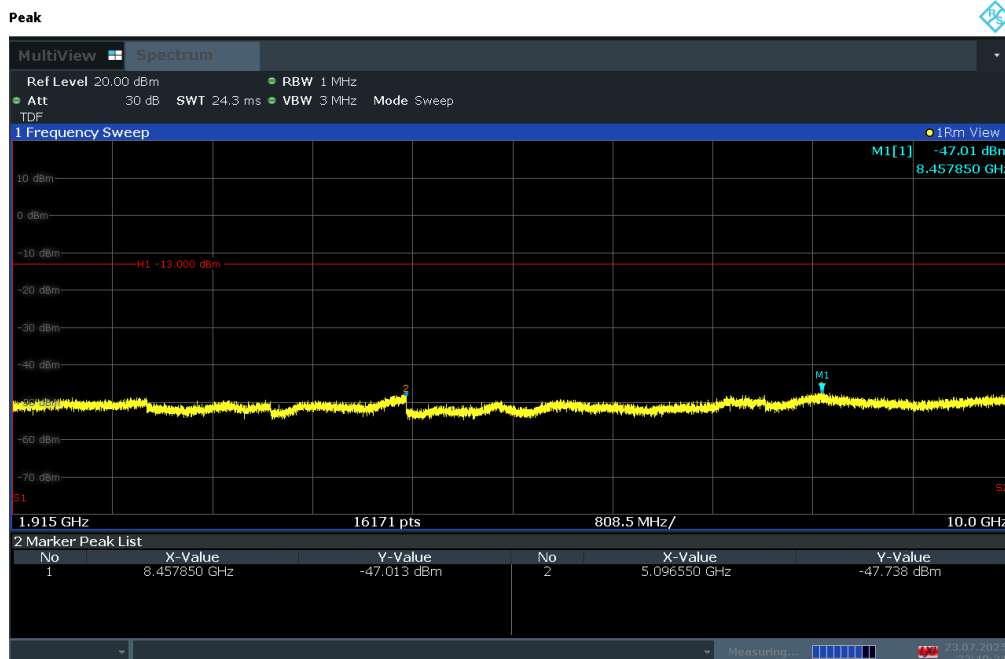
23:40:16 23.07.2025

Plot 7-69. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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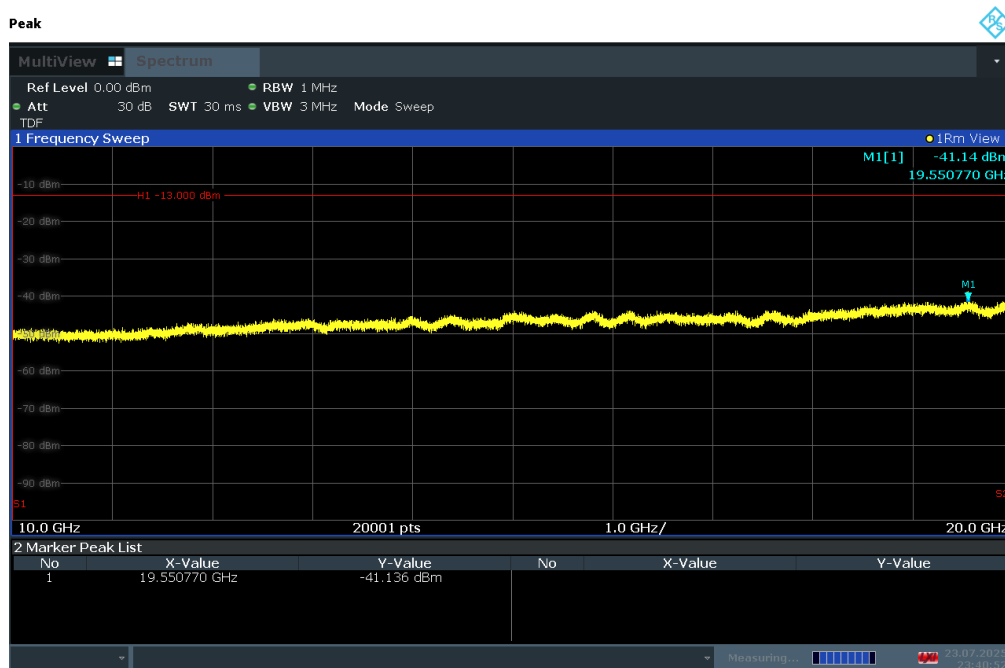
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23:40:34 23.07.2025

Plot 7-70. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



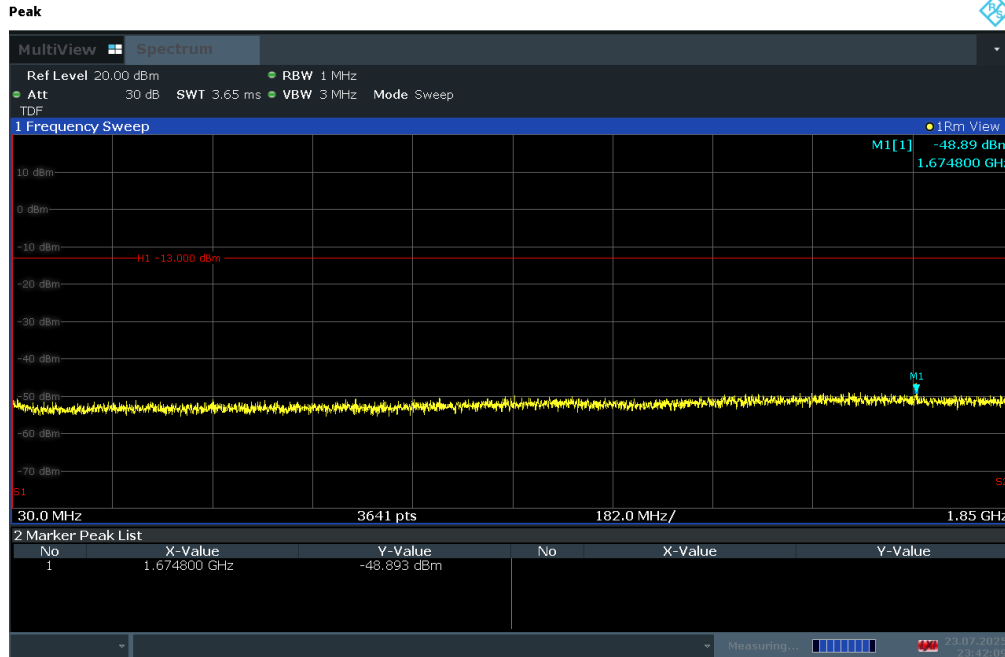
23:40:53 23.07.2025

Plot 7-71. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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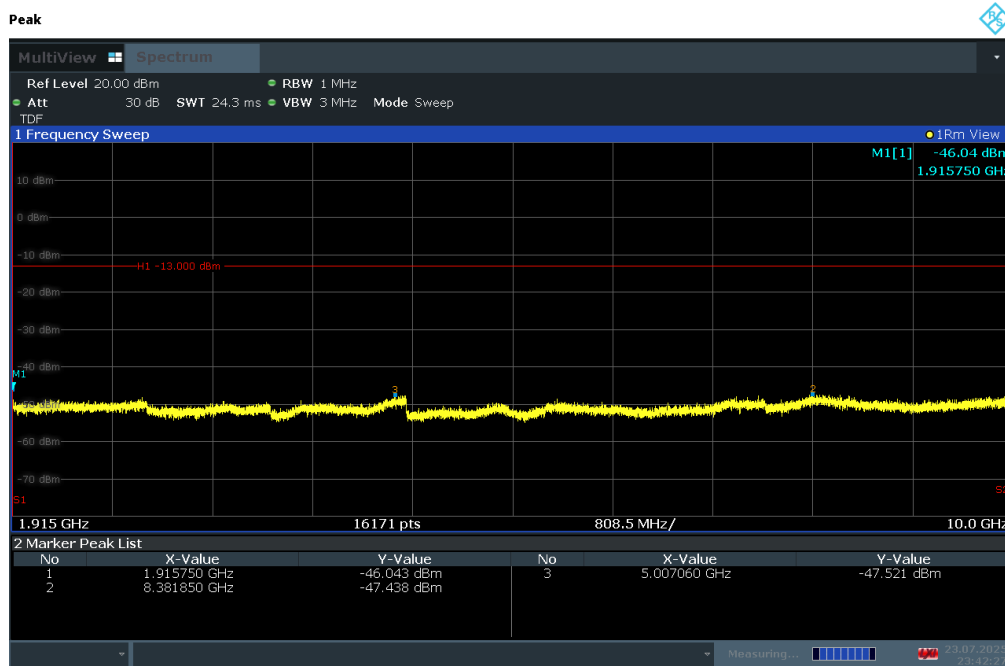
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23:42:09 23.07.2025

Plot 7-72. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



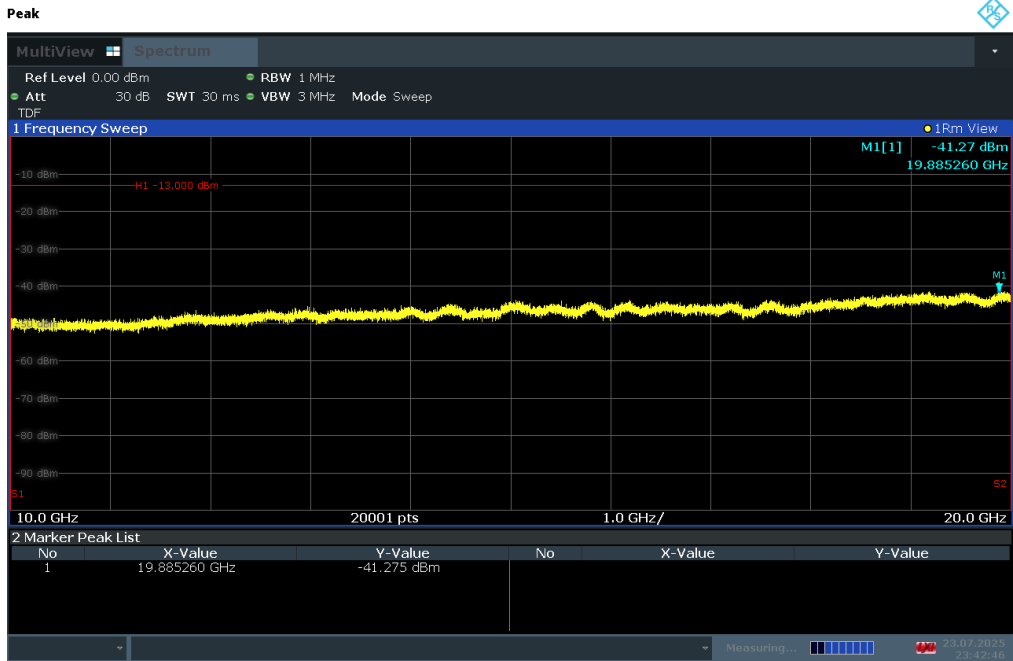
23:42:27 23.07.2025

Plot 7-73. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3462		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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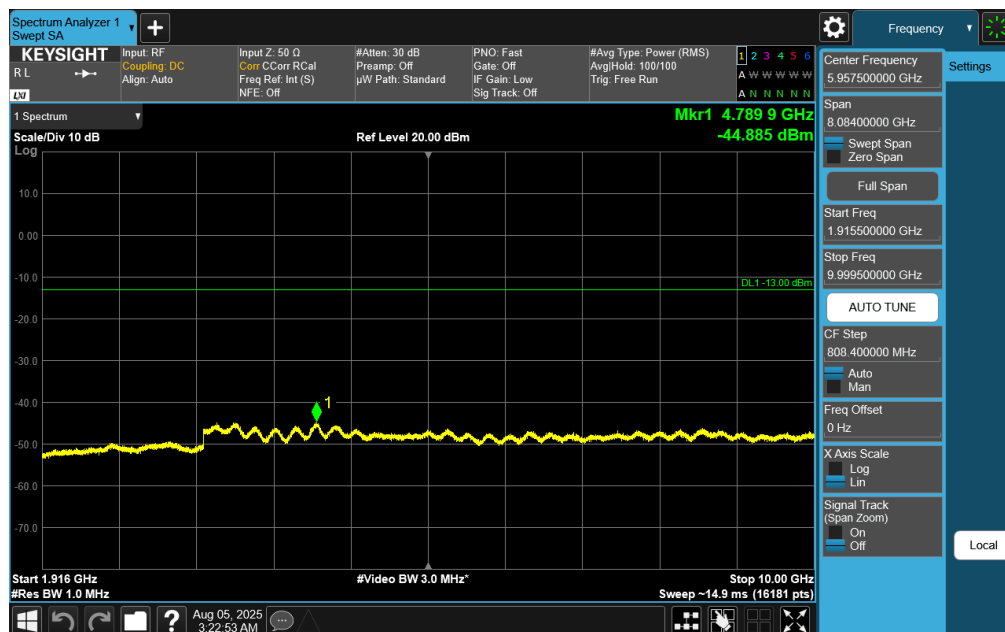
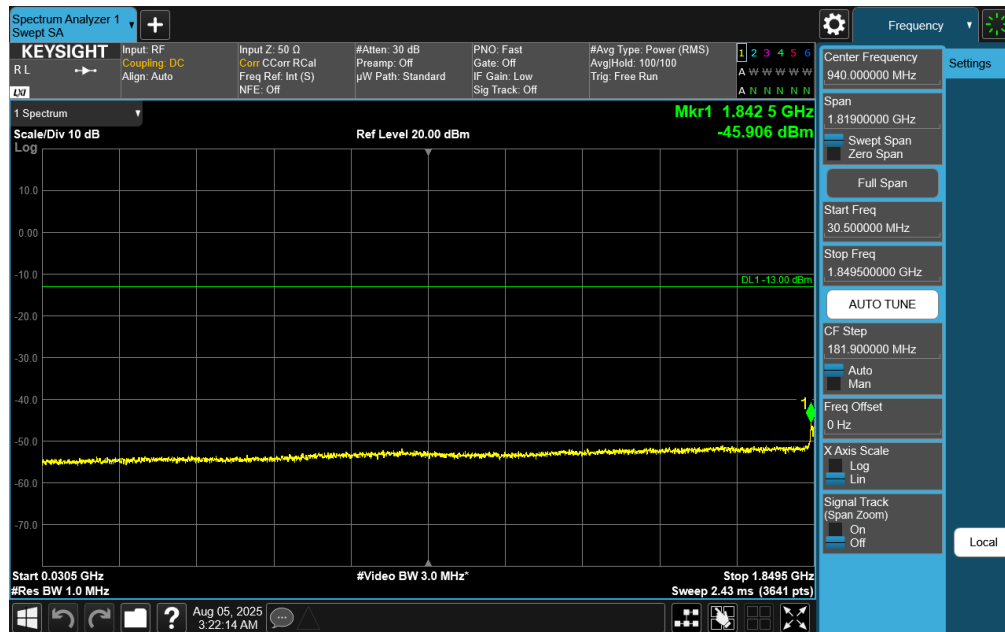
23:42:46 23.07.2025

Plot 7-74. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3462	element PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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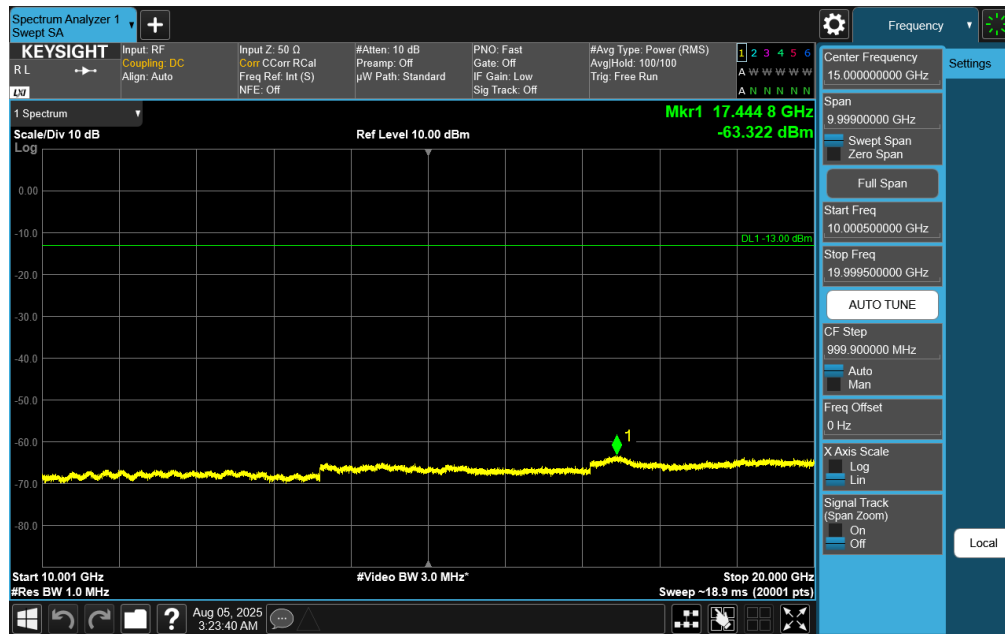
NR Band n25/n2



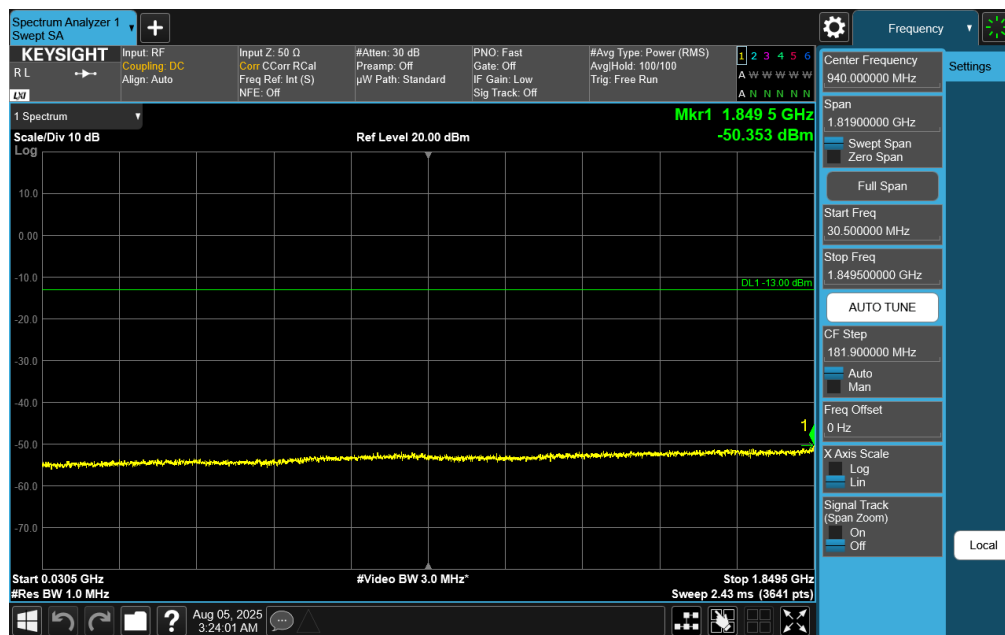
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-77. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - Low Channel)

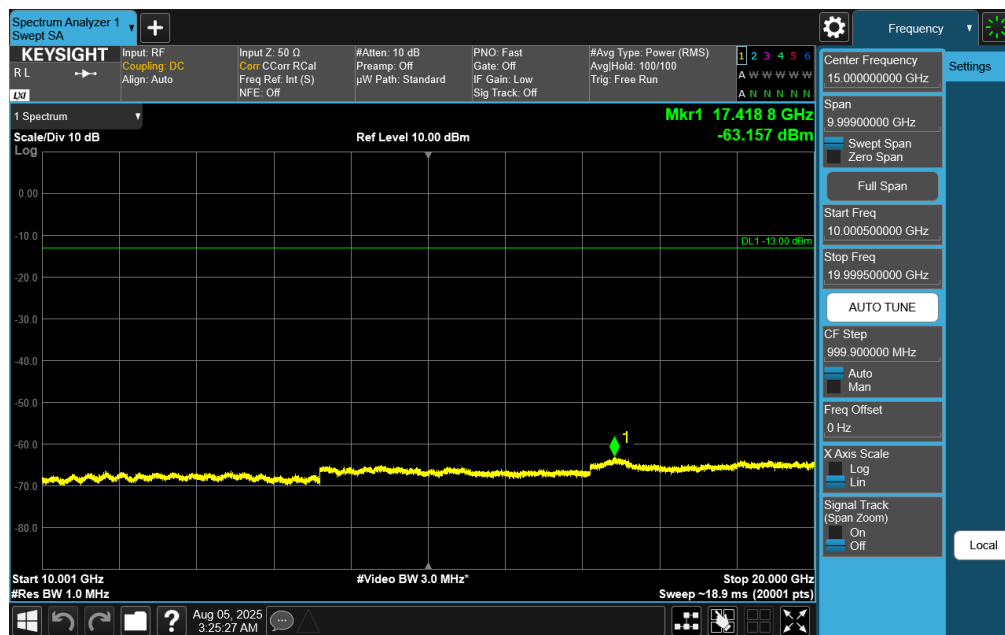
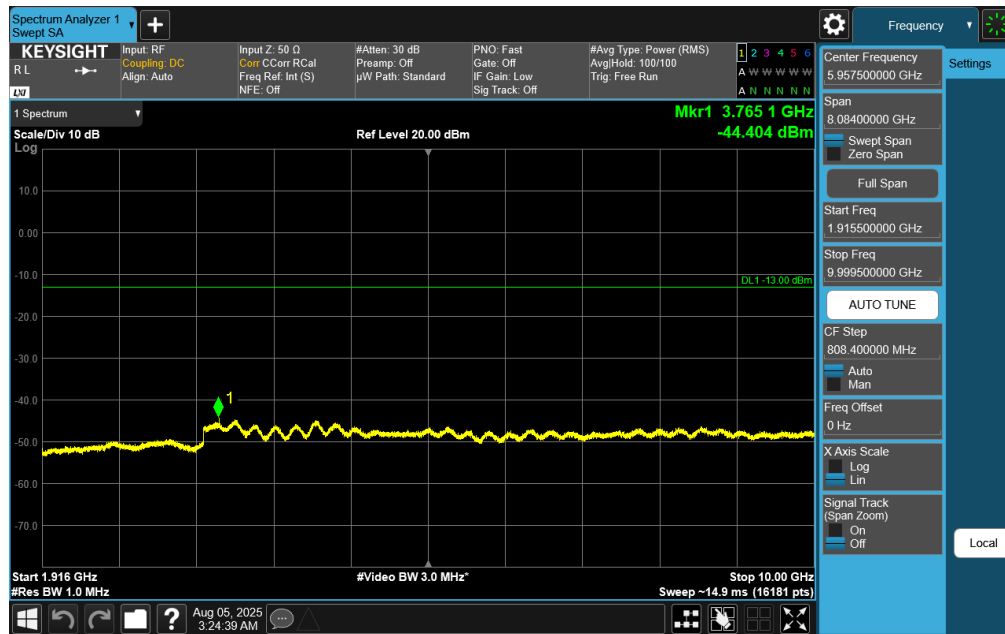


Plot 7-78. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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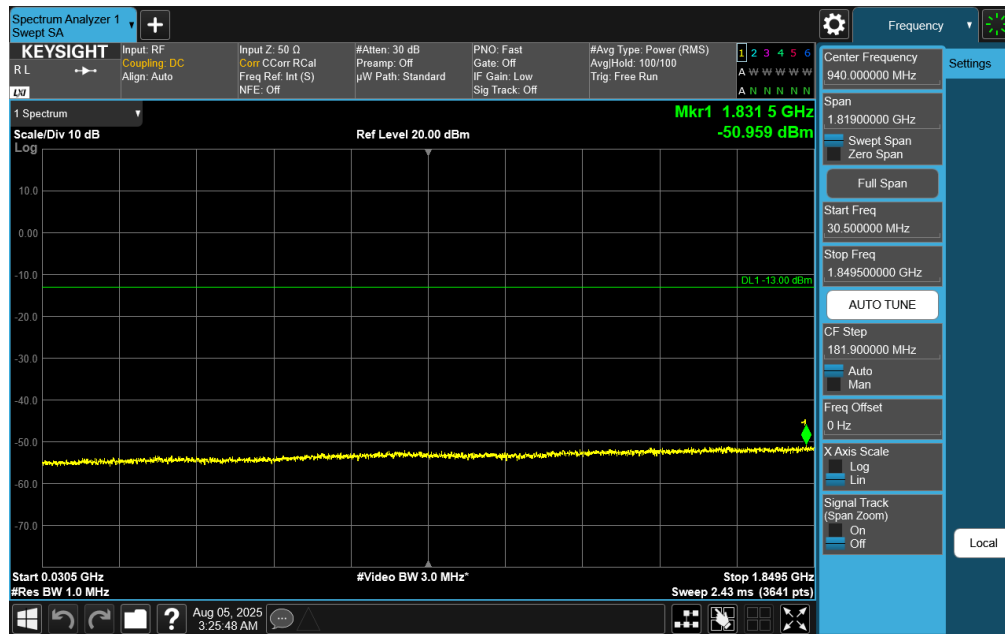
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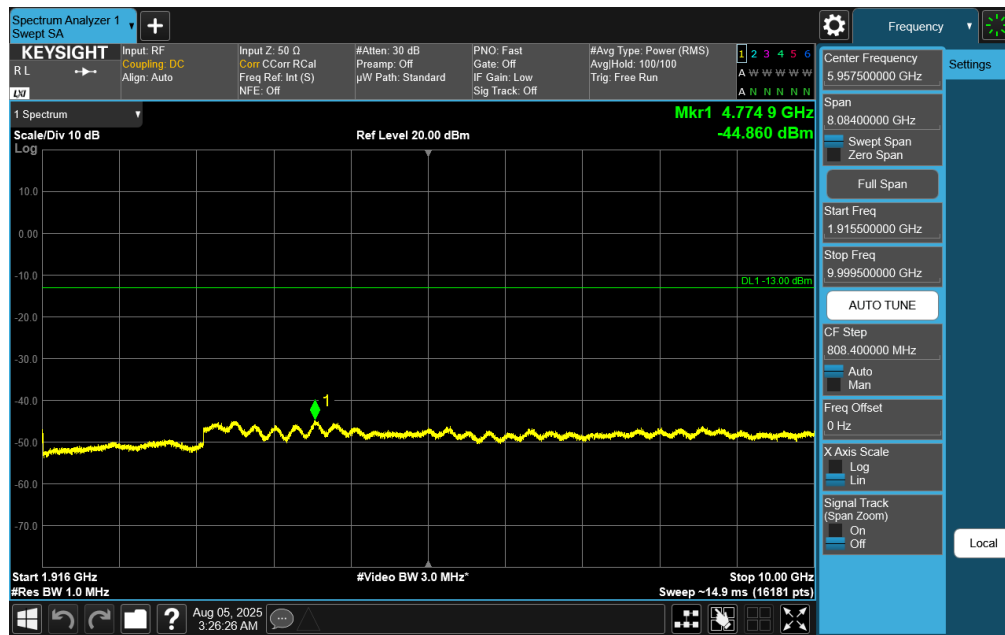
FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-81. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - High Channel)

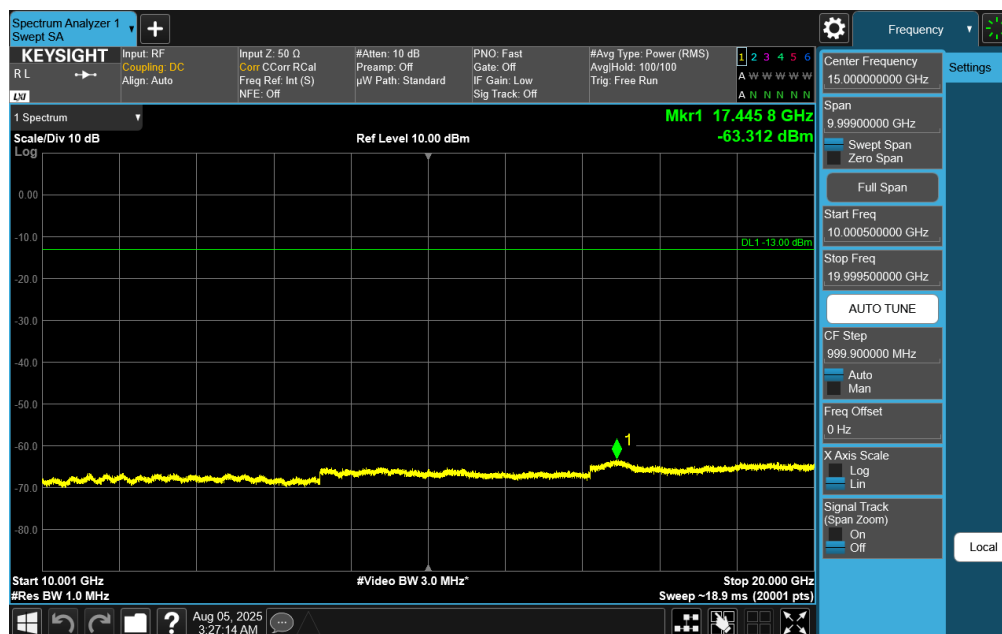


Plot 7-82. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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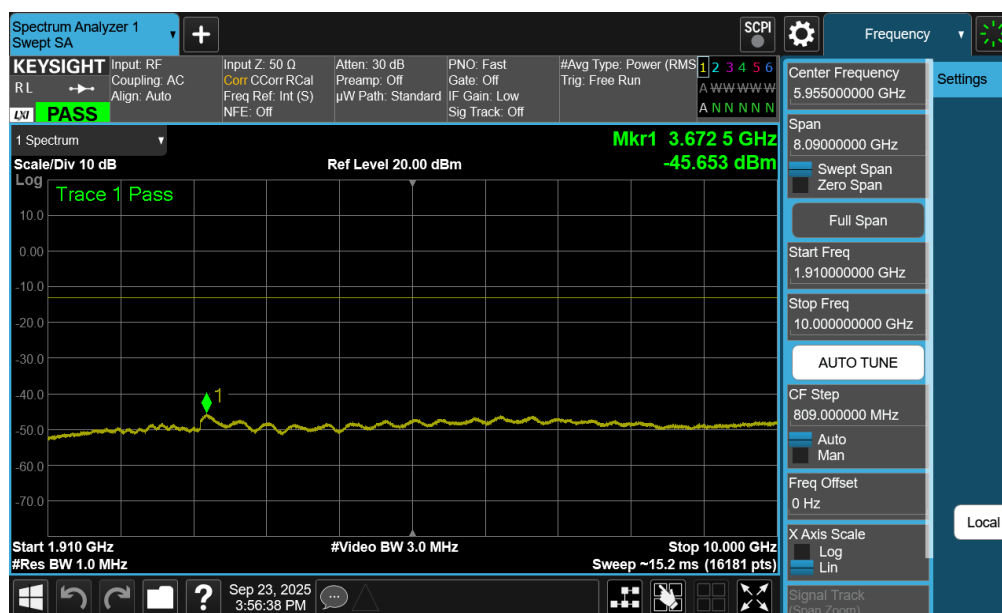
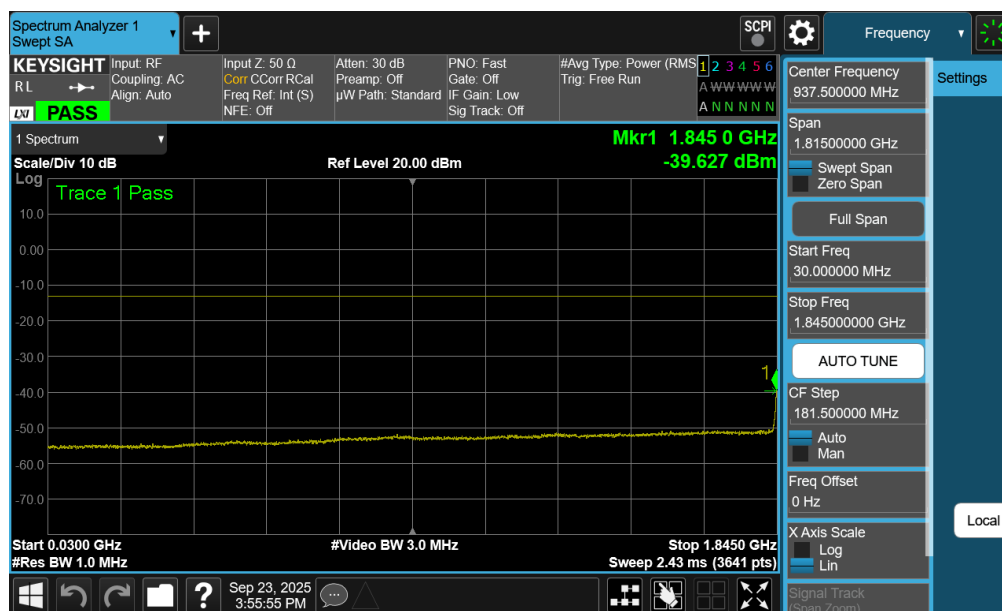
Plot 7-83. Conducted Spurious Plot (NR Band n25/n2 - 40.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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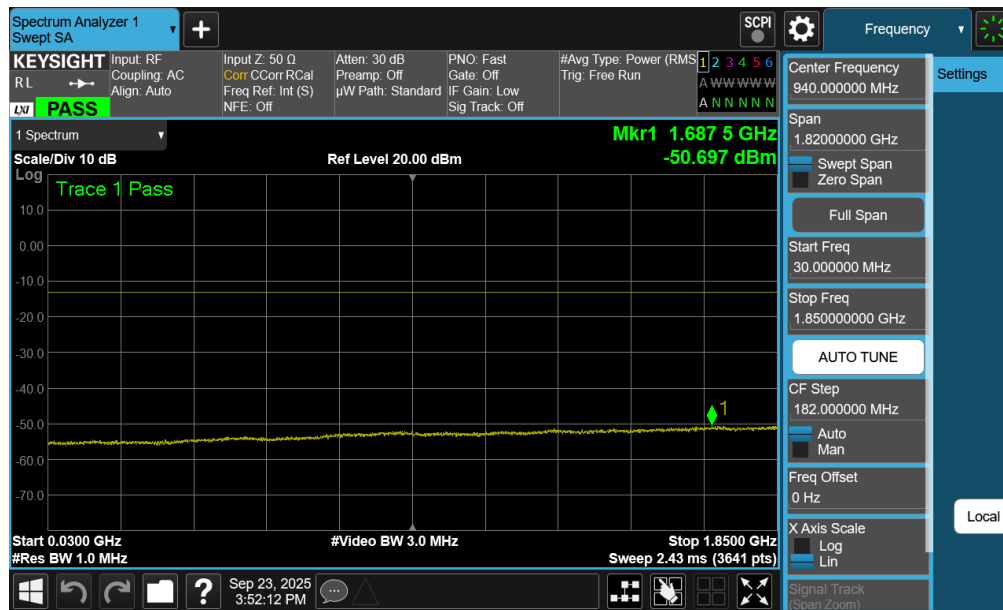
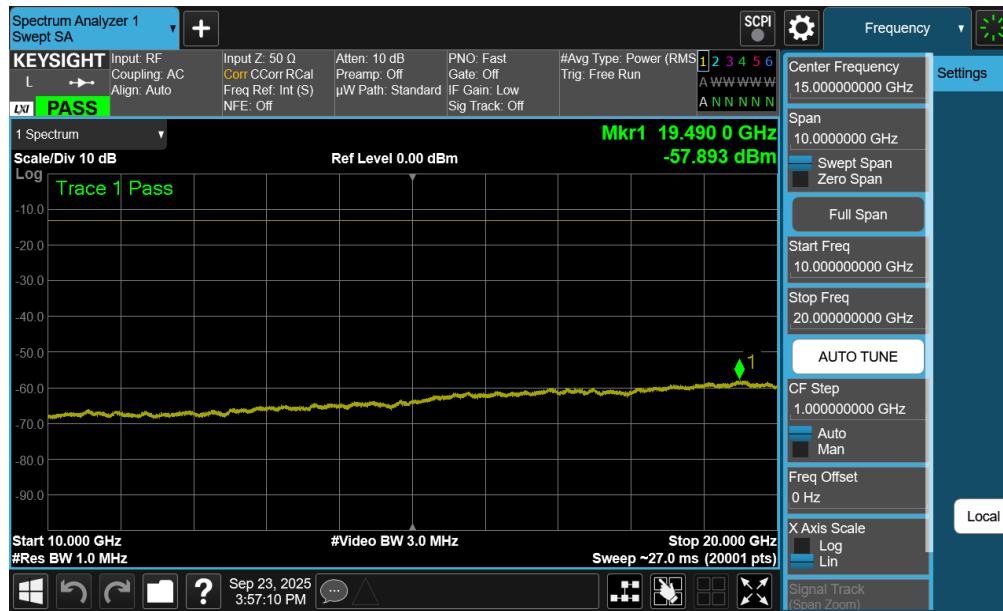
WCDMA PCS



FCC ID: BCGA3462	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
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