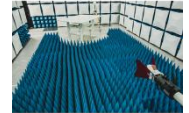




ELEMENT MATERIALS TECHNOLOGY

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Tel. 408.538.5600
<http://www.element.com>



MEASUREMENT REPORT PART 27

Applicant Name:

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

Date of Testing:

7/15/2025 - 11/11/2025

Test Report Issue Date:

1/16/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2509100082-10-R1.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:

27

Test Procedure(s):

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

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

This revised Test Report (S/N: 1C2509100082-10-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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

RJ Ortanez
Executive Vice President



FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 1 of 318

V2.2 09/07/2023

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Revision Summary

Revision	Date	Comments	Revised By
-	12/19/2025	Initial Release	WKR0000007837
R1	1/9/2026	Addressed TCB Comment in Overview Table	WKR0000007837

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device
		Page 2 of 318

V2.2 09/07/2023

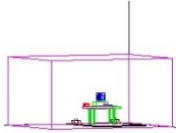
TABLE OF CONTENTS

1.0	INTRODUCTION	8
1.1	Scope	8
1.2	Element Materials Technology Test Location.....	8
1.3	Test Facility / Accreditations.....	8
2.0	PRODUCT INFORMATION.....	9
2.1	Equipment Description	9
2.2	Device Capabilities.....	9
2.3	Antenna Description	10
2.4	Test Support Equipment.....	10
2.5	Test Configuration	10
2.6	Software and Firmware	10
2.7	EMI Suppression Device(s)/Modifications	10
3.0	DESCRIPTION OF TESTS	11
3.1	Evaluation Procedure	11
3.2	Radiated Spurious Emissions	11
4.0	MEASUREMENT UNCERTAINTY	12
5.0	TEST EQUIPMENT CALIBRATION DATA	13
6.0	SAMPLE CALCULATIONS	14
7.0	TEST RESULTS.....	15
7.1	Summary.....	15
7.2	Occupied Bandwidth	17
7.3	Spurious and Harmonic Emissions at Antenna Terminal	105
7.4	Band Edge Emissions at Antenna Terminal	147
7.5	Radiated Power (EIRP).....	230
7.6	Radiated Spurious Emissions	268
7.7	Frequency Stability / Temperature Variation	311
8.0	CONCLUSION.....	318

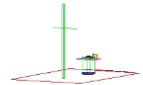
FCC ID: BCGA3462		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 3 of 318

V2.2 09/07/2023

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PART 27 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
LTE Band 30	5 MHz	QPSK	2307.5 - 2312.5	4.5361	0.222	23.47	4M54G7W
		16QAM	2307.5 - 2312.5	4.5449	0.194	22.88	4M54D7W
		64QAM	2307.5 - 2312.5	4.5468	0.148	21.69	4M55D7W
		256QAM	2307.5 - 2312.5	4.5395	0.078	18.93	4M54D7W
	10MHz	QPSK	2310	9.0439	0.208	23.19	9M04G7W
		16QAM	2310	9.0410	0.183	22.62	9M04D7W
		64QAM	2310	9.0552	0.145	21.62	9M06D7W
		256QAM	2310	9.0576	0.078	18.93	9M06D7W
LTE Band 7	5 MHz	QPSK	2502.5 - 2567.5	4.5398	0.577	27.61	4M54G7W
		16QAM	2502.5 - 2567.5	4.5293	0.497	26.96	4M53D7W
		64QAM	2502.5 - 2567.5	4.5536	0.385	25.85	4M55D7W
		256QAM	2502.5 - 2567.5	4.5258	0.199	22.98	4M53D7W
	10 MHz	QPSK	2505 - 2565	9.0615	0.562	27.50	9M06G7W
		16QAM	2505 - 2565	9.0590	0.482	26.83	9M06D7W
		64QAM	2505 - 2565	9.0526	0.381	25.81	9M05D7W
		256QAM	2505 - 2565	9.0583	0.201	23.03	9M06D7W
	15 MHz	QPSK	2507.5 - 2562.5	13.5533	0.569	27.55	13M6G7W
		16QAM	2507.5 - 2562.5	13.5607	0.486	26.87	13M6D7W
		64QAM	2507.5 - 2562.5	13.5914	0.379	25.79	13M6D7W
		256QAM	2507.5 - 2562.5	13.5504	0.197	22.94	13M6D7W
	20 MHz	QPSK	2510 - 2560	18.0135	0.558	27.47	18M0G7W
		16QAM	2510 - 2560	18.0348	0.488	26.88	18M0D7W
		64QAM	2510 - 2560	18.0353	0.368	25.66	18M0D7W
		256QAM	2510 - 2560	17.9928	0.197	22.95	18M0D7W
LTE Band 41 (PC2)	5 MHz	QPSK	2498.5 - 2687.5	4.5668	1.279	31.07	4M57G7W
		16QAM	2498.5 - 2687.5	4.5482	1.161	30.65	4M55D7W
		64QAM	2498.5 - 2687.5	4.5645	0.859	29.34	4M56D7W
		256QAM	2498.5 - 2687.5	4.5674	0.435	26.38	4M57D7W
	10 MHz	QPSK	2501 - 2685	9.0650	1.265	31.02	9M07G7W
		16QAM	2501 - 2685	9.0563	1.151	30.61	9M06D7W
		64QAM	2501 - 2685	9.0708	0.906	29.57	9M07D7W
		256QAM	2501 - 2685	9.0792	0.447	26.50	9M08D7W
	15 MHz	QPSK	2503.5 - 2682.5	13.5804	1.282	31.08	13M6G7W
		16QAM	2503.5 - 2682.5	13.5955	1.074	30.31	13M6D7W
		64QAM	2503.5 - 2682.5	13.5747	0.887	29.48	13M6D7W
		256QAM	2503.5 - 2682.5	13.5992	0.438	26.41	13M6D7W
	20 MHz	QPSK	2506 - 2680	18.0807	1.230	30.90	18M1G7W
		16QAM	2506 - 2680	18.0792	1.117	30.48	18M1D7W
		64QAM	2506 - 2680	18.0589	0.861	29.35	18M1D7W
		256QAM	2506 - 2680	18.0459	0.440	26.43	18M0D7W
LTE Band 41(PC3)	5 MHz	QPSK	2498.5 - 2687.5	4.5668	0.653	28.15	4M57G7W
		16QAM	2498.5 - 2687.5	4.5482	0.516	27.13	4M55D7W
		64QAM	2498.5 - 2687.5	4.5645	0.401	26.03	4M56D7W
		256QAM	2498.5 - 2687.5	4.5674	0.222	23.47	4M57D7W
	10 MHz	QPSK	2501 - 2685	9.0650	0.652	28.14	9M07G7W
		16QAM	2501 - 2685	9.0563	0.531	27.25	9M06D7W
		64QAM	2501 - 2685	9.0708	0.407	26.10	9M07D7W
		256QAM	2501 - 2685	9.0792	0.226	23.54	9M08D7W
	15 MHz	QPSK	2503.5 - 2682.5	13.5804	0.628	27.98	13M6G7W
		16QAM	2503.5 - 2682.5	13.5955	0.501	27.00	13M6D7W
		64QAM	2503.5 - 2682.5	13.5747	0.400	26.02	13M6D7W
		256QAM	2503.5 - 2682.5	13.5992	0.222	23.46	13M6D7W
	20 MHz	QPSK	2506 - 2680	18.0807	0.634	28.02	18M1G7W
		16QAM	2506 - 2680	18.0792	0.505	27.03	18M1D7W
		64QAM	2506 - 2680	18.0589	0.390	25.91	18M1D7W
		256QAM	2506 - 2680	18.0459	0.221	23.45	18M0D7W
ULCA LTE Band 7	20 + 20 MHz	QPSK	2520 - 2550	37.6324	0.608	27.84	37M6G7W
		16QAM	2520 - 2550	37.6187	0.426	26.29	37M6D7W
		64QAM	2520 - 2550	37.5974	0.344	25.36	37M6D7W
		256QAM	2520 - 2550	37.6298	0.207	23.15	37M6D7W
ULCA LTE Band 41(PC2)	20 + 20 MHz	QPSK	2516 - 2670	37.4645	1.052	30.22	37M5G7W
		16QAM	2516 - 2670	37.5184	0.735	28.66	37M5D7W
		64QAM	2516 - 2670	37.4900	0.592	27.72	37M5D7W
		256QAM	2516 - 2670	37.4451	0.308	24.89	37M4D7W
ULCA LTE Band 41(PC3)	20 + 20 MHz	QPSK	2516 - 2670	37.4645	0.678	28.31	37M5G7W
		16QAM	2516 - 2670	37.5184	0.426	26.29	37M5D7W
		64QAM	2516 - 2670	37.4900	0.343	25.35	37M5D7W
		256QAM	2516 - 2670	37.4451	0.178	22.51	37M4D7W

EUT Overview

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 4 of 318

V2.2 09/07/2023

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
NR Band n30	5 MHz	$\pi/2$ BPSK	2307.5 - 2312.5	4.4777	0.214	23.30	4M48G7W
		QPSK	2307.5 - 2312.5	4.4587	0.210	23.21	4M46G7W
		16QAM	2307.5 - 2312.5	4.4766	0.160	22.05	4M48D7W
		64QAM	2307.5 - 2312.5	4.4661	0.135	21.30	4M47D7W
		256QAM	2307.5 - 2312.5	4.4805	0.086	19.33	4M48D7W
	10MHz	$\pi/2$ BPSK	2310	8.9557	0.214	23.30	8M96G7W
		QPSK	2310	9.3243	0.207	23.16	9M32G7W
		16QAM	2310	9.2708	0.160	22.03	9M27D7W
		64QAM	2310	9.2422	0.133	21.24	9M24D7W
		256QAM	2310	9.3206	0.086	19.33	9M32D7W
NR Band n7	5 MHz	$\pi/2$ BPSK	2502.5 - 2567.5	4.4461	0.581	27.64	4M45G7W
		QPSK	2502.5 - 2567.5	4.4770	0.575	27.60	4M48G7W
		16QAM	2502.5 - 2567.5	4.4498	0.436	26.40	4M45D7W
		64QAM	2502.5 - 2567.5	4.4573	0.365	25.63	4M46D7W
		256QAM	2502.5 - 2567.5	4.4912	0.226	23.54	4M49D7W
	10 MHz	$\pi/2$ BPSK	2505 - 2565	8.9618	0.576	27.60	8M96G7W
		QPSK	2505 - 2565	9.3011	0.571	27.56	9M30G7W
		16QAM	2505 - 2565	9.2962	0.445	26.48	9M30D7W
		64QAM	2505 - 2565	9.2874	0.361	25.58	9M29D7W
		256QAM	2505 - 2565	9.2938	0.231	23.63	9M29D7W
	15 MHz	$\pi/2$ BPSK	2507.5 - 2562.5	13.3882	0.571	27.57	13M4G7W
		QPSK	2507.5 - 2562.5	14.1652	0.562	27.50	14M2G7W
		16QAM	2507.5 - 2562.5	14.1294	0.439	26.43	14M1D7W
		64QAM	2507.5 - 2562.5	14.0786	0.360	25.57	14M1D7W
		256QAM	2507.5 - 2562.5	14.1803	0.227	23.56	14M2D7W
	20 MHz	$\pi/2$ BPSK	2510 - 2560	17.8857	0.569	27.55	17M9G7W
		QPSK	2510 - 2560	18.9206	0.565	27.52	18M9G7W
		16QAM	2510 - 2560	19.0024	0.430	26.34	19M0D7W
		64QAM	2510 - 2560	18.9510	0.364	25.61	19M0D7W
		256QAM	2510 - 2560	19.0730	0.228	23.58	19M1D7W
	25 MHz	$\pi/2$ BPSK	2512.5 - 2557.5	22.9051	0.573	27.58	22M9G7W
		QPSK	2512.5 - 2557.5	23.7575	0.582	27.65	23M8G7W
		16QAM	2512.5 - 2557.5	23.7616	0.431	26.34	23M8D7W
		64QAM	2512.5 - 2557.5	23.7437	0.368	25.66	23M7D7W
		256QAM	2512.5 - 2557.5	23.7504	0.229	23.61	23M8D7W
	30 MHz	$\pi/2$ BPSK	2515 - 2555	28.5515	0.581	27.65	28M6G7W
		QPSK	2515 - 2555	28.6440	0.595	27.74	28M6G7W
		16QAM	2515 - 2555	28.6423	0.435	26.38	28M6D7W
		64QAM	2515 - 2555	28.6569	0.363	25.60	28M7D7W
		256QAM	2515 - 2555	28.6507	0.228	23.59	28M7D7W
	35 MHz	$\pi/2$ BPSK	2517.5 - 2552.5	32.2195	0.572	27.58	32M2G7W
		QPSK	2517.5 - 2552.5	33.6123	0.555	27.45	33M6G7W
		16QAM	2517.5 - 2552.5	33.6742	0.431	26.35	33M7D7W
		64QAM	2517.5 - 2552.5	33.6735	0.359	25.55	33M7D7W
		256QAM	2517.5 - 2552.5	33.5903	0.225	23.53	33M6D7W
	40 MHz	$\pi/2$ BPSK	2520 - 2550	38.5223	0.573	27.58	38M5G7W
		QPSK	2520 - 2550	38.6791	0.566	27.53	38M7G7W
		16QAM	2520 - 2550	38.6865	0.435	26.39	38M7D7W
		64QAM	2520 - 2550	38.5370	0.361	25.58	38M5D7W
		256QAM	2520 - 2550	38.6738	0.229	23.60	38M7D7W
	50 MHz	$\pi/2$ BPSK	2525 - 2545	48.1356	0.575	27.59	48M1G7W
		QPSK	2525 - 2545	48.1416	0.564	27.52	48M1G7W
		16QAM	2525 - 2545	48.3111	0.434	26.37	48M3D7W
		64QAM	2525 - 2545	48.2977	0.363	25.60	48M3D7W
		256QAM	2525 - 2545	48.2093	0.234	23.69	48M2D7W

EUT Overview

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 5 of 318

V2.2 09/07/2023

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
NR Band n41 (PC2)	10 MHz	TT/2 BPSK	2501 - 2685	8.6006	1.288	31.10	8M60G7W
		QPSK	2501 - 2685	8.5764	1.279	31.07	8M58G7W
		16QAM	2501 - 2685	8.6299	0.977	29.90	8M63D7W
		64QAM	2501 - 2685	8.6345	0.832	29.20	8M63D7W
		256QAM	2501 - 2685	8.5563	0.531	27.25	8M56D7W
	15MHz	TT/2 BPSK	2503.5 - 2682.5	12.8701	1.256	30.99	12M9G7W
		QPSK	2503.5 - 2682.5	13.6101	1.279	31.07	13M6G7W
		16QAM	2503.5 - 2682.5	13.5584	1.019	30.08	13M6D7W
		64QAM	2503.5 - 2682.5	13.5830	0.811	29.09	13M6D7W
		256QAM	2503.5 - 2682.5	13.6538	0.520	27.16	13M7D7W
	20 MHz	TT/2 BPSK	2506 - 2680	17.8739	1.282	31.08	17M9G7W
		QPSK	2506 - 2680	18.2274	1.285	31.09	18M2G7W
		16QAM	2506 - 2680	18.2438	1.030	30.13	18M2D7W
		64QAM	2506 - 2680	18.2153	0.804	29.05	18M2D7W
		256QAM	2506 - 2680	18.2157	0.520	27.16	18M2D7W
	25MHz	TT/2 BPSK	2508.5 - 2677.5	22.7684	1.321	31.21	22M8G7W
		QPSK	2508.5 - 2677.5	23.1660	1.268	31.03	23M2G7W
		16QAM	2508.5 - 2677.5	23.2231	1.002	30.01	23M2D7W
		64QAM	2508.5 - 2677.5	23.2858	0.832	29.20	23M3D7W
		256QAM	2508.5 - 2677.5	23.2666	0.528	27.23	23M3D7W
	30MHz	TT/2 BPSK	2511 - 2675	26.9145	1.285	31.09	26M9G7W
		QPSK	2511 - 2675	27.8850	1.291	31.11	27M9G7W
		16QAM	2511 - 2675	27.9823	0.982	29.92	28M0D7W
		64QAM	2511 - 2675	27.8799	0.817	29.12	27M9D7W
		256QAM	2511 - 2675	28.0694	0.509	27.07	28M1D7W
	35 MHz	TT/2 BPSK	2513.5 - 2672.5	32.1237	1.276	31.06	32M1G7W
		QPSK	2513.5 - 2672.5	32.8642	1.282	31.08	32M9G7W
		16QAM	2513.5 - 2672.5	32.9348	1.026	30.11	32M9D7W
		64QAM	2513.5 - 2672.5	32.9064	0.809	29.08	32M9D7W
		256QAM	2513.5 - 2672.5	32.9318	0.506	27.04	32M9D7W
	40 MHz	TT/2 BPSK	2516 - 2670	35.8300	1.279	31.07	35M8G7W
		QPSK	2516 - 2670	37.8646	1.285	31.09	37M9G7W
		16QAM	2516 - 2670	37.8443	0.979	29.91	37M8D7W
		64QAM	2516 - 2670	37.9302	0.815	29.11	37M9D7W
		256QAM	2516 - 2670	37.9364	0.507	27.05	37M9D7W
	45 MHz	TT/2 BPSK	2518.5 - 2667.5	38.6635	1.282	31.08	38M7G7W
		QPSK	2518.5 - 2667.5	42.6030	1.262	31.01	42M6G7W
		16QAM	2518.5 - 2667.5	42.5451	1.002	30.01	42M5D7W
		64QAM	2518.5 - 2667.5	42.4841	0.811	29.09	42M5D7W
		256QAM	2518.5 - 2667.5	42.6783	0.514	27.11	42M7D7W
	50 MHz	TT/2 BPSK	2521 - 2665	45.5364	1.282	31.08	45M5G7W
		QPSK	2521 - 2665	47.5295	1.253	30.98	47M5G7W
		16QAM	2521 - 2665	47.4846	0.989	29.95	47M5D7W
		64QAM	2521 - 2665	47.3868	0.824	29.16	47M4D7W
		256QAM	2521 - 2665	47.4136	0.519	27.15	47M4D7W
	60 MHz	TT/2 BPSK	2526 - 2660	57.8803	1.271	31.04	57M9G7W
		QPSK	2526 - 2660	57.9604	1.268	31.03	58M0G7W
		16QAM	2526 - 2660	57.8928	0.973	29.88	57M9D7W
		64QAM	2526 - 2660	57.9553	0.809	29.08	58M0D7W
		256QAM	2526 - 2660	58.0364	0.506	27.04	58M0D7W
	70 MHz	TT/2 BPSK	2531 - 2655	64.4915	1.279	31.07	64M5G7W
		QPSK	2531 - 2655	67.6648	1.268	31.03	67M7G7W
		16QAM	2531 - 2655	67.5614	0.946	29.76	67M6D7W
		64QAM	2531 - 2655	67.5260	0.804	29.05	67M5D7W
		256QAM	2531 - 2655	67.4413	0.502	27.01	67M4D7W
	80 MHz	TT/2 BPSK	2536 - 2650	77.3111	1.288	31.10	77M3G7W
		QPSK	2536 - 2650	77.6149	1.276	31.06	77M6G7W
		16QAM	2536 - 2650	77.6121	0.975	29.89	77M6D7W
		64QAM	2536 - 2650	77.5679	0.805	29.06	77M6D7W
		256QAM	2536 - 2650	77.4844	0.508	27.06	77M5D7W
	90 MHz	TT/2 BPSK	2541 - 2645	86.7436	1.271	31.04	86M7G7W
		QPSK	2541 - 2645	87.6277	1.306	31.16	87M6G7W
		16QAM	2541 - 2645	87.6238	0.955	29.80	87M6D7W
		64QAM	2541 - 2645	87.6573	0.805	29.06	87M7D7W
		256QAM	2541 - 2645	87.6055	0.507	27.05	87M6D7W
	100 MHz	TT/2 BPSK	2546 - 2640	96.2260	1.271	31.04	96M2G7W
		QPSK	2546 - 2640	97.4873	1.259	31.00	97M5G7W
		16QAM	2546 - 2640	97.3750	0.953	29.79	97M4D7W
		64QAM	2546 - 2640	97.4568	0.817	29.12	97M5D7W
		256QAM	2546 - 2640	97.6882	0.508	27.06	97M7D7W

EUT Overview

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 6 of 318

V2.2 09/07/2023

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
NR Band n41 (PC3)	10 MHz	TT/2 BPSK	2501 - 2685	8.6006	0.656	28.17	8M60G7W
		QPSK	2501 - 2685	8.5764	0.643	28.08	8M58G7W
		16QAM	2501 - 2685	8.6299	0.492	26.92	8M63D7W
		64QAM	2501 - 2685	8.6345	0.422	26.25	8M63D7W
		256QAM	2501 - 2685	8.5563	0.261	24.17	8M56D7W
	15 MHz	TT/2 BPSK	2503.5 - 2682.5	12.8701	0.634	28.02	12M9G7W
		QPSK	2503.5 - 2682.5	13.6101	0.637	28.04	13M6G7W
		16QAM	2503.5 - 2682.5	13.5584	0.484	26.85	13M6D7W
		64QAM	2503.5 - 2682.5	13.5830	0.408	26.11	13M6D7W
		256QAM	2503.5 - 2682.5	13.6538	0.267	24.26	13M7D7W
	20 MHz	TT/2 BPSK	2506 - 2680	17.8739	0.640	28.06	17M9G7W
		QPSK	2506 - 2680	18.2274	0.638	28.05	18M2G7W
		16QAM	2506 - 2680	18.2438	0.508	27.06	18M2D7W
		64QAM	2506 - 2680	18.2153	0.406	26.08	18M2D7W
		256QAM	2506 - 2680	18.2157	0.260	24.15	18M2D7W
	25 MHz	TT/2 BPSK	2508.5 - 2677.5	22.7684	0.659	28.19	22M8G7W
		QPSK	2508.5 - 2677.5	23.1660	0.678	28.31	23M2G7W
		16QAM	2508.5 - 2677.5	23.2231	0.512	27.09	23M2D7W
		64QAM	2508.5 - 2677.5	23.2858	0.416	26.19	23M3D7W
		256QAM	2508.5 - 2677.5	23.2666	0.260	24.15	23M3D7W
	30 MHz	TT/2 BPSK	2511 - 2675	26.9145	0.646	28.10	26M9G7W
		QPSK	2511 - 2675	27.8850	0.647	28.11	27M9G7W
		16QAM	2511 - 2675	27.9823	0.511	27.08	28M0D7W
		64QAM	2511 - 2675	27.8799	0.399	26.01	27M9D7W
		256QAM	2511 - 2675	28.0694	0.254	24.04	28M1D7W
	35 MHz	TT/2 BPSK	2513.5 - 2672.5	32.1237	0.634	28.02	32M1G7W
		QPSK	2513.5 - 2672.5	32.8642	0.646	28.10	32M9G7W
		16QAM	2513.5 - 2672.5	32.9348	0.518	27.14	32M9D7W
		64QAM	2513.5 - 2672.5	32.9064	0.401	26.03	32M9D7W
		256QAM	2513.5 - 2672.5	32.9318	0.251	23.99	32M9D7W
	40 MHz	TT/2 BPSK	2516 - 2670	35.8300	0.635	28.03	35M8G7W
		QPSK	2516 - 2670	37.8646	0.644	28.09	37M9G7W
		16QAM	2516 - 2670	37.8443	0.489	26.89	37M8D7W
		64QAM	2516 - 2670	37.9302	0.405	26.07	37M9D7W
		256QAM	2516 - 2670	37.9364	0.255	24.07	37M9D7W
	45 MHz	TT/2 BPSK	2518.5 - 2667.5	38.6635	0.630	27.99	38M7G7W
		QPSK	2518.5 - 2667.5	42.6030	0.631	28.00	42M6G7W
		16QAM	2518.5 - 2667.5	42.5451	0.513	27.10	42M5D7W
		64QAM	2518.5 - 2667.5	42.4841	0.405	26.07	42M5D7W
		256QAM	2518.5 - 2667.5	42.6783	0.256	24.09	42M7D7W
	50 MHz	TT/2 BPSK	2521 - 2665	45.5364	0.641	28.07	45M5G7W
		QPSK	2521 - 2665	47.5295	0.619	27.92	47M5G7W
		16QAM	2521 - 2665	47.4846	0.483	26.84	47M5D7W
		64QAM	2521 - 2665	47.3868	0.408	26.11	47M4D7W
		256QAM	2521 - 2665	47.4136	0.259	24.13	47M4D7W
	60 MHz	TT/2 BPSK	2526 - 2660	57.8803	0.631	28.00	57M9G7W
		QPSK	2526 - 2660	57.9604	0.643	28.08	58M0G7W
		16QAM	2526 - 2660	57.8928	0.481	26.82	57M9D7W
		64QAM	2526 - 2660	57.9553	0.389	25.90	58M0D7W
		256QAM	2526 - 2660	58.0364	0.251	23.99	58M0D7W
	70 MHz	TT/2 BPSK	2531 - 2655	64.4915	0.637	28.04	64M5G7W
		QPSK	2531 - 2655	67.6648	0.647	28.11	67M7G7W
		16QAM	2531 - 2655	67.5614	0.470	26.72	67M6D7W
		64QAM	2531 - 2655	67.5260	0.390	25.91	67M5D7W
		256QAM	2531 - 2655	67.4413	0.248	23.95	67M4D7W
	80 MHz	TT/2 BPSK	2536 - 2650	77.3111	0.630	27.99	77M3G7W
		QPSK	2536 - 2650	77.6149	0.659	28.19	77M6G7W
		16QAM	2536 - 2650	77.6121	0.479	26.80	77M6D7W
		64QAM	2536 - 2650	77.5679	0.397	25.99	77M6D7W
		256QAM	2536 - 2650	77.4844	0.247	23.92	77M5D7W
	90 MHz	TT/2 BPSK	2541 - 2645	86.7436	0.638	28.05	86M7G7W
		QPSK	2541 - 2645	87.6277	0.658	28.18	87M6G7W
		16QAM	2541 - 2645	87.6238	0.485	26.86	87M6D7W
		64QAM	2541 - 2645	87.6573	0.395	25.97	87M7D7W
		256QAM	2541 - 2645	87.6055	0.249	23.96	87M6D7W
	100 MHz	TT/2 BPSK	2546 - 2640	96.2260	0.617	27.90	96M2G7W
		QPSK	2546 - 2640	97.4873	0.612	27.87	97M5G7W
		16QAM	2546 - 2640	97.3750	0.482	26.83	97M4D7W
		64QAM	2546 - 2640	97.4568	0.402	26.04	97M5D7W
		256QAM	2546 - 2640	97.6882	0.252	24.01	97M7D7W

EUT Overview

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 7 of 318

V2.2 09/07/2023

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 ISSED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISSED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISSED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

FCC ID: BCGA3462		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 8 of 318

V2.2 09/07/2023

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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 27.

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.

Measurements for LTE ULCA B41 were performed with NS04 for all antennas.

This device supports simultaneous transmission operations, which allows 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:

1. 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.

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 9 of 318

V2.2 09/07/2023

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2.3 Antenna Description

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

Band	Antenna Gain [dBi]			
	Antenna 4	Antenna 2	Antenna 3b	Antenna 1b
LTE Band 30	1.8	0.3	-0.1	-0.9
NR Band n30				
LTE Band 7	1.2	3.4	-1.7	-1.3
NR Band n7				
LTE Band 41	1.6	2.9	-1.9	-1.6
NR Band n41				

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.

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 10 of 318

V2.2 09/07/2023

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:

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

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.

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 11 of 318

V2.2 09/07/2023

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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
Radiated Disturbance (>18GHz)	5.18

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device
		Page 12 of 318

V2.2 09/07/2023

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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
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

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. * denotes passive equipment that have been internally verified/calibrated.

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 13 of 318

V2.2 09/07/2023

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6.0 SAMPLE CALCULATIONS

Emission Designator

$\pi/2$ BPSK / QPSK Modulation

Emission Designator = 8M62G7W

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W

BW = 8.45 MHz

D = Amplitude/Angle Modulated

7 = Quantized/Digital Info

W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

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

FCC ID: BCGA3462		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 14 of 318

V2.2 09/07/2023

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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): LTE/NR/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 (LTE Band 30 and NR Band n30)	2.1051, 27.53(a)	Undesirable emissions must meet the limits detailed in 27.53(a)	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions	2.1051, 27.53(m)	Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Sections 7.3, 7.4
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Equivalent Isotropic Radiated Power (LTE Band 30 and NR Band n30)	27.50(a)(3)	< 0.25 Watts max. EIRP	PASS	Section 7.6
	Equivalent Isotropic Radiated Power	27.50(h)(2)	< 2 Watts max. EIRP	PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	PASS	Section 7.8
RADIATED	Radiated Spurious Emissions (LTE Band 30 and NR Band n30)	2.1053, 27.53(a)	> 70 + 10log10(P[Watts])	PASS	Section 7.7
	Radiated Spurious Emissions	2.1053, 27.53(m)	Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Section 7.7

Table 7-1. Summary of Test Results

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 15 of 318

V2.2 09/07/2023

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 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.

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 16 of 318

V2.2 09/07/2023

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.

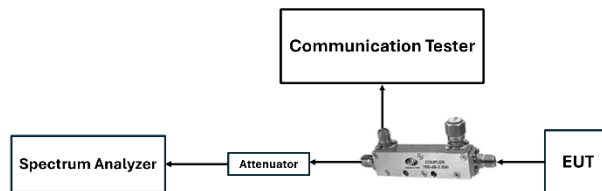


Figure 7-1. LTE Test Instrument & Measurement Setup

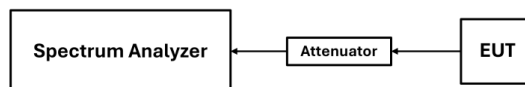


Figure 7-2. FR1 Test Instrument & Measurement Setup

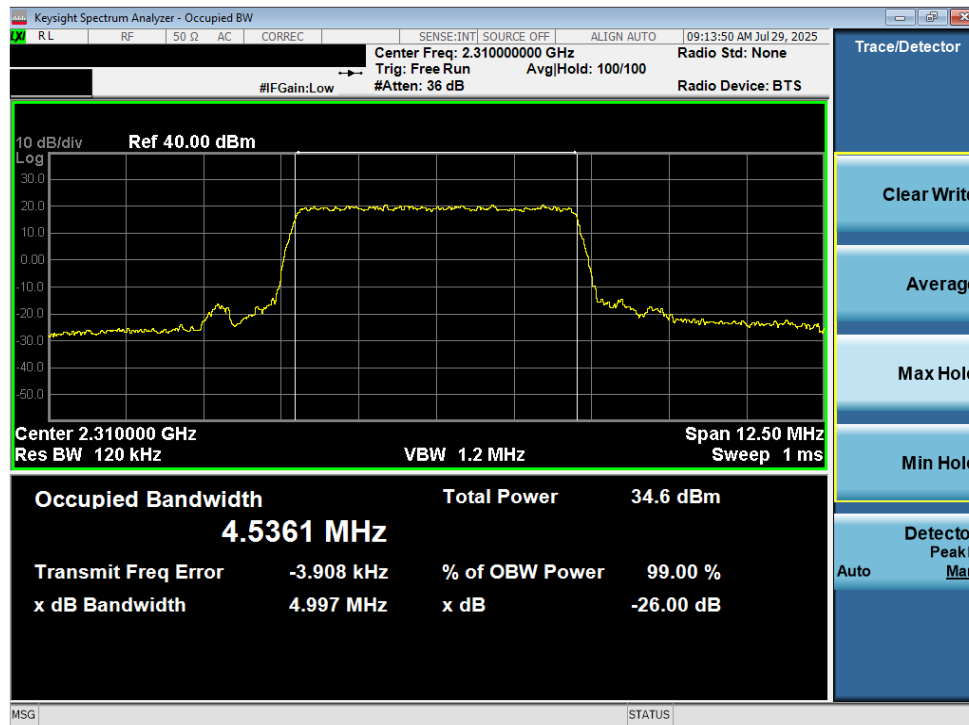
Test Notes

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

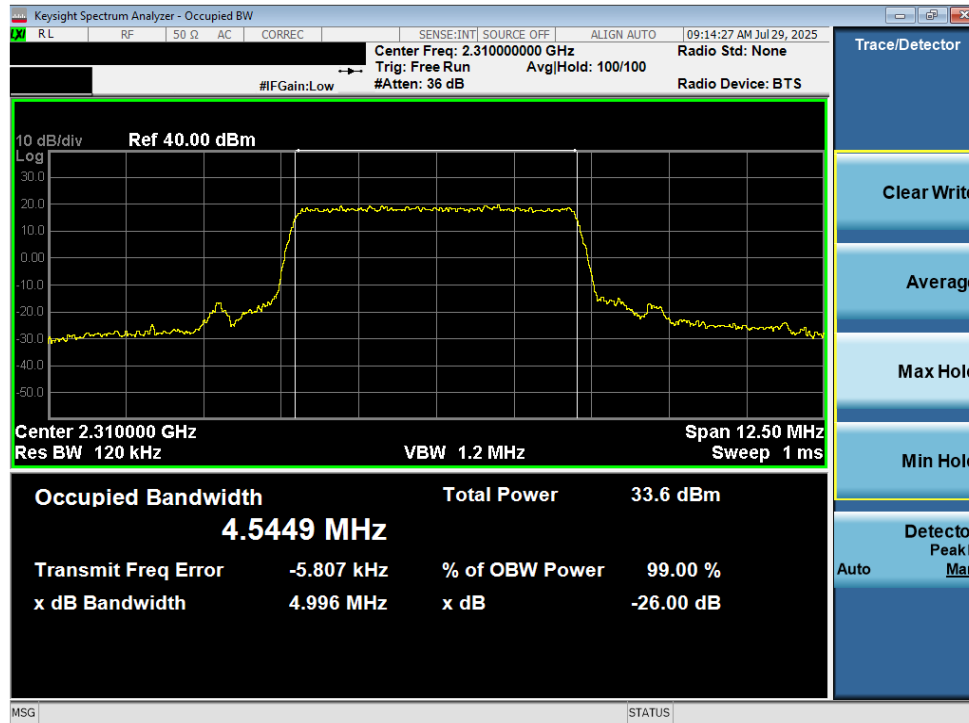
FCC ID: BCGA3462		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 17 of 318

V2.2 09/07/2023

LTE Band 30



Plot 7-1. Occupied Bandwidth Plot (LTE Band 30 - 5MHz QPSK - Full RB)

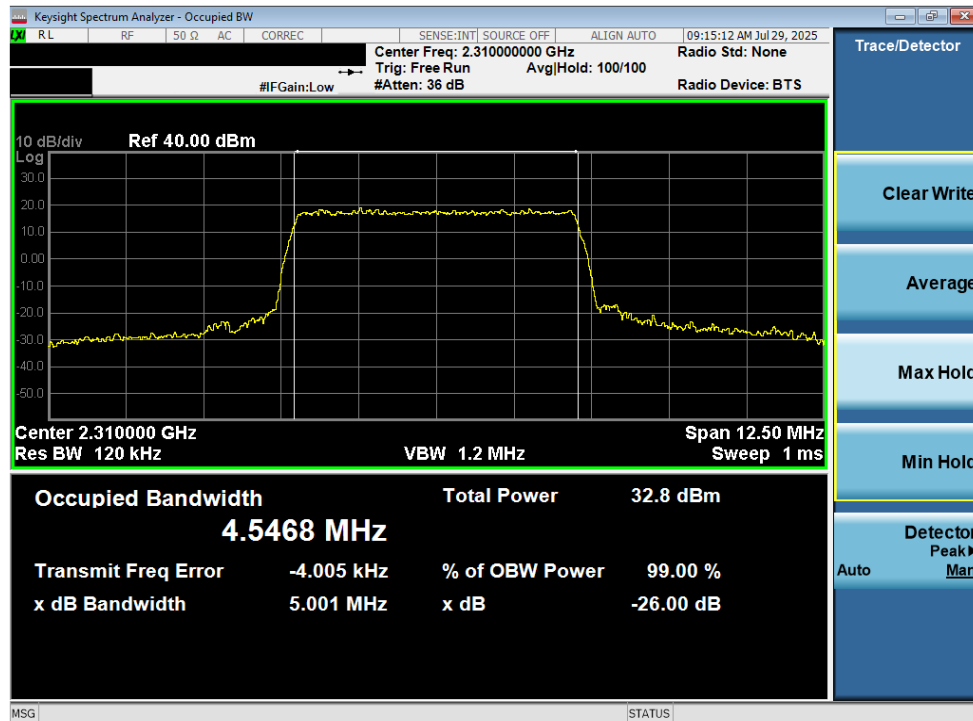


Plot 7-2. Occupied Bandwidth Plot (LTE Band 30 - 5MHz 16-QAM - Full RB)

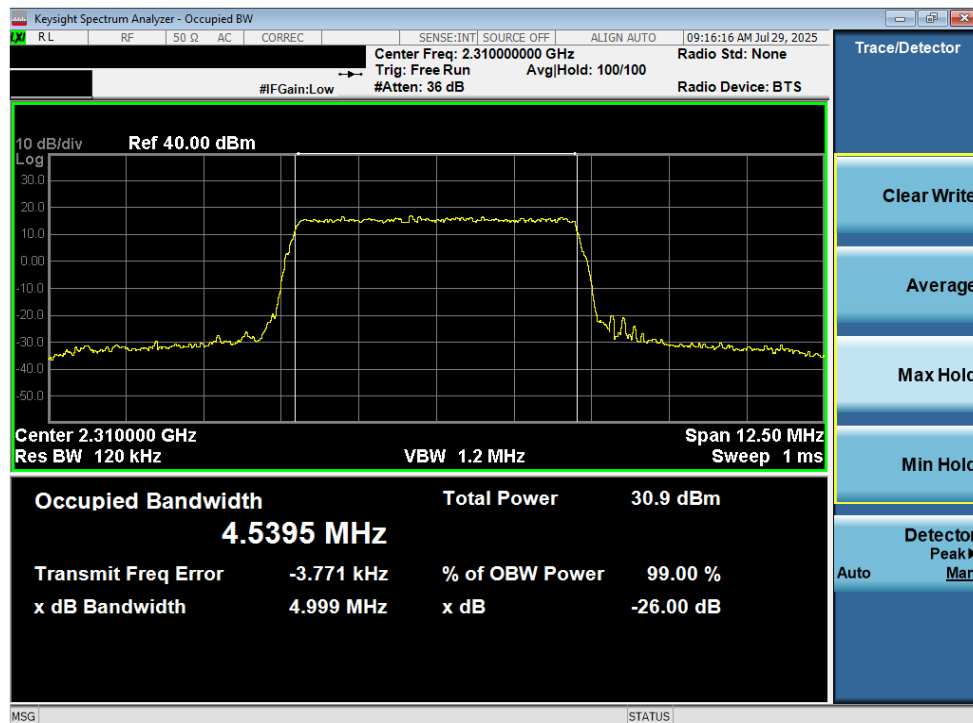
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 18 of 318

V2.2 09/07/2023

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Plot 7-3. Occupied Bandwidth Plot (LTE Band 30 - 5MHz 64-QAM - Full RB)

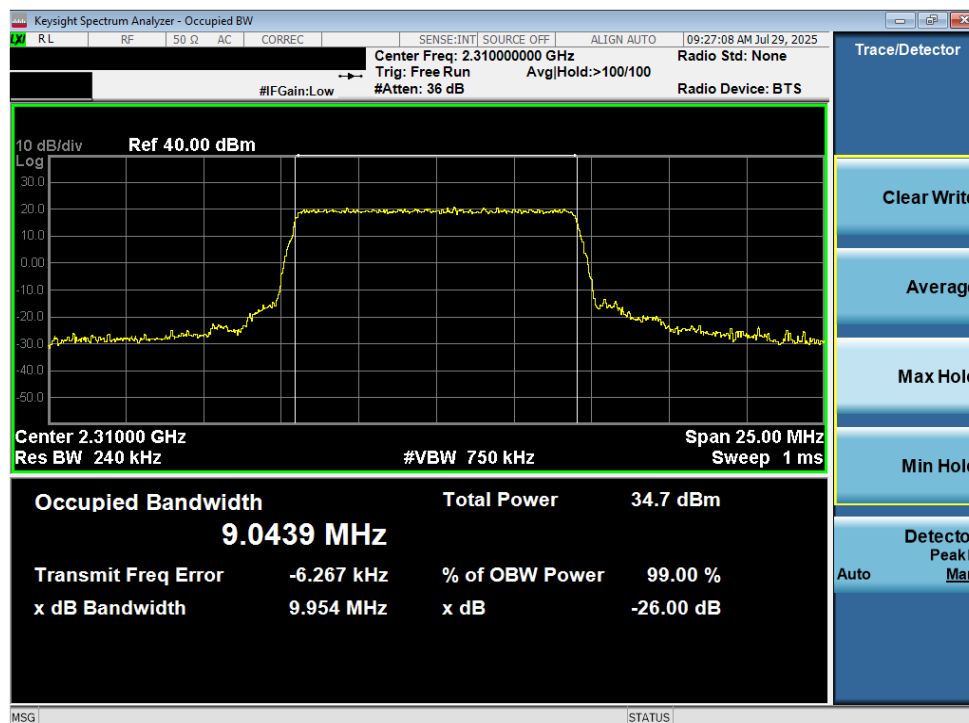


Plot 7-4. Occupied Bandwidth Plot (LTE Band 30 - 5MHz 256-QAM - Full RB)

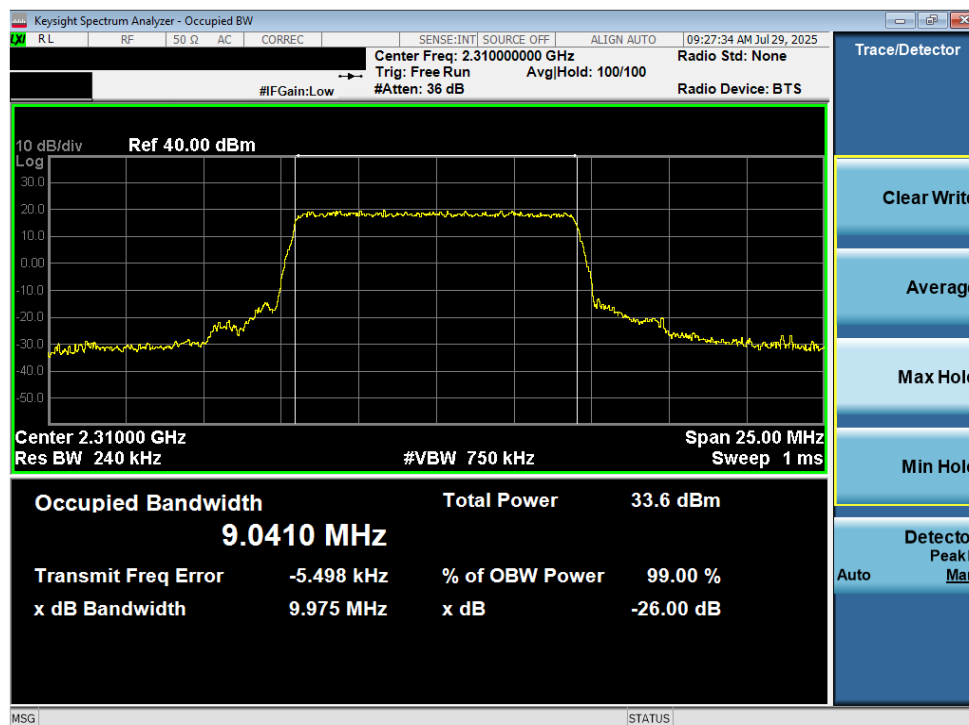
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 19 of 318

V2.2 09/07/2023

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Plot 7-5. Occupied Bandwidth Plot (LTE Band 30 - 10MHz QPSK - Full RB)

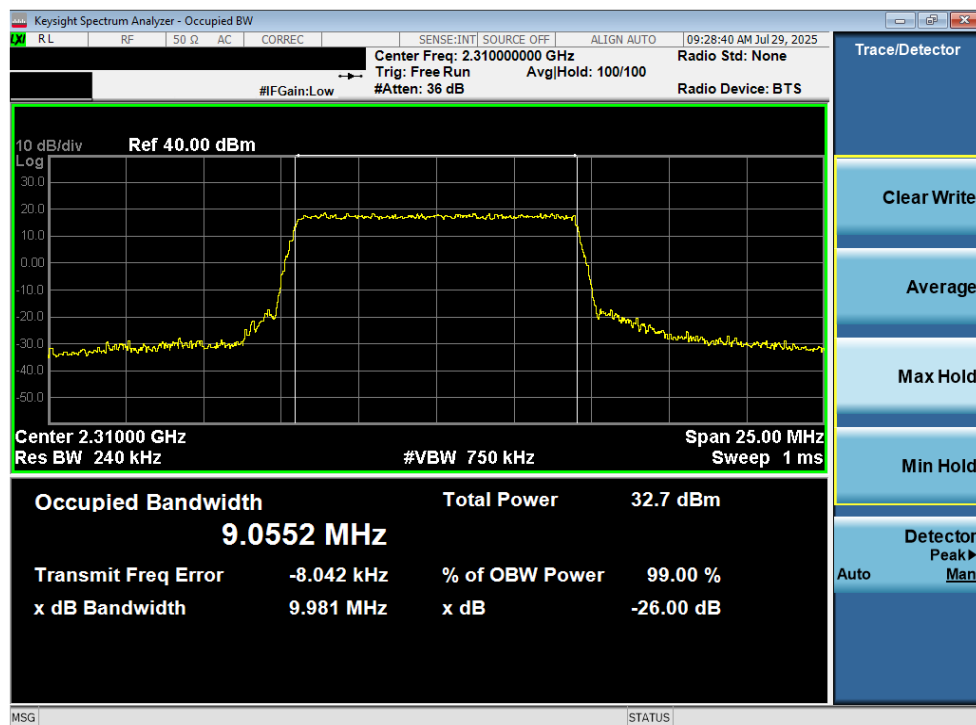


Plot 7-6. Occupied Bandwidth Plot (LTE Band 30 - 10MHz 16-QAM - Full RB)

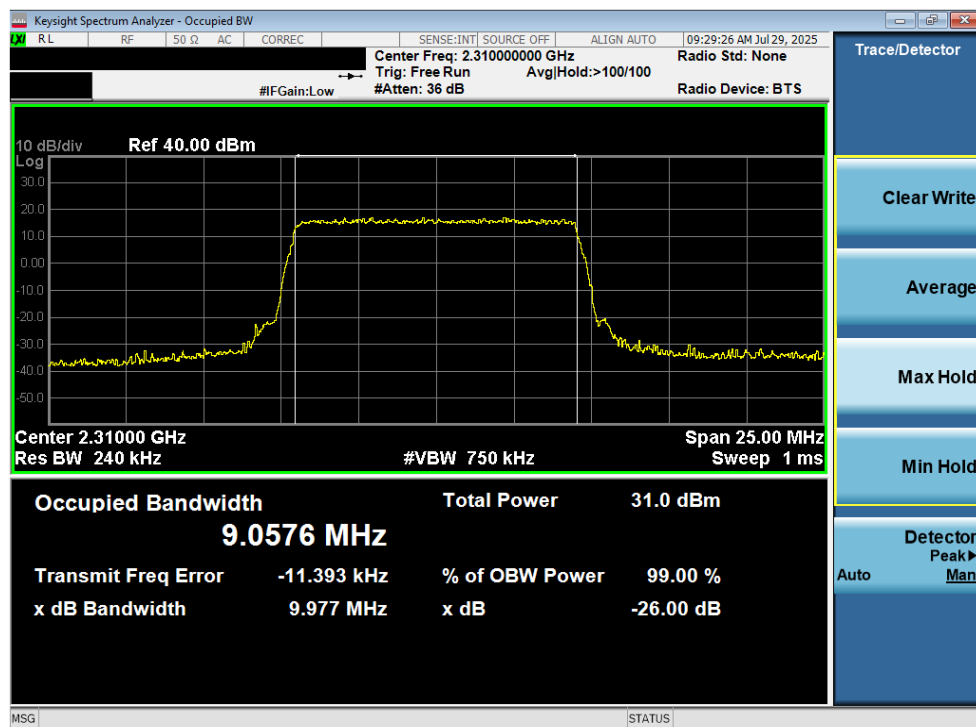
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 20 of 318

V2.2 09/07/2023

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Plot 7-7. Occupied Bandwidth Plot (LTE Band 30 - 10MHz 64-QAM - Full RB)

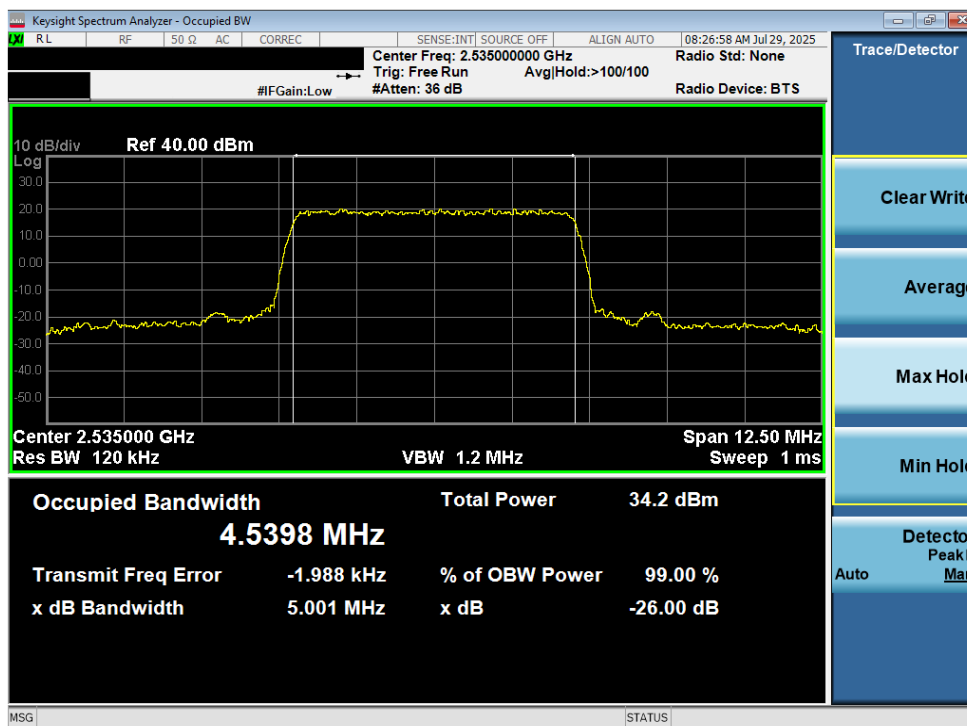


Plot 7-8. Occupied Bandwidth Plot (LTE Band 30 - 10MHz 256-QAM - Full RB)

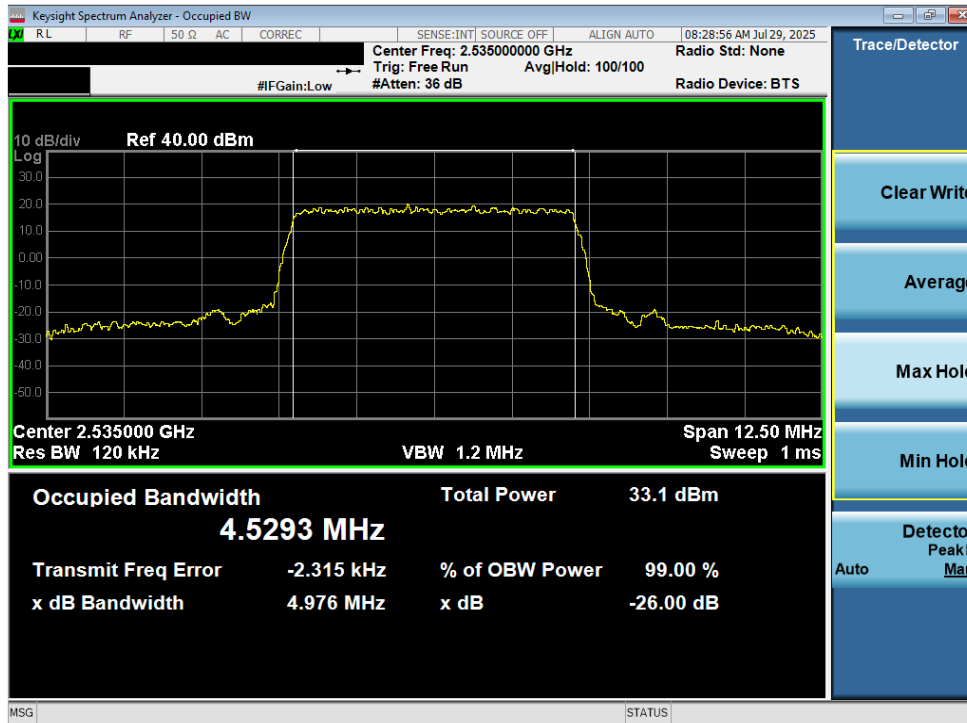
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 21 of 318

V2.2 09/07/2023

LTE Band 7



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

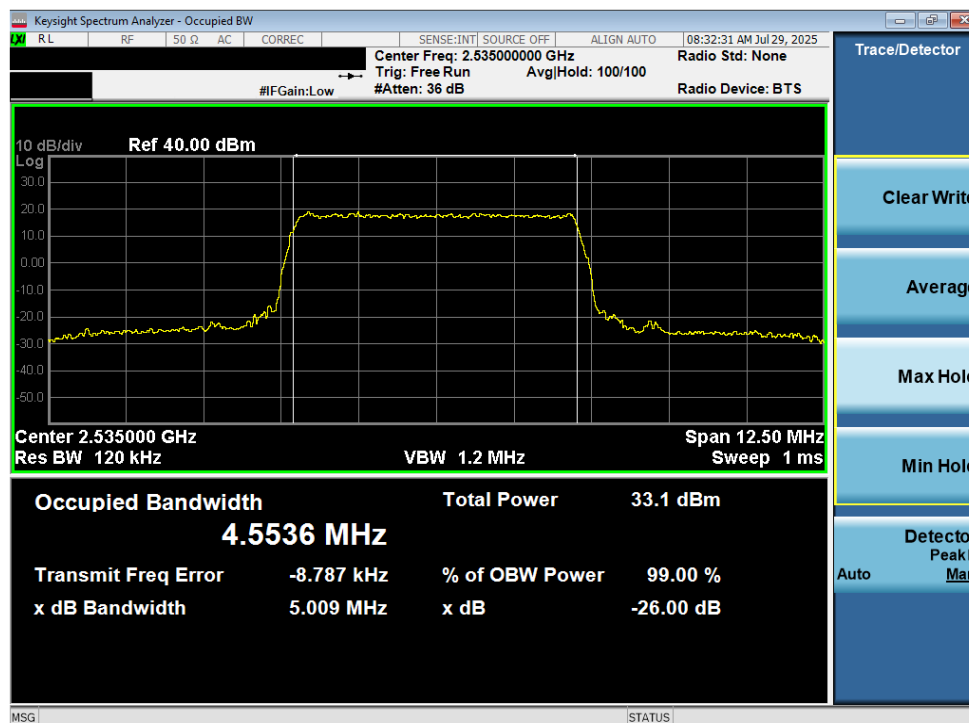


Plot 7-10. Occupied Bandwidth Plot (LTE Band 7 - 5MHz 16-QAM - Full RB)

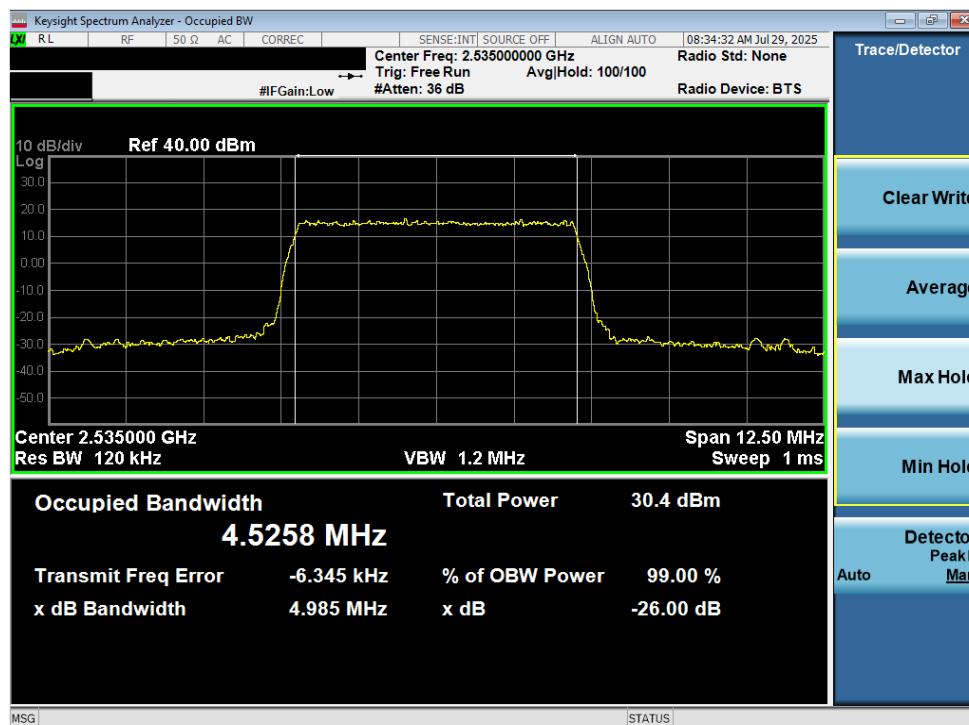
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 22 of 318

V2.2 09/07/2023

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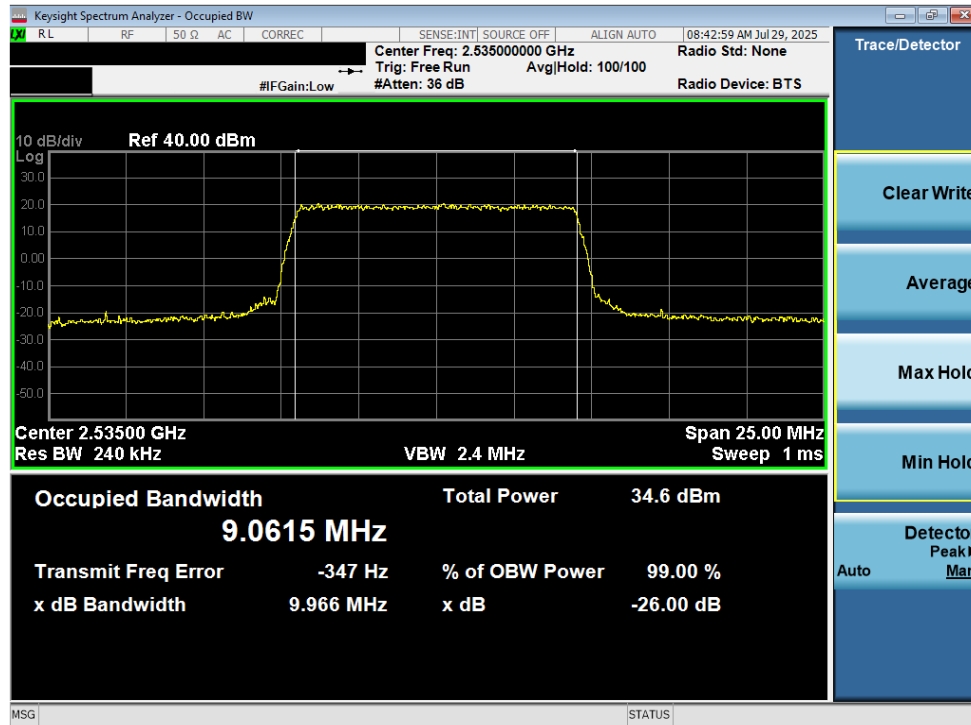
Plot 7-11. Occupied Bandwidth Plot (LTE Band 7 - 5MHz 64-QAM - Full RB)



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

FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 23 of 318

V2.2 09/07/2023



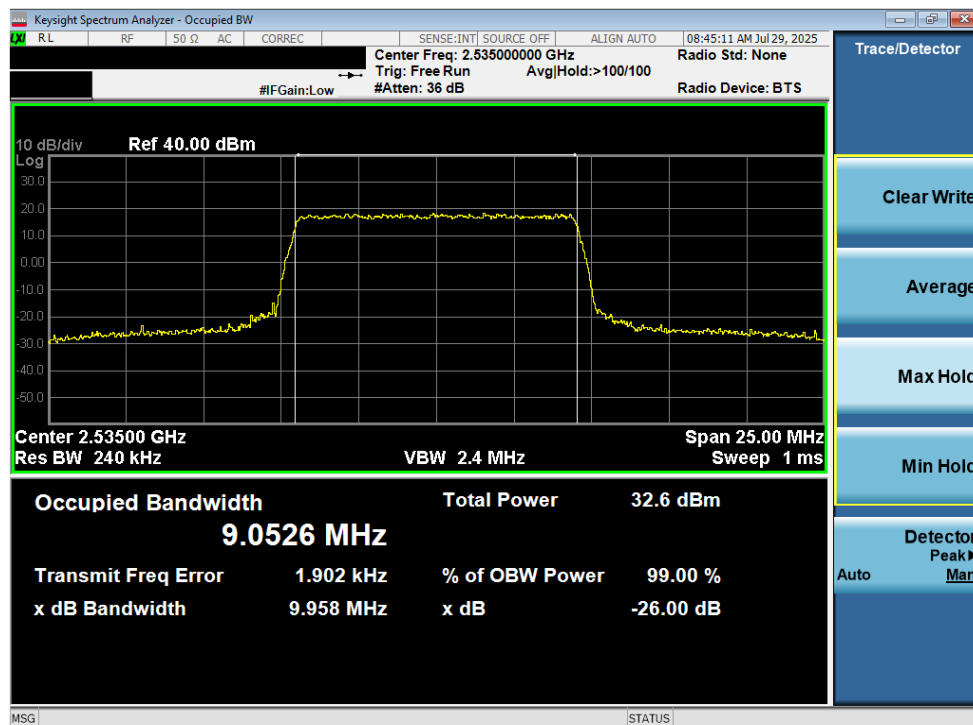
Plot 7-13. Occupied Bandwidth Plot (LTE Band 7 - 10MHz QPSK - Full RB)



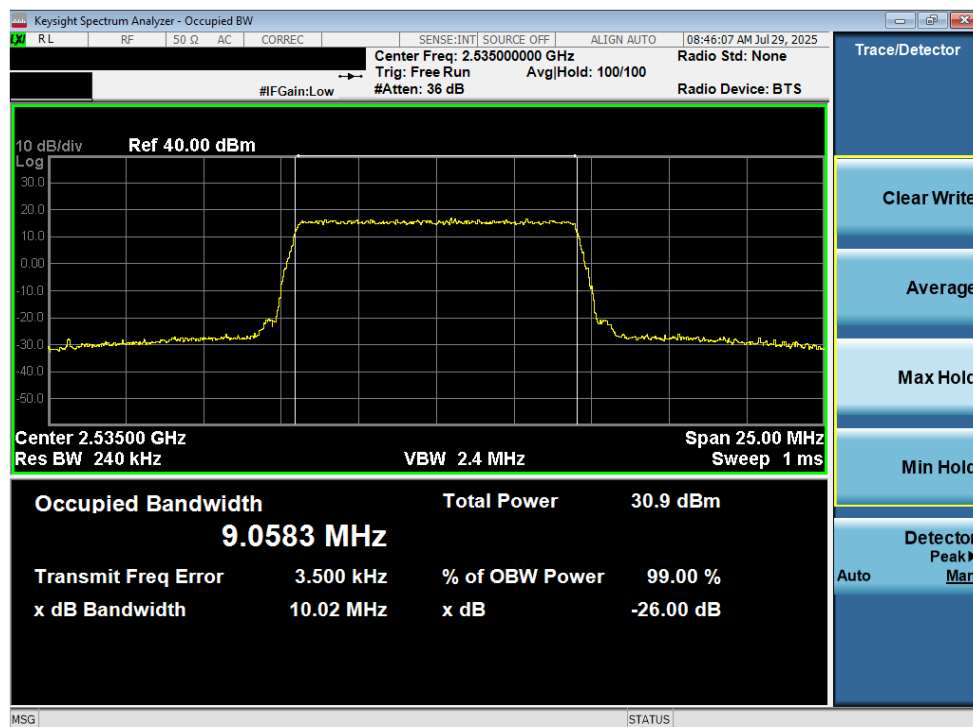
Plot 7-14. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 24 of 318

V2.2 09/07/2023



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

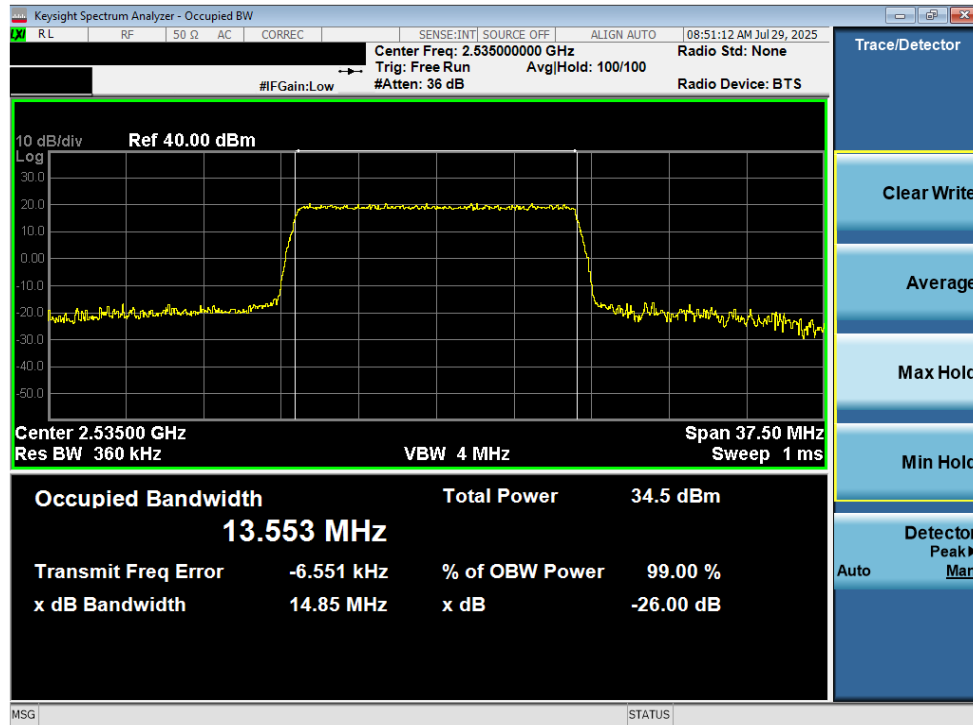


Plot 7-16. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 256-QAM - Full RB)

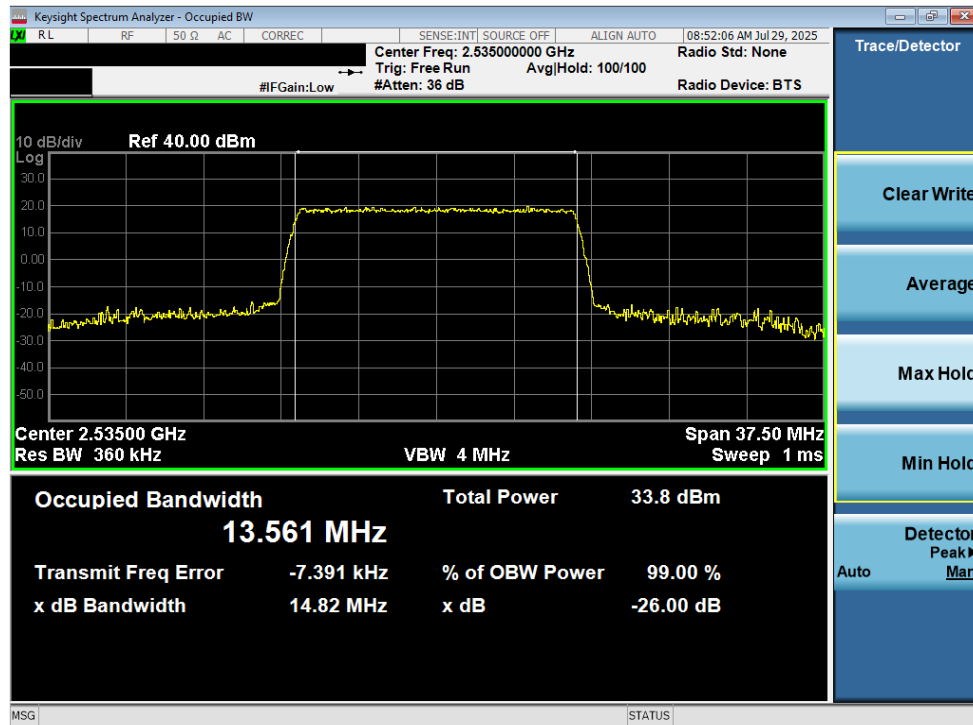
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 25 of 318

V2.2 09/07/2023

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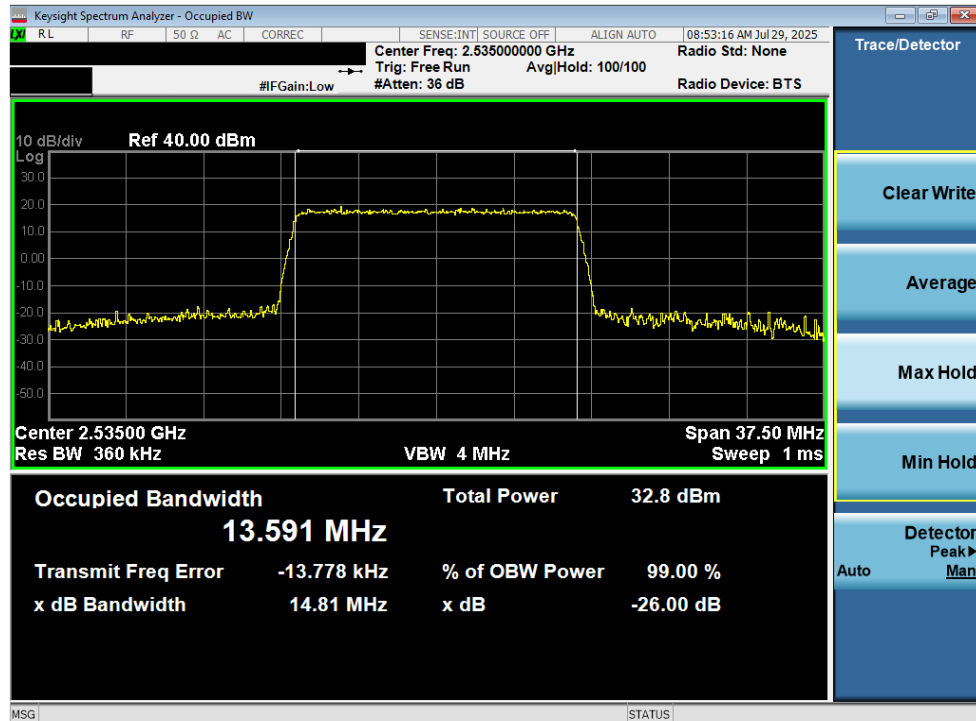
Plot 7-17. Occupied Bandwidth Plot (LTE Band 7 - 15MHz QPSK - Full RB)



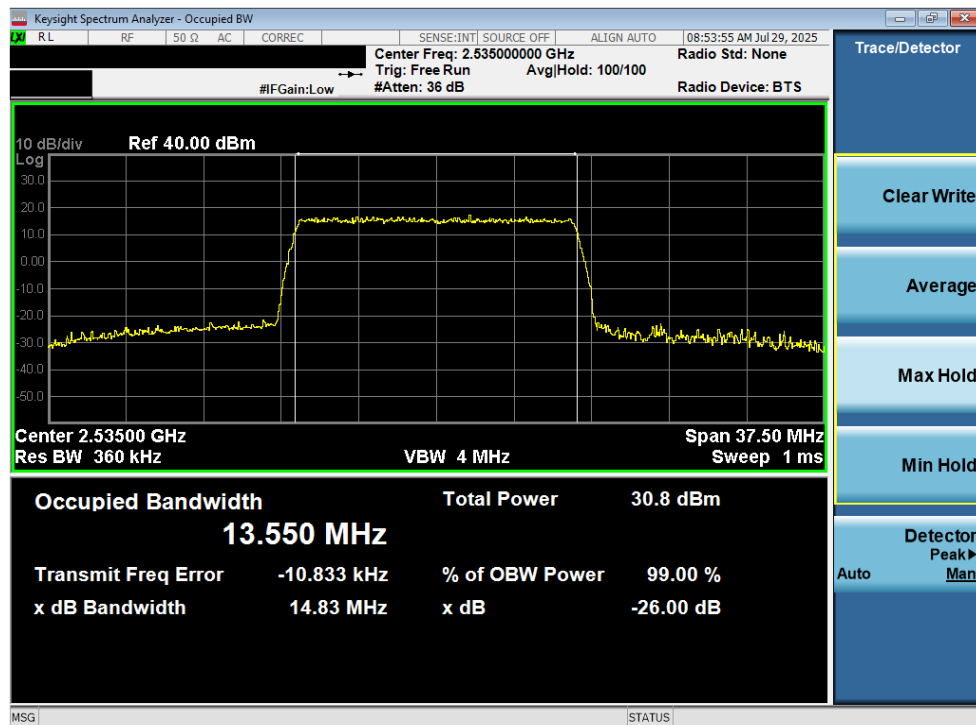
Plot 7-18. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 26 of 318

V2.2 09/07/2023



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

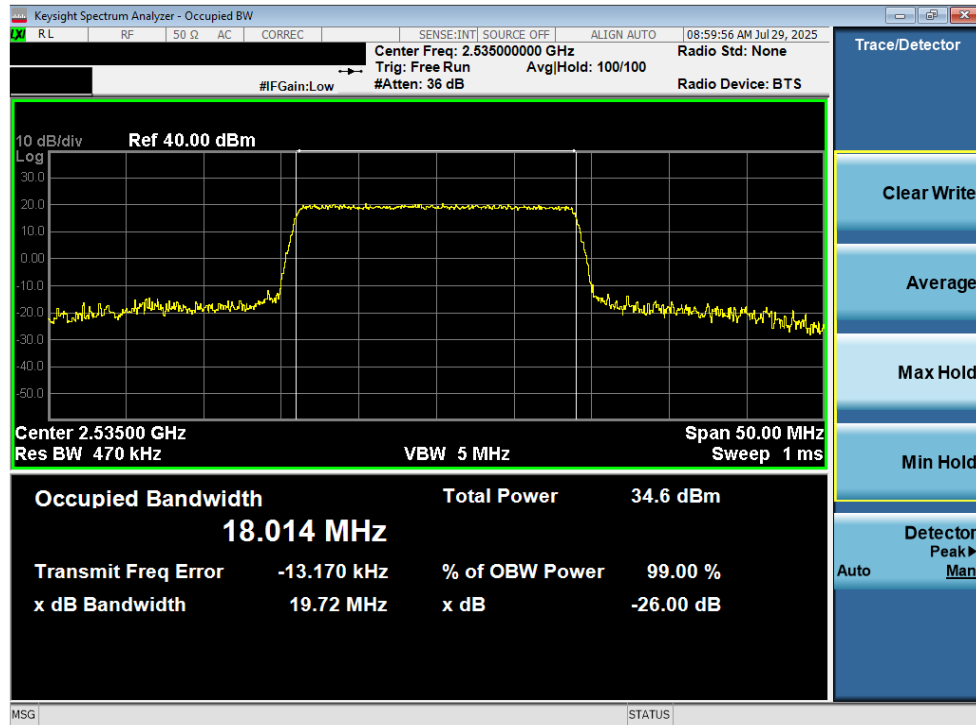


Plot 7-20. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 256-QAM - Full RB)

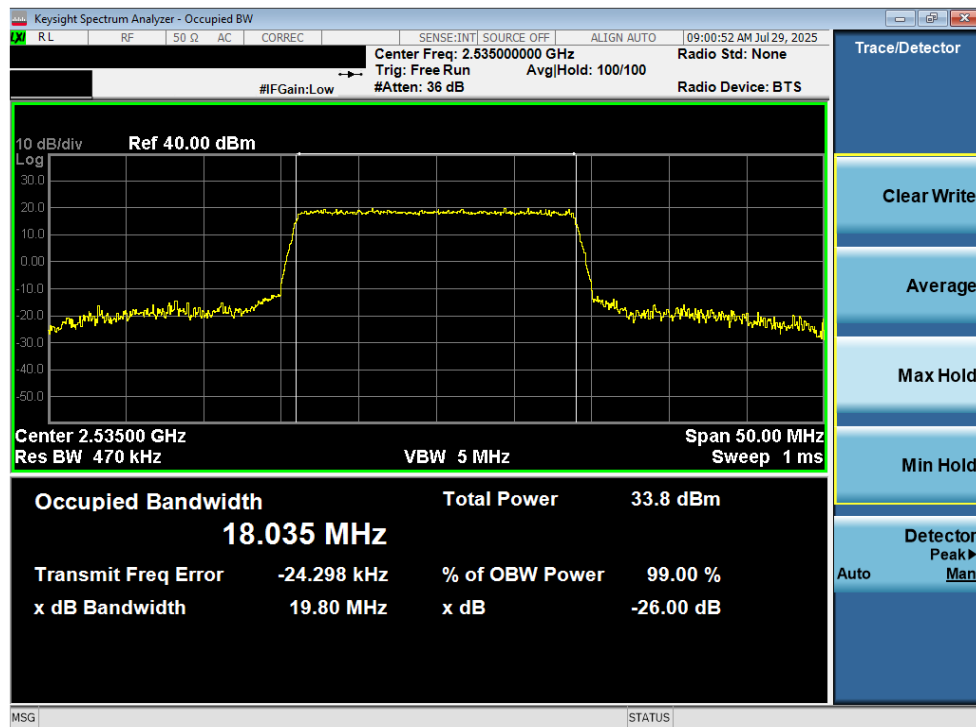
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 27 of 318

V2.2 09/07/2023

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Plot 7-21. Occupied Bandwidth Plot (LTE Band 7 - 20MHz QPSK - Full RB)

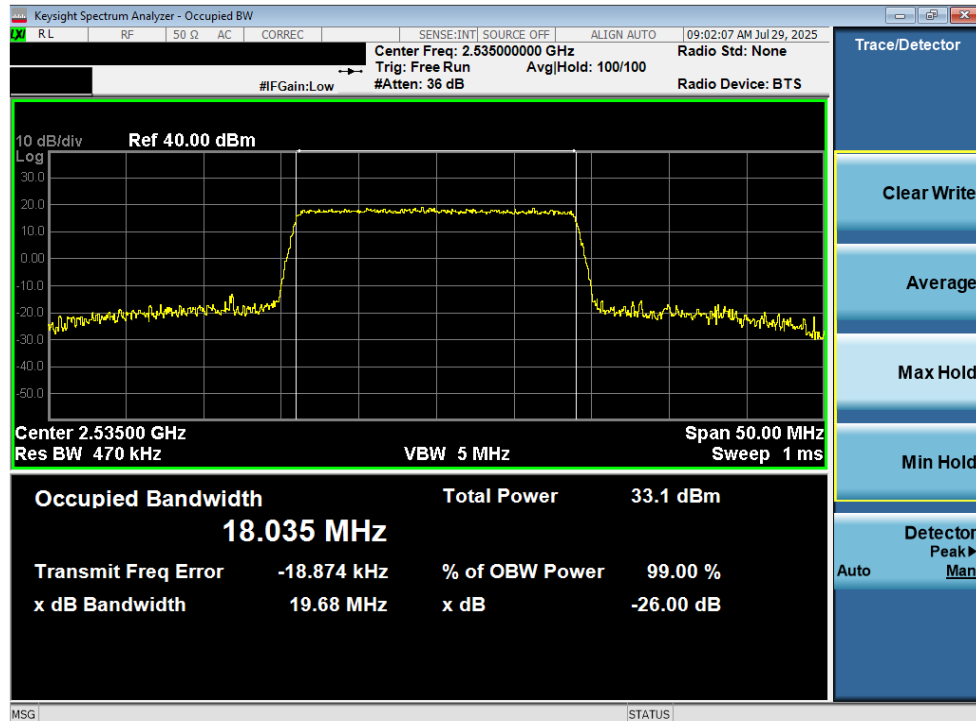


Plot 7-22. Occupied Bandwidth Plot (LTE Band 7 - 20MHz 16-QAM - Full RB)

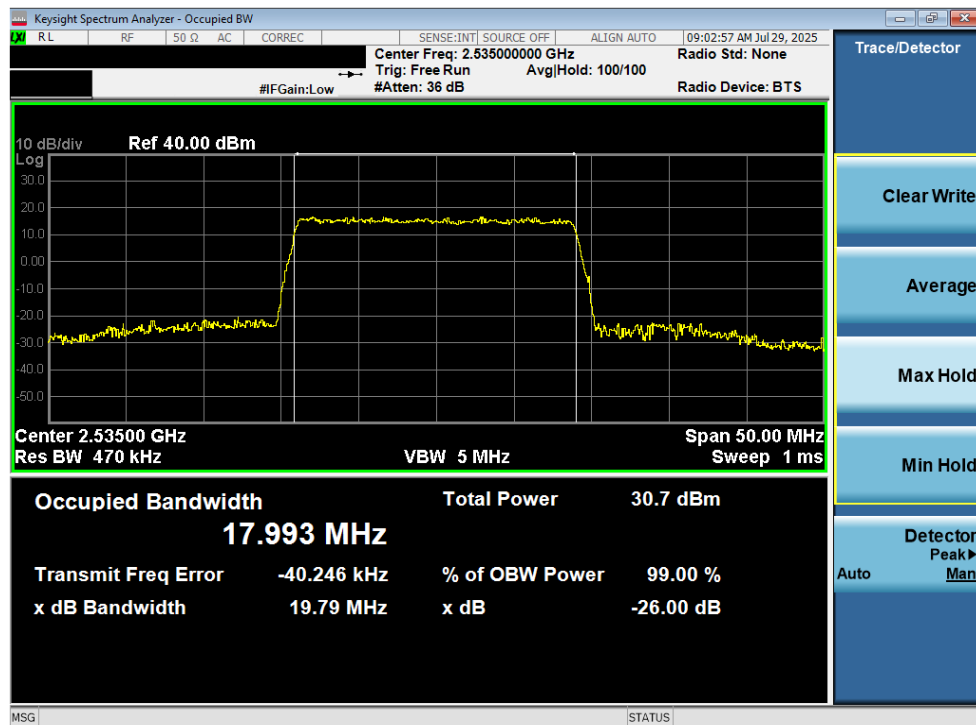
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 28 of 318

V2.2 09/07/2023

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



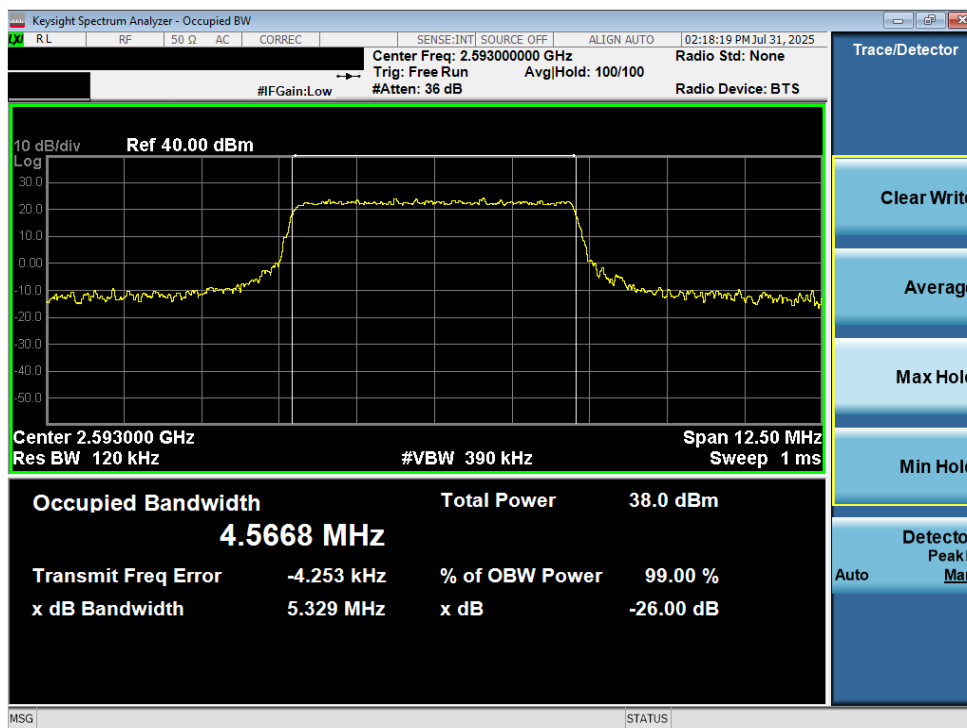
Plot 7-24. Occupied Bandwidth Plot (LTE Band 7 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 29 of 318

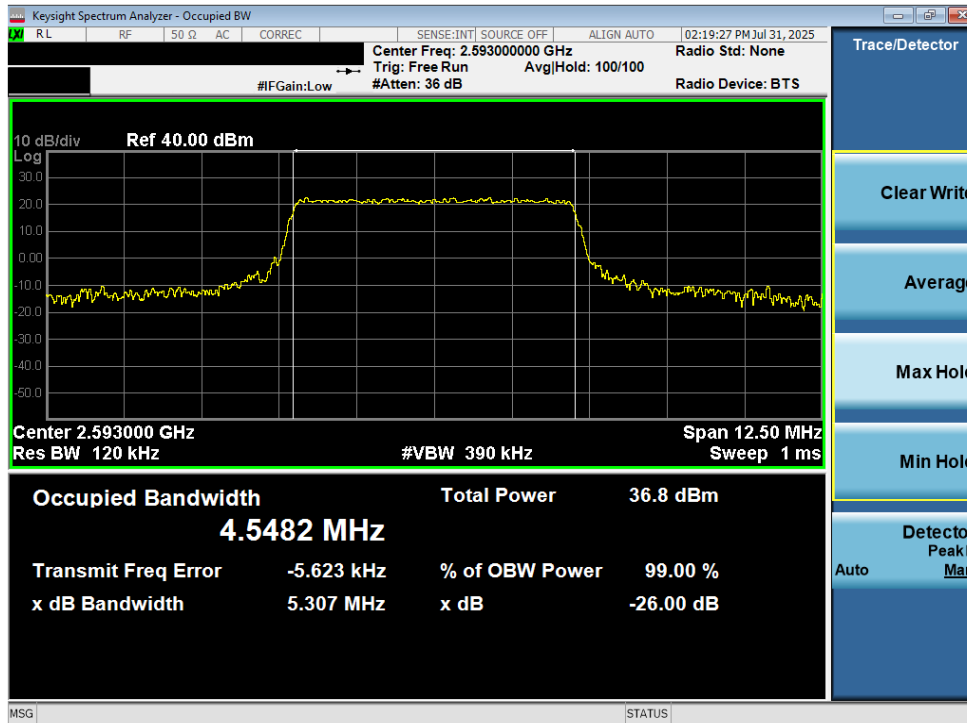
V2.2 09/07/2023

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LTE Band 41



Plot 7-25. Occupied Bandwidth Plot (LTE Band 41 - 5MHz QPSK - Full RB)

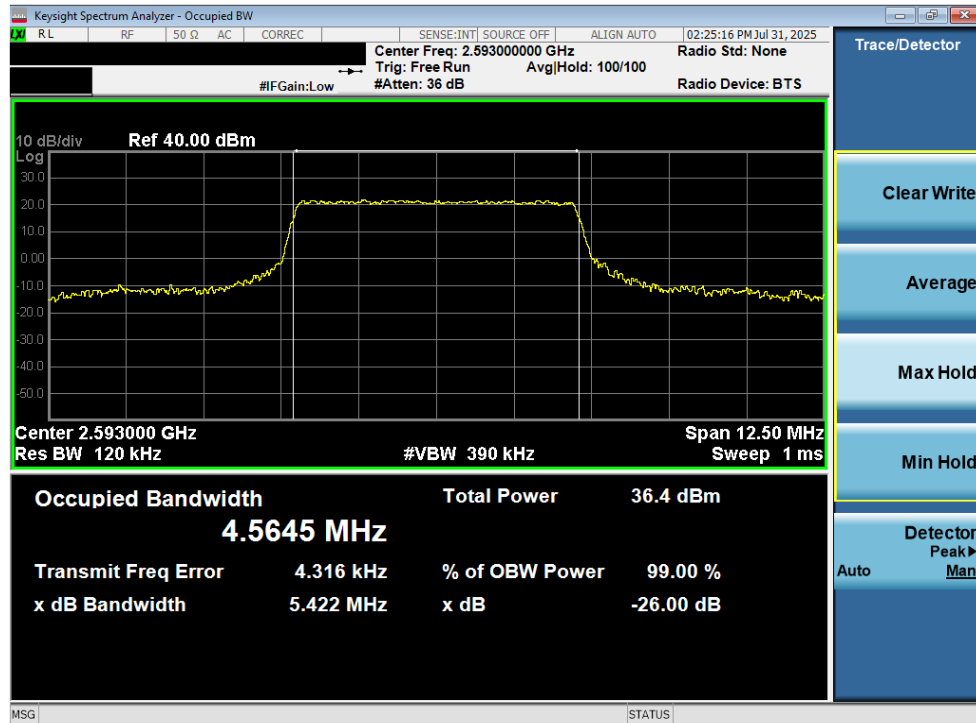


Plot 7-26. Occupied Bandwidth Plot (LTE Band 41 - 5MHz 16-QAM - Full RB)

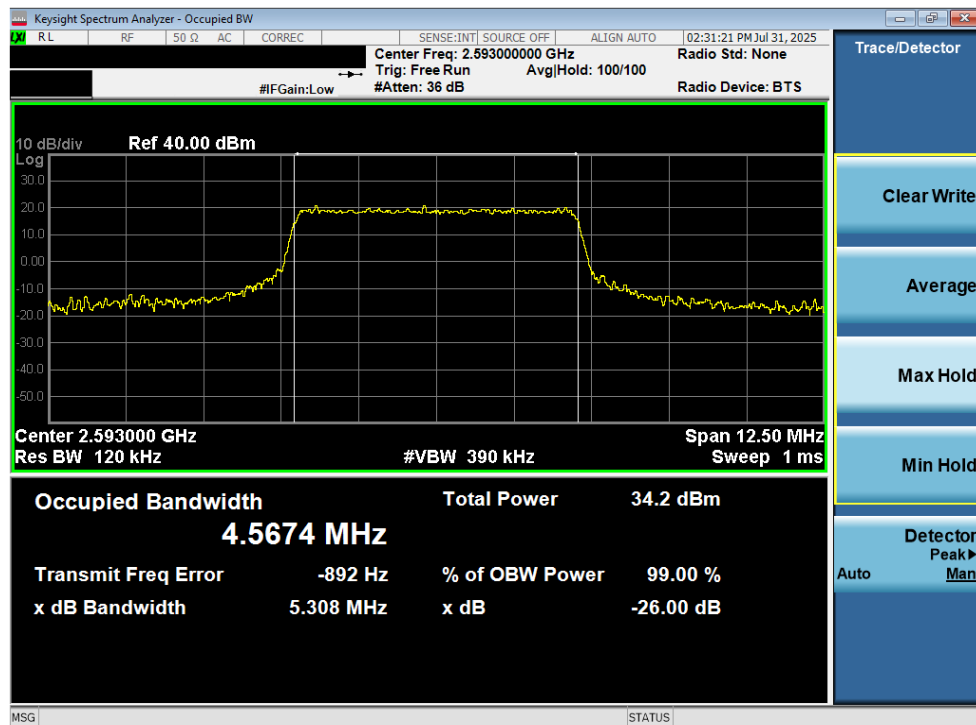
FCC ID: BCGA3462		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 30 of 318

V2.2 09/07/2023

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Plot 7-27. Occupied Bandwidth Plot (LTE Band 41 - 5MHz 64-QAM - Full RB)

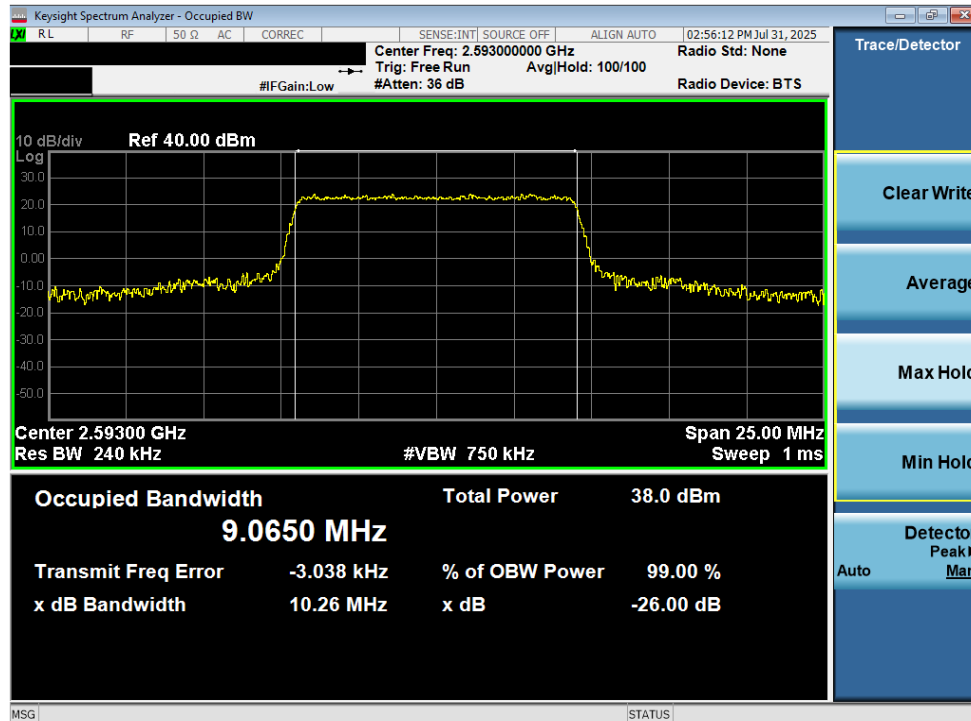


Plot 7-28. Occupied Bandwidth Plot (LTE Band 41 - 5MHz 256-QAM - Full RB)

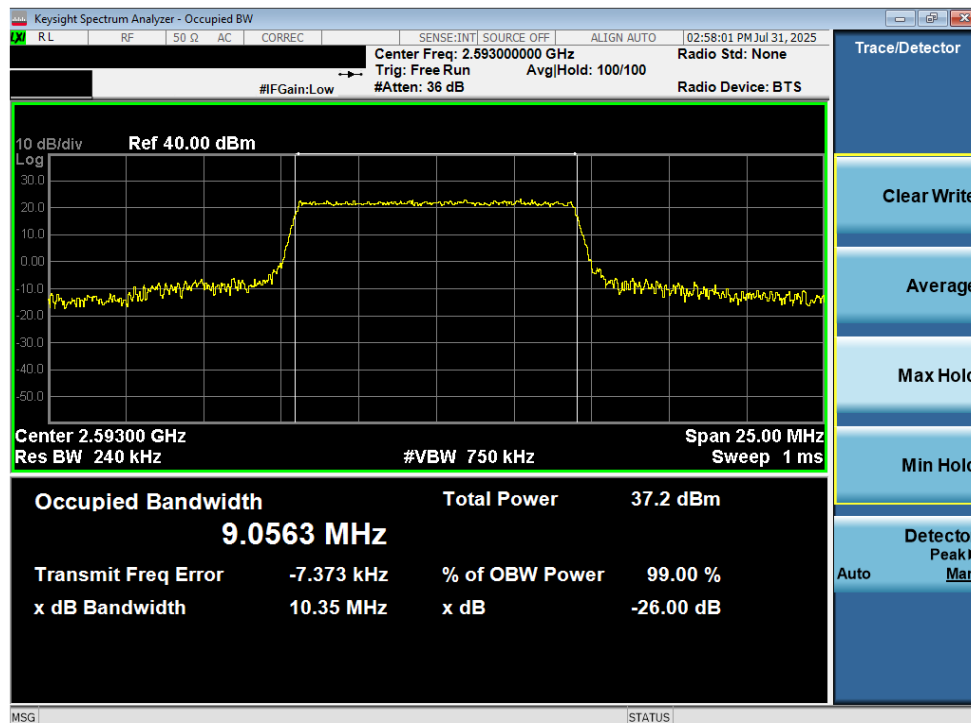
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 31 of 318

V2.2 09/07/2023

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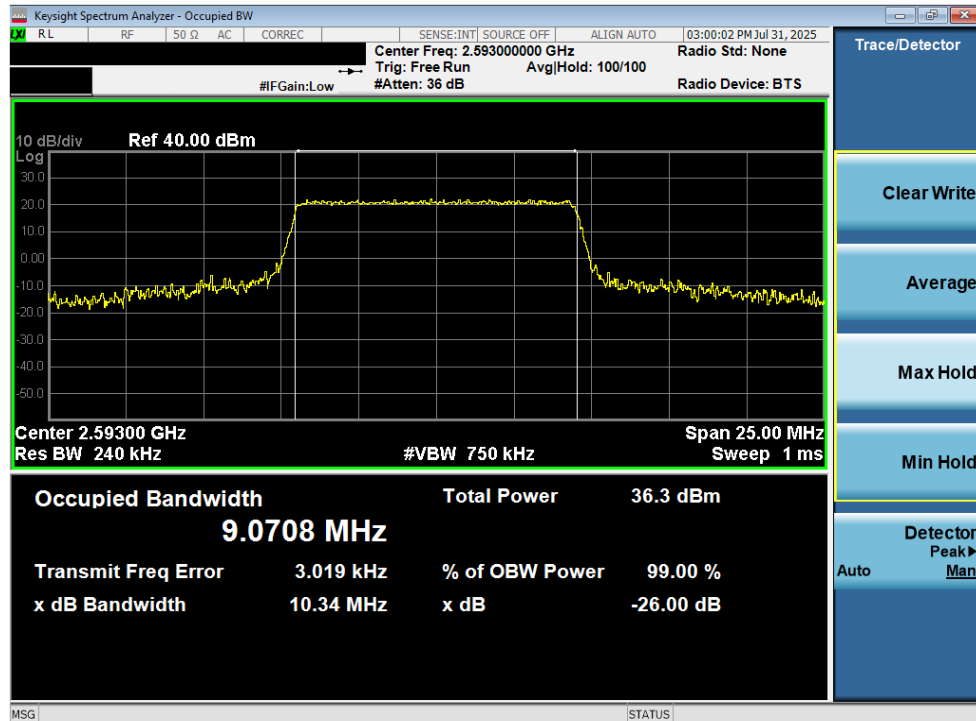
Plot 7-29. Occupied Bandwidth Plot (LTE Band 41 - 10MHz QPSK - Full RB)



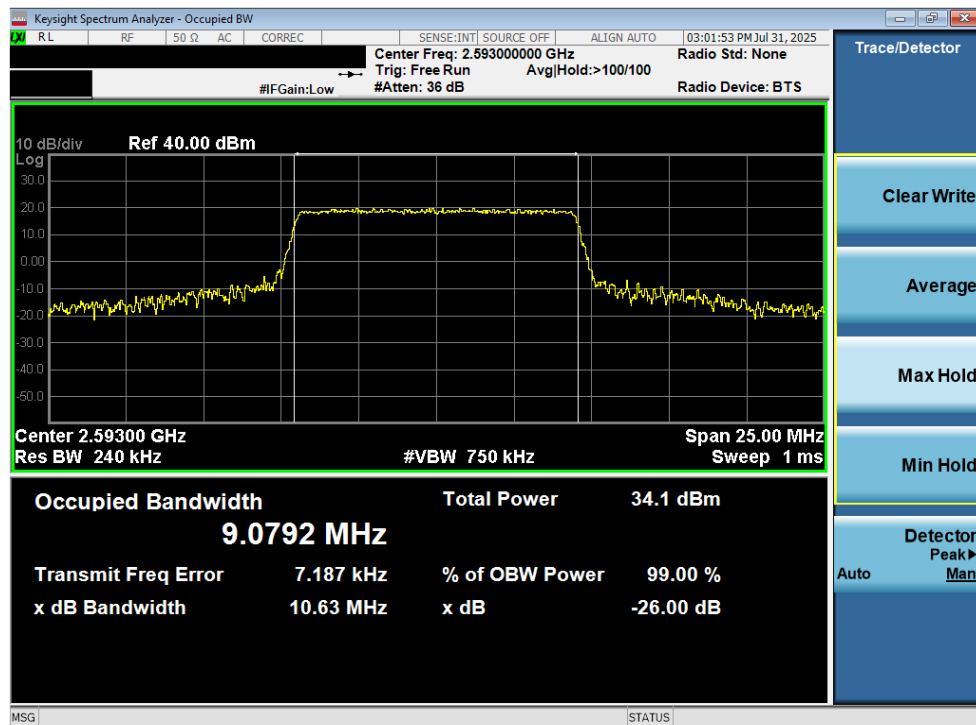
Plot 7-30. Occupied Bandwidth Plot (LTE Band 41 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 32 of 318

V2.2 09/07/2023



Plot 7-31. Occupied Bandwidth Plot (LTE Band 41 - 10MHz 64-QAM - Full RB)

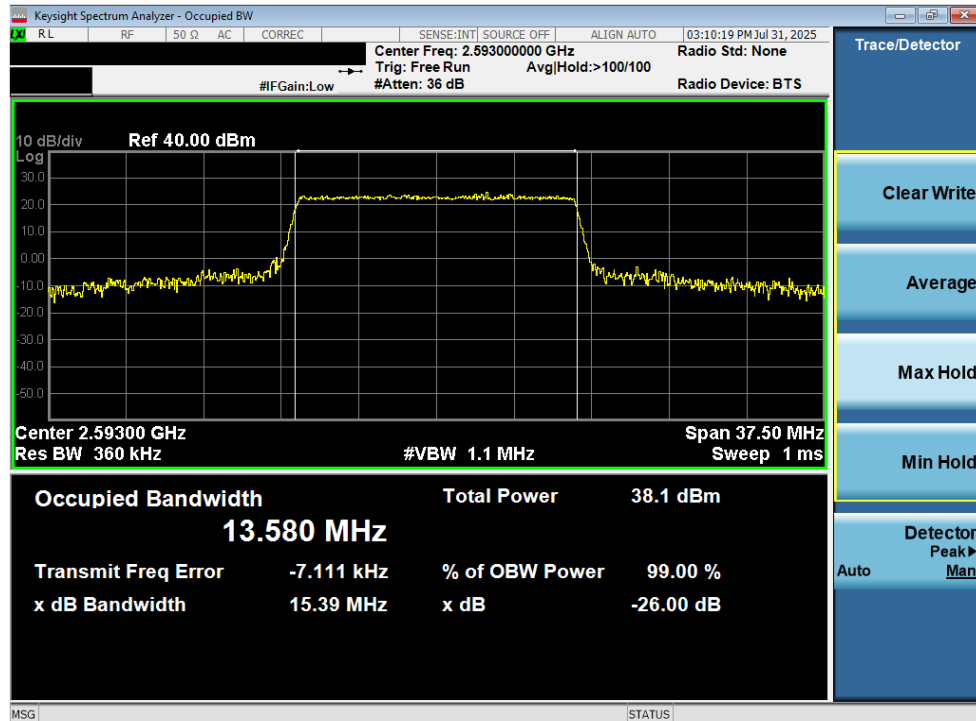


Plot 7-32. Occupied Bandwidth Plot (LTE Band 41 - 10MHz 256-QAM - Full RB)

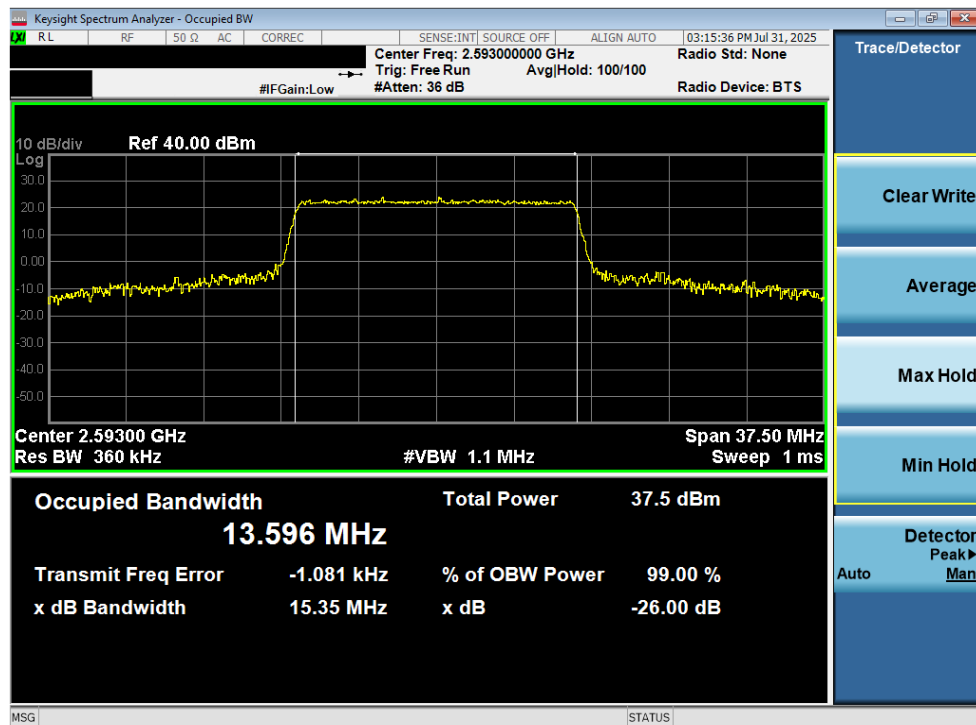
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 33 of 318

V2.2 09/07/2023

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Plot 7-33. Occupied Bandwidth Plot (LTE Band 41 - 15MHz QPSK - Full RB)

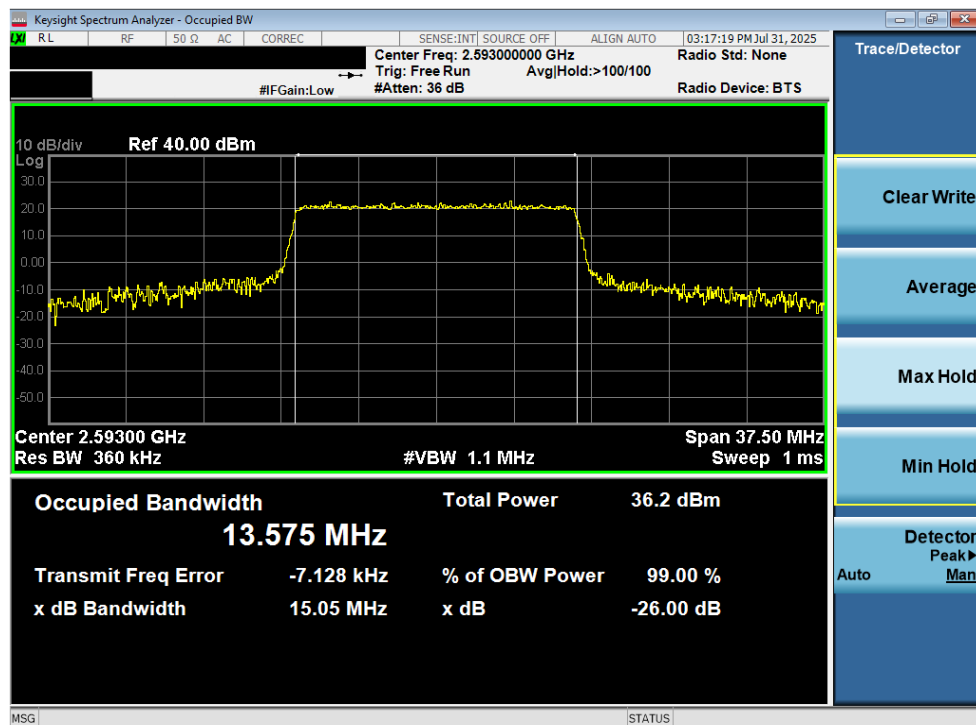


Plot 7-34. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 16-QAM - Full RB)

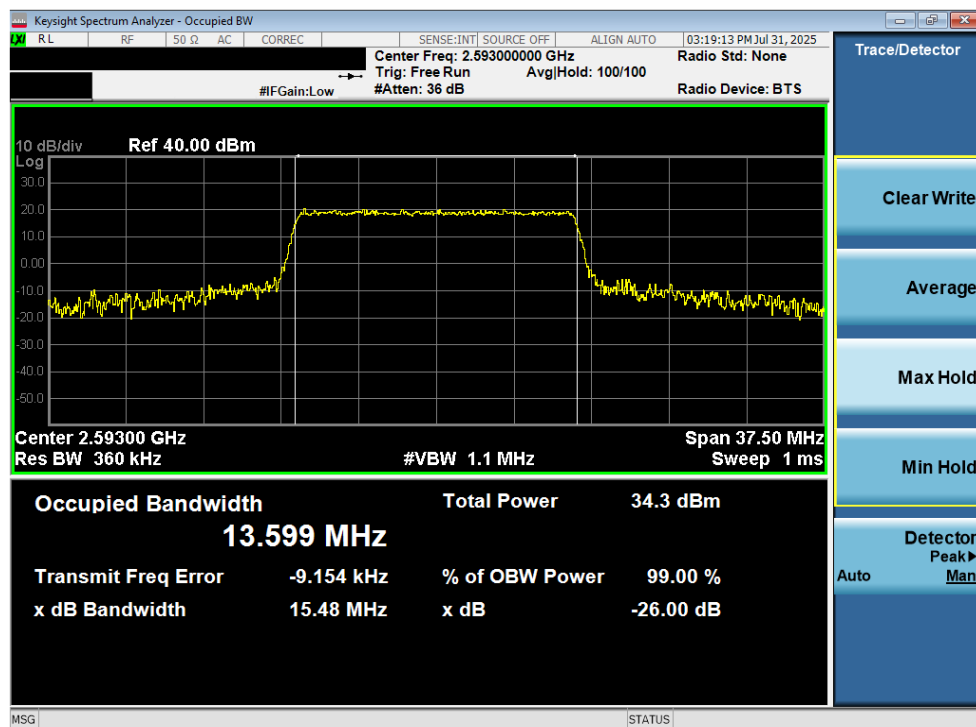
FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 34 of 318

V2.2 09/07/2023

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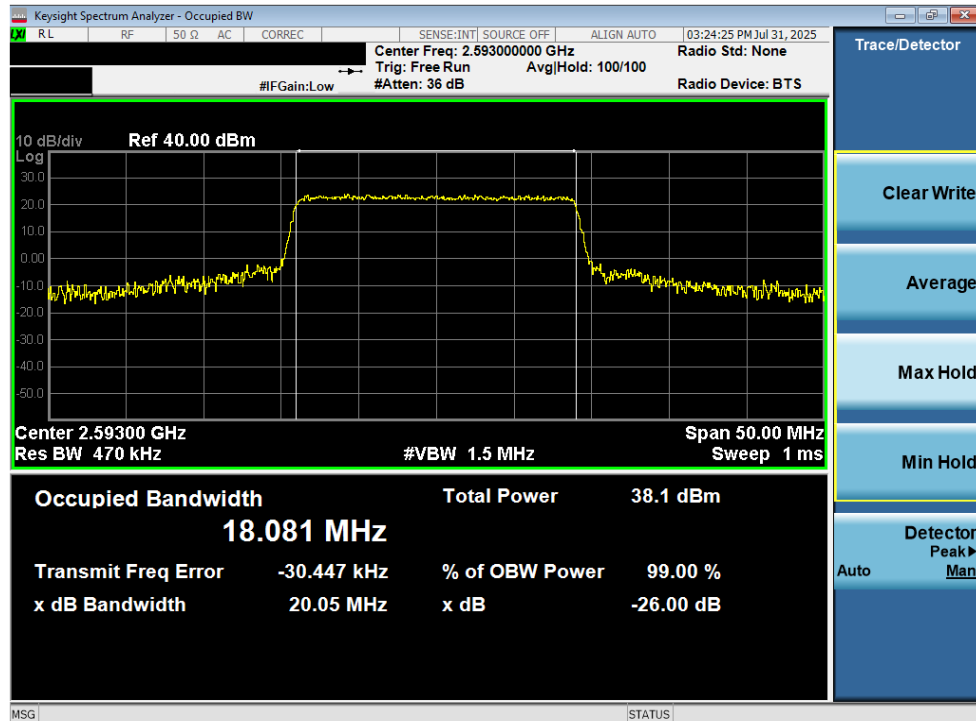
Plot 7-35. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 64-QAM - Full RB)



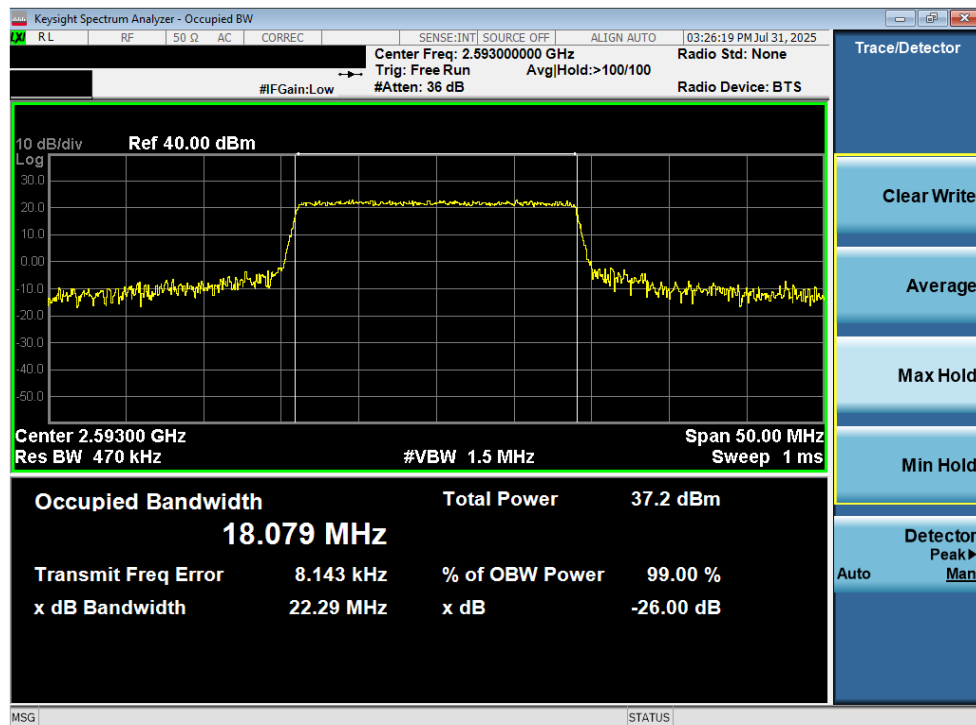
Plot 7-36. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 35 of 318

V2.2 09/07/2023



Plot 7-37. Occupied Bandwidth Plot (LTE Band 41 - 20MHz QPSK - Full RB)

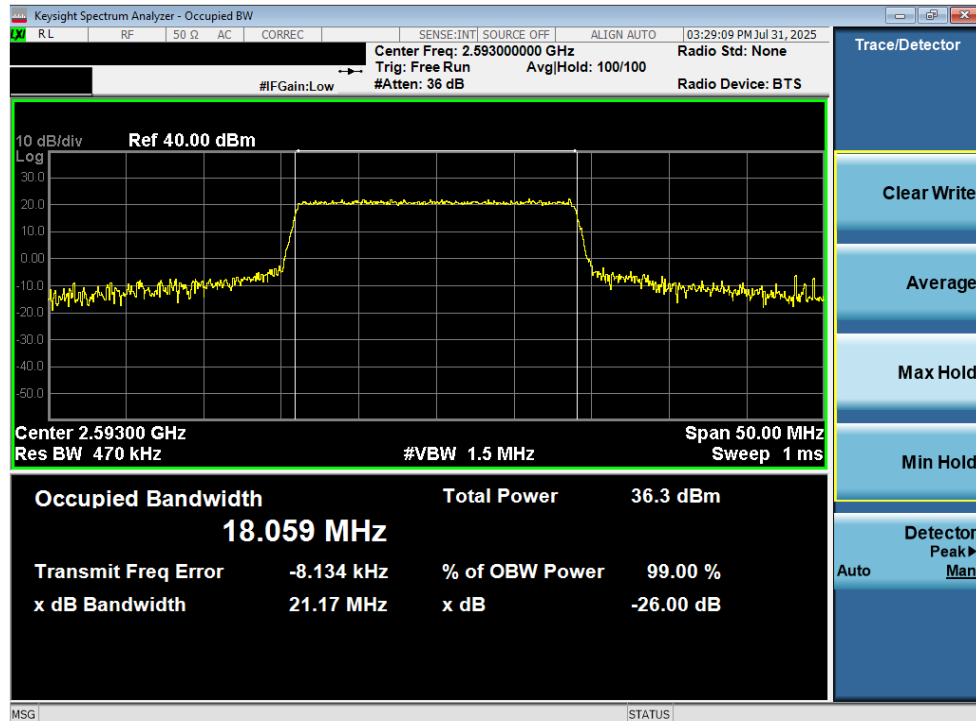


Plot 7-38. Occupied Bandwidth Plot (LTE Band 41 - 20MHz 16-QAM - Full RB)

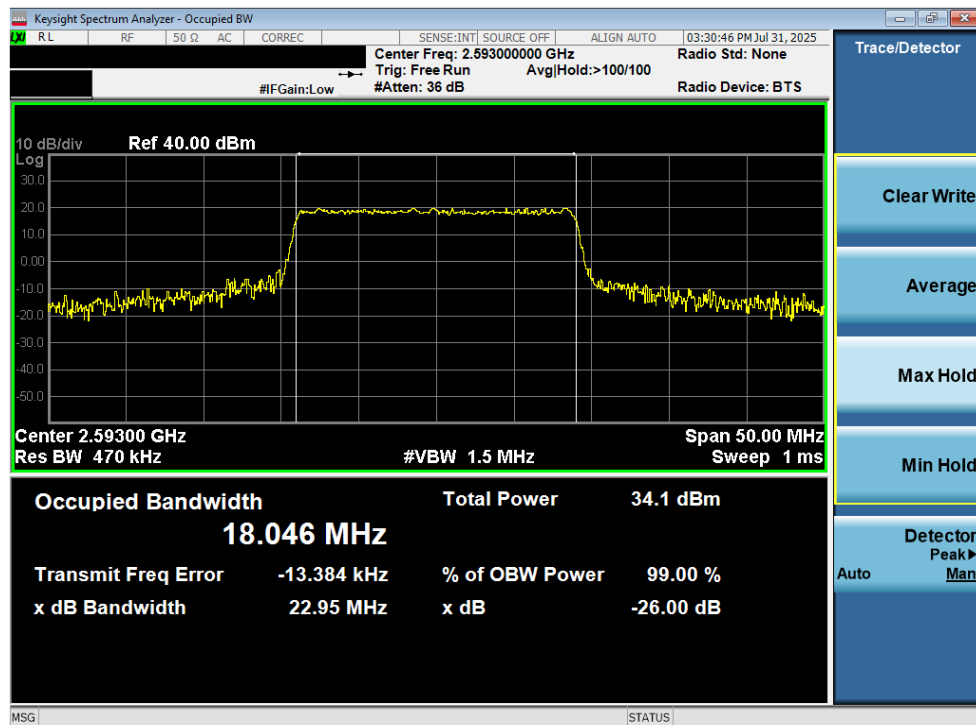
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 36 of 318

V2.2 09/07/2023

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Plot 7-39. Occupied Bandwidth Plot (LTE Band 41 - 20MHz 64-QAM - Full RB)

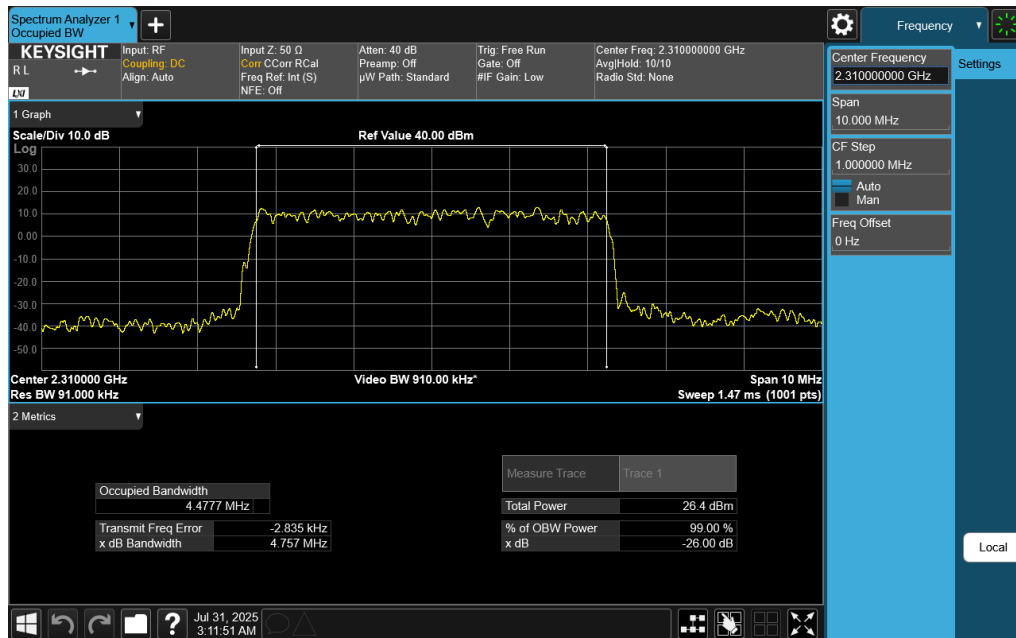


Plot 7-40. Occupied Bandwidth Plot (LTE Band 41 - 20MHz 256-QAM - Full RB)

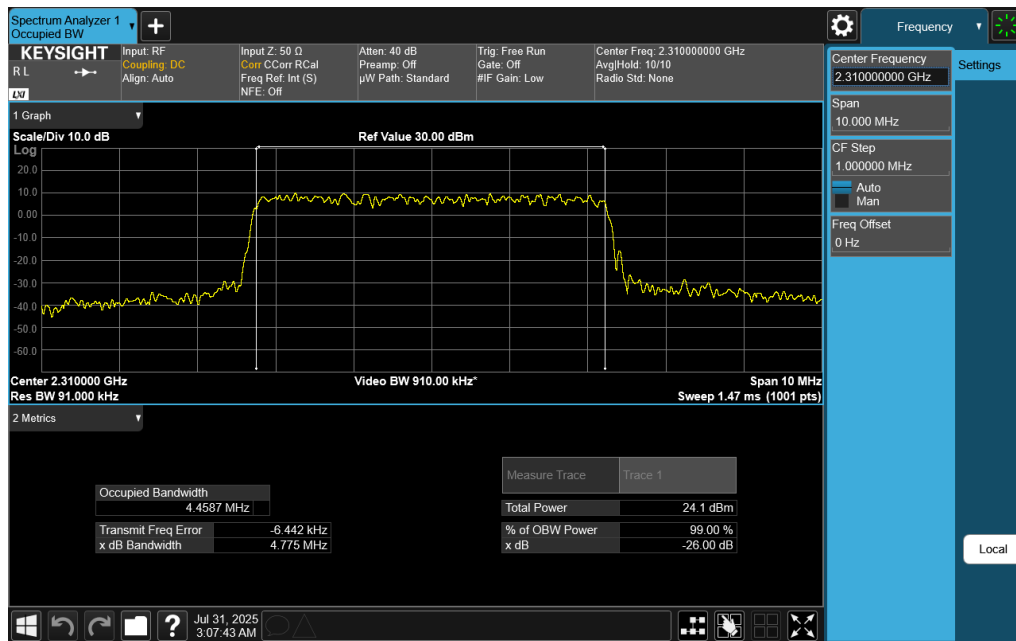
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 37 of 318

V2.2 09/07/2023

NR Band n30



Plot 7-41. Occupied Bandwidth Plot (NR Band n30 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

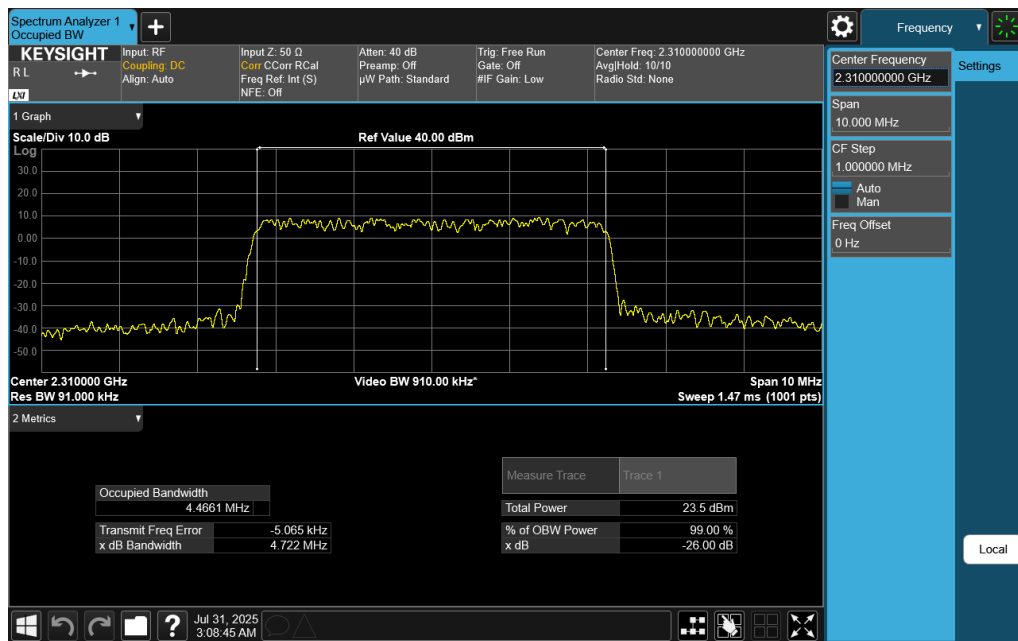
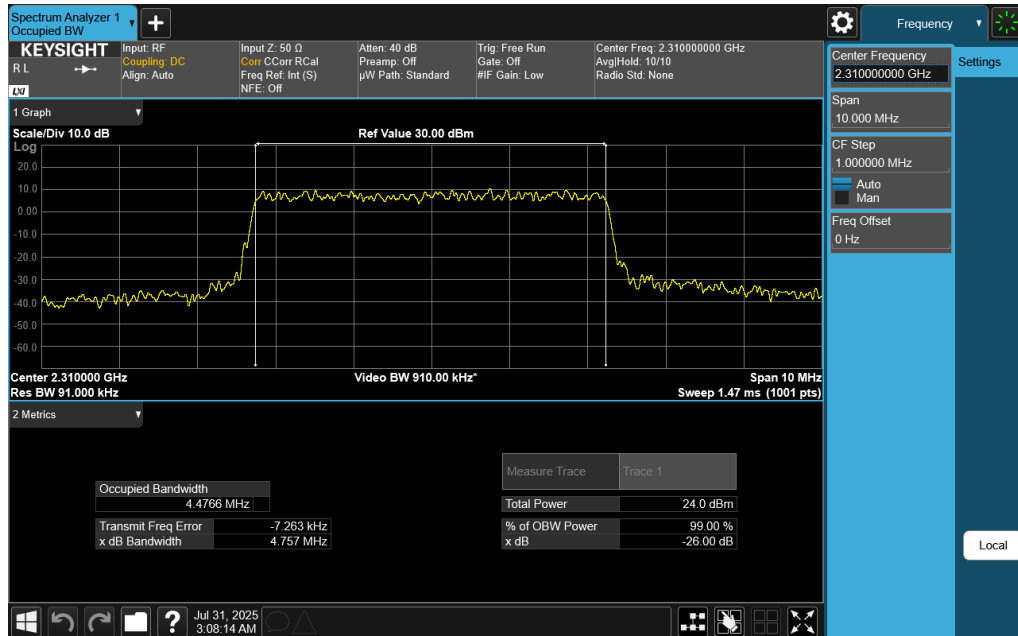


Plot 7-42. Occupied Bandwidth Plot (NR Band n30 - 5MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 38 of 318

V2.2 09/07/2023

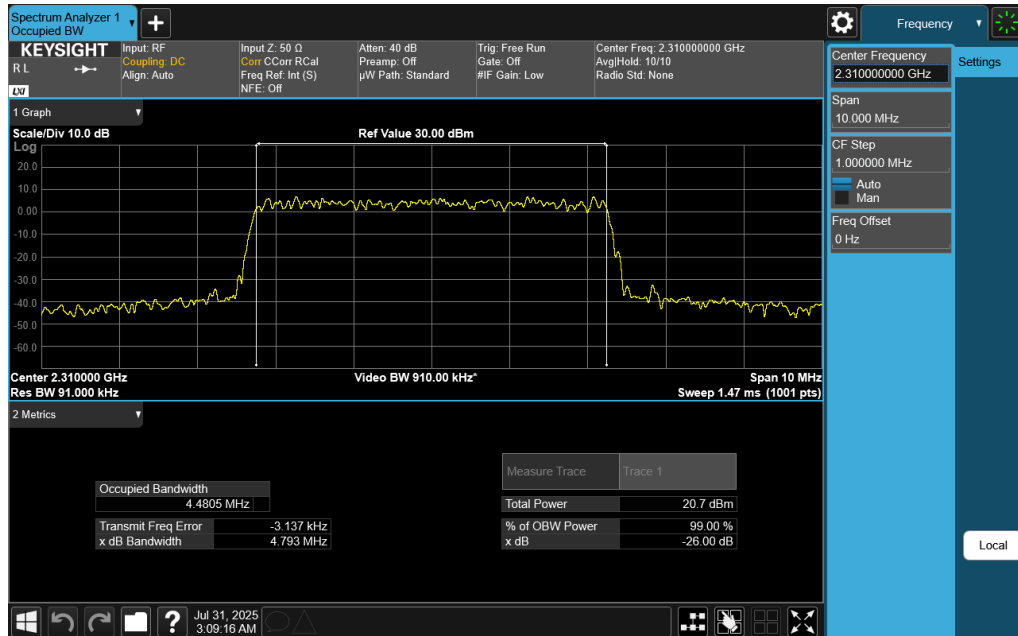
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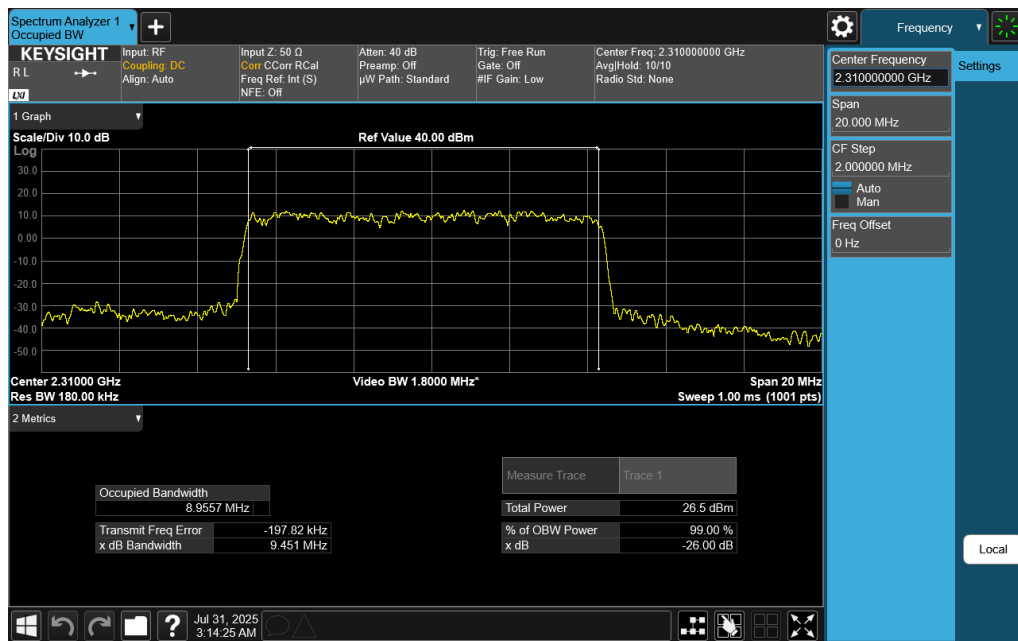
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 39 of 318

V2.2 09/07/2023

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Plot 7-45. Occupied Bandwidth Plot (NR Band n30 - 5MHz CP-OFDM 256-QAM - Full RB)

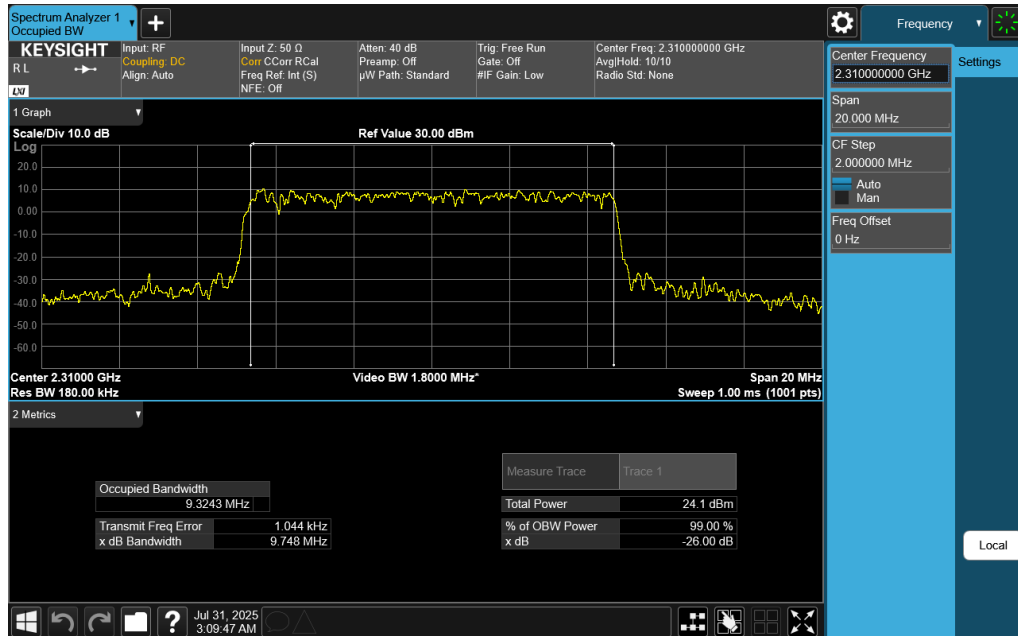


Plot 7-46. Occupied Bandwidth Plot (NR Band n30 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

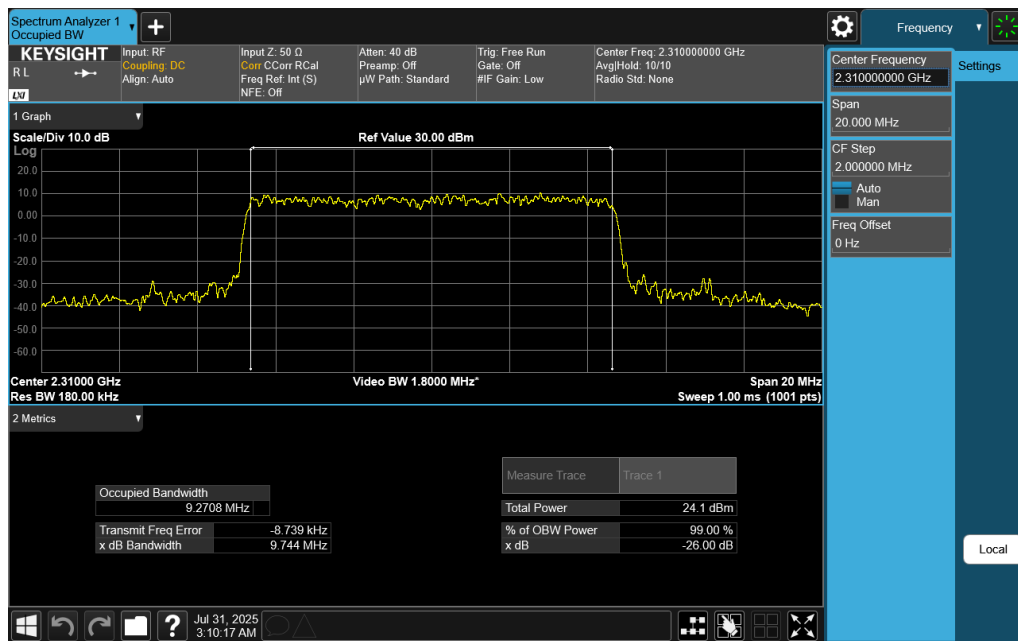
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 40 of 318

V2.2 09/07/2023

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Plot 7-47. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM QPSK - Full RB)

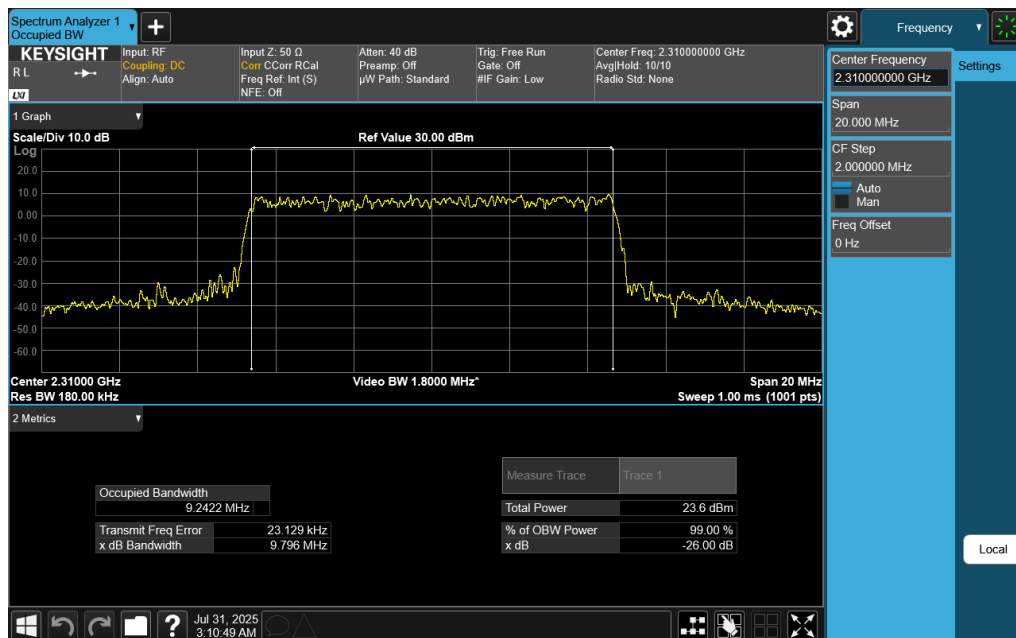


Plot 7-48. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 16-QAM - Full RB)

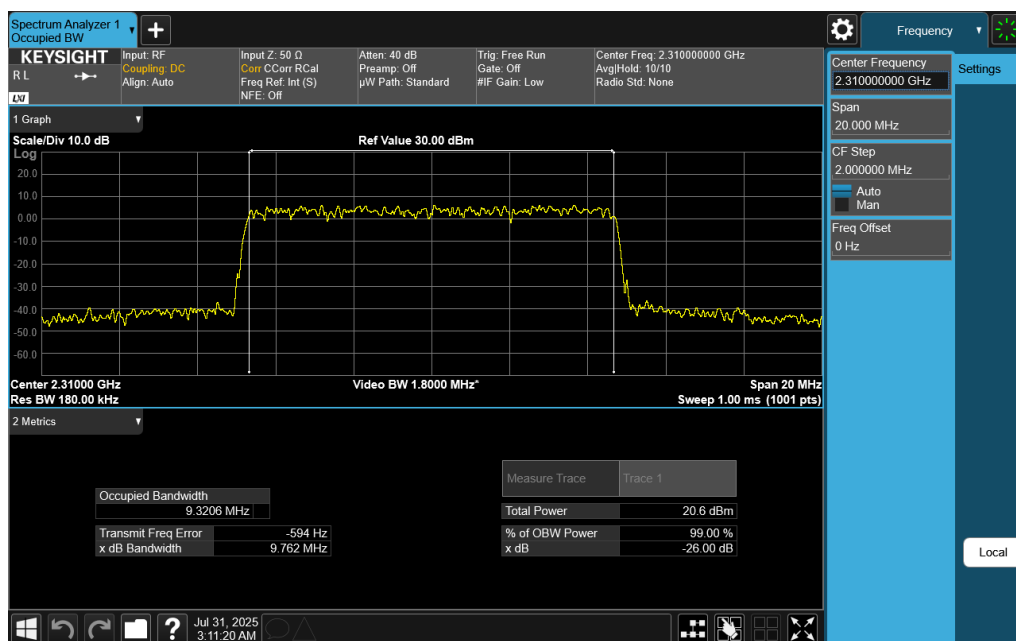
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 41 of 318

V2.2 09/07/2023

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Plot 7-49. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 64-QAM - Full RB)



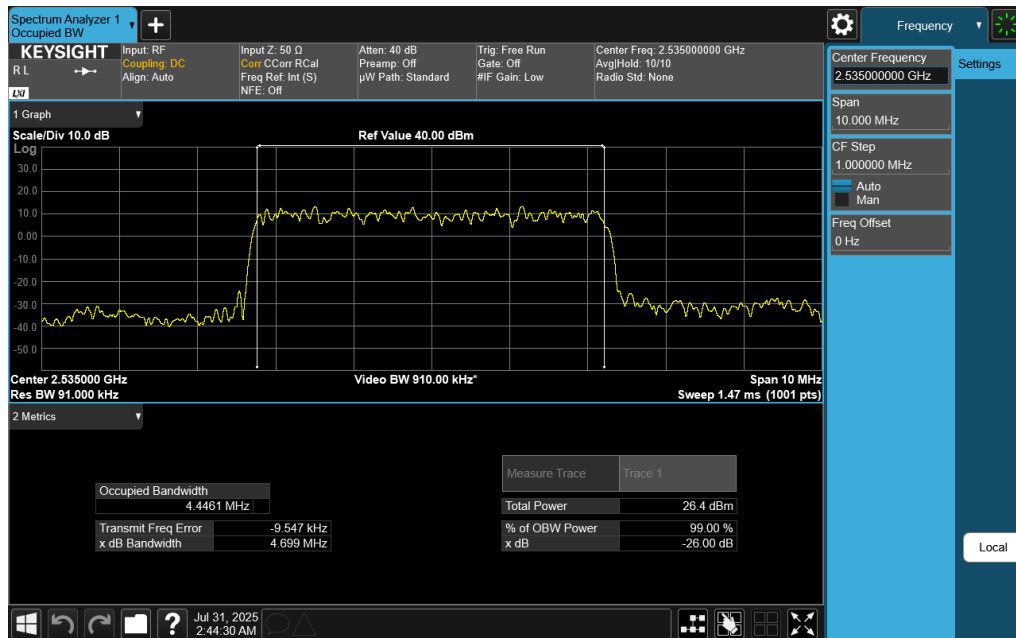
Plot 7-50. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 42 of 318

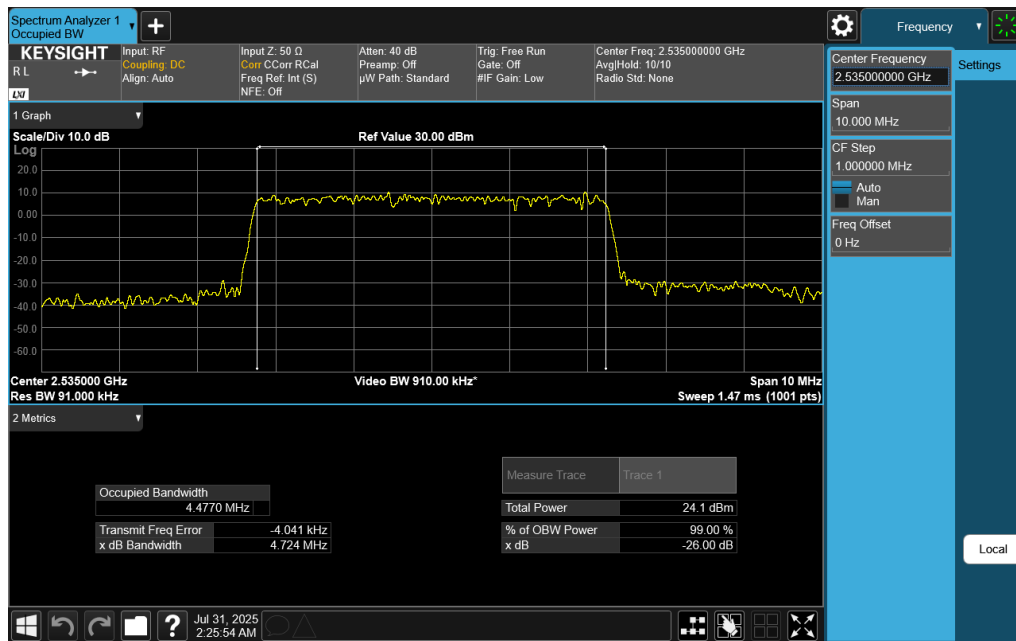
V2.2 09/07/2023

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NR Band n7



Plot 7-51. Occupied Bandwidth Plot (NR Band n7 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

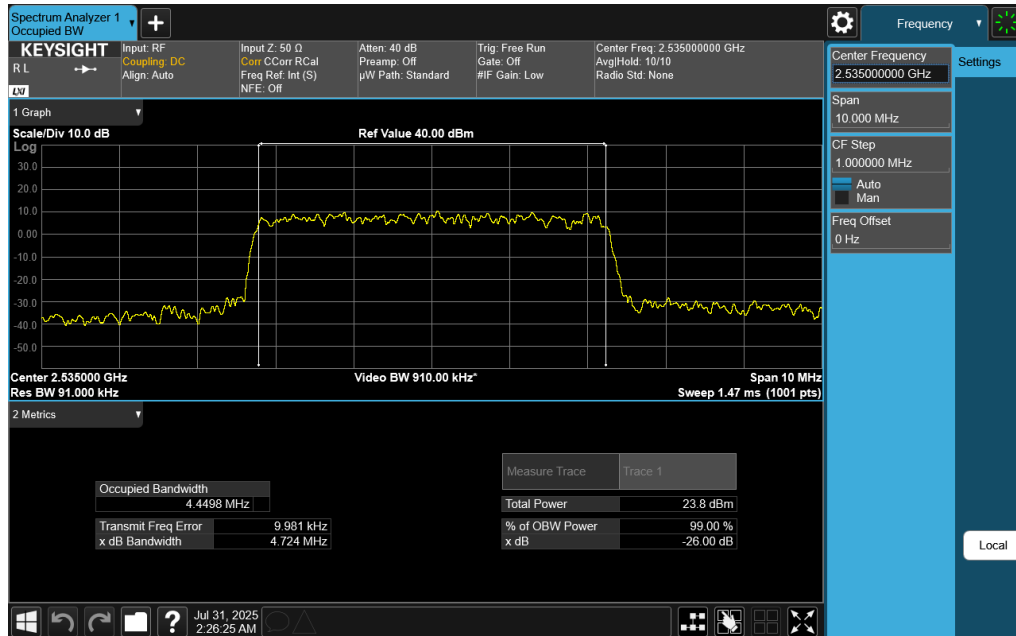


Plot 7-52. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM QPSK - Full RB)

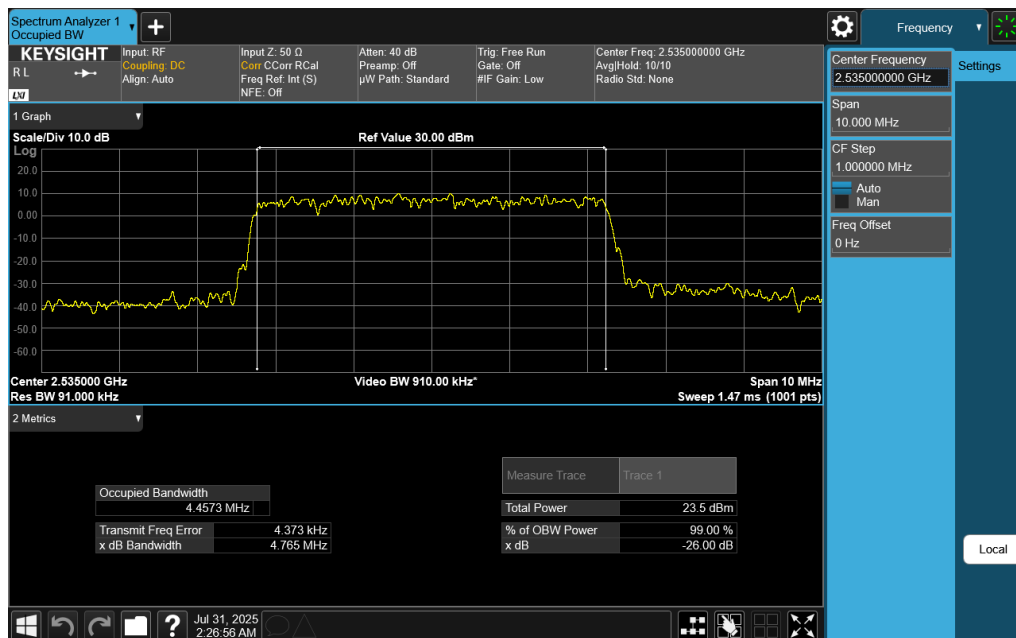
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 43 of 318

V2.2 09/07/2023

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Plot 7-53. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 16-QAM - Full RB)

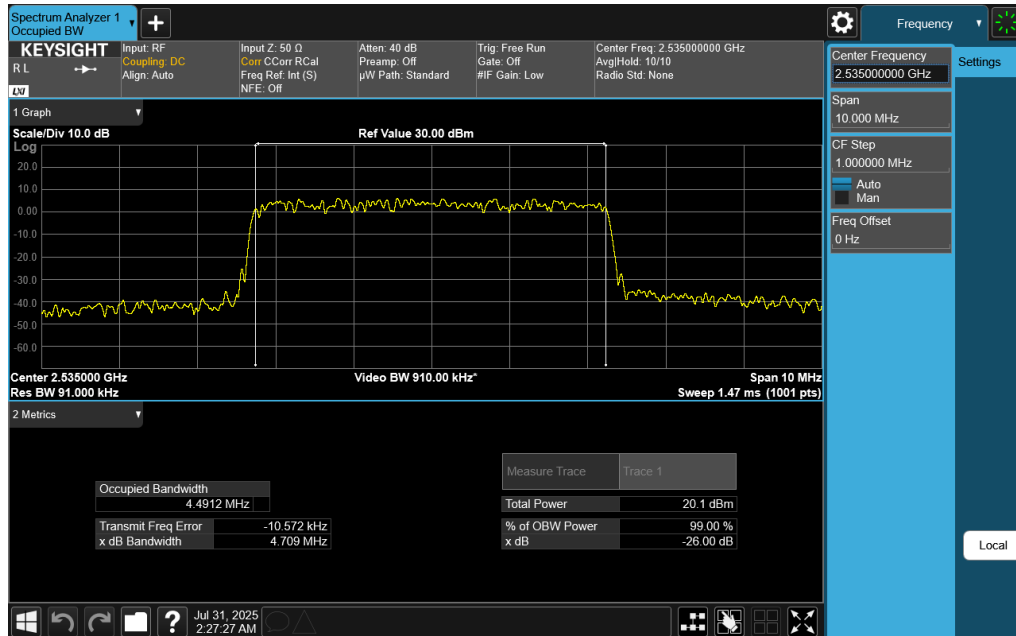


Plot 7-54. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 64-QAM - Full RB)

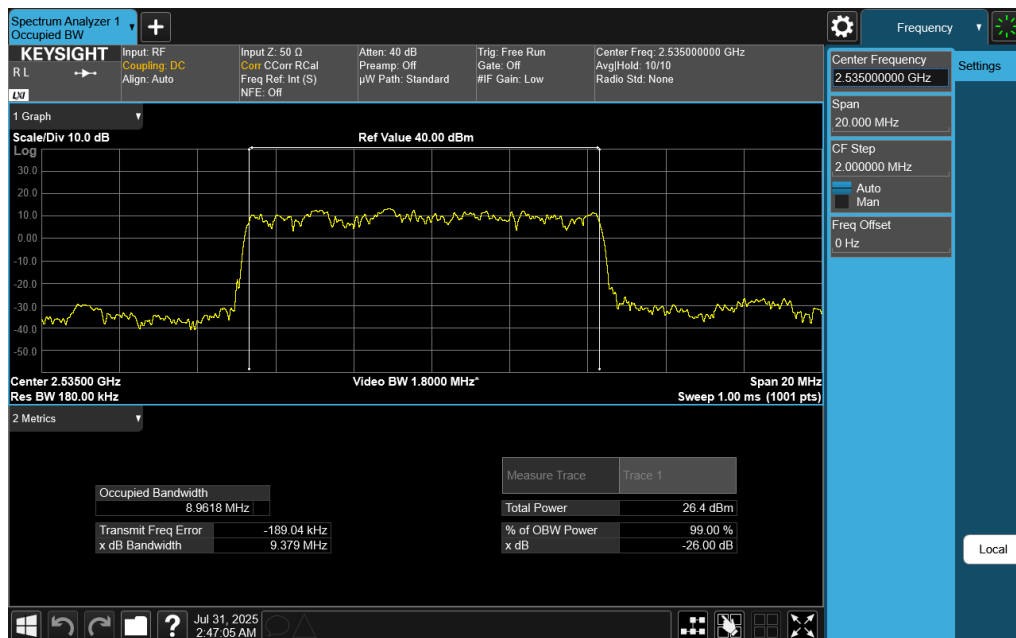
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 44 of 318

V2.2 09/07/2023

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Plot 7-55. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 256-QAM - Full RB)

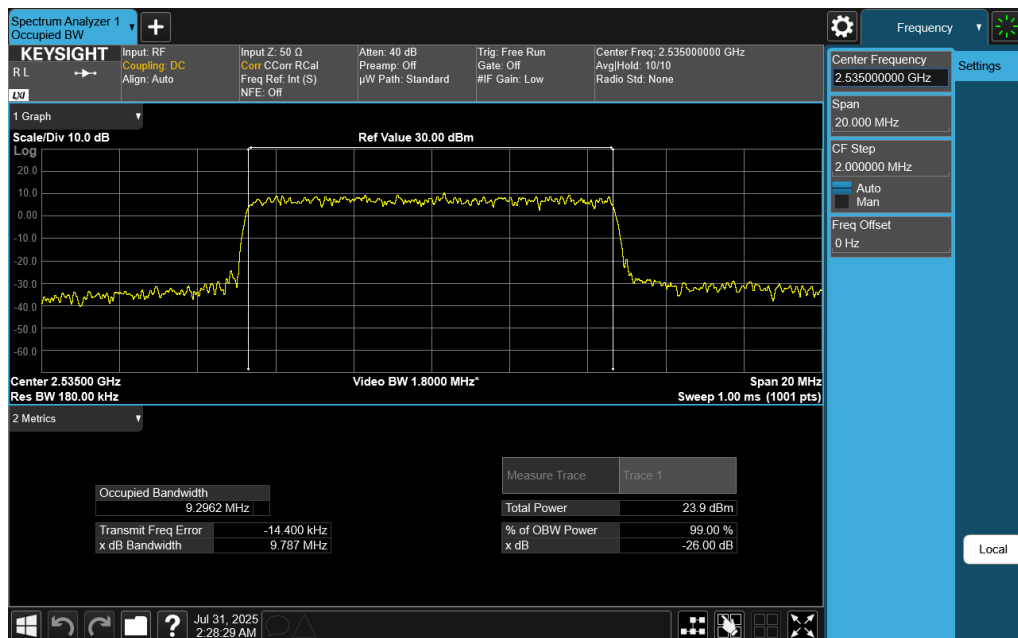
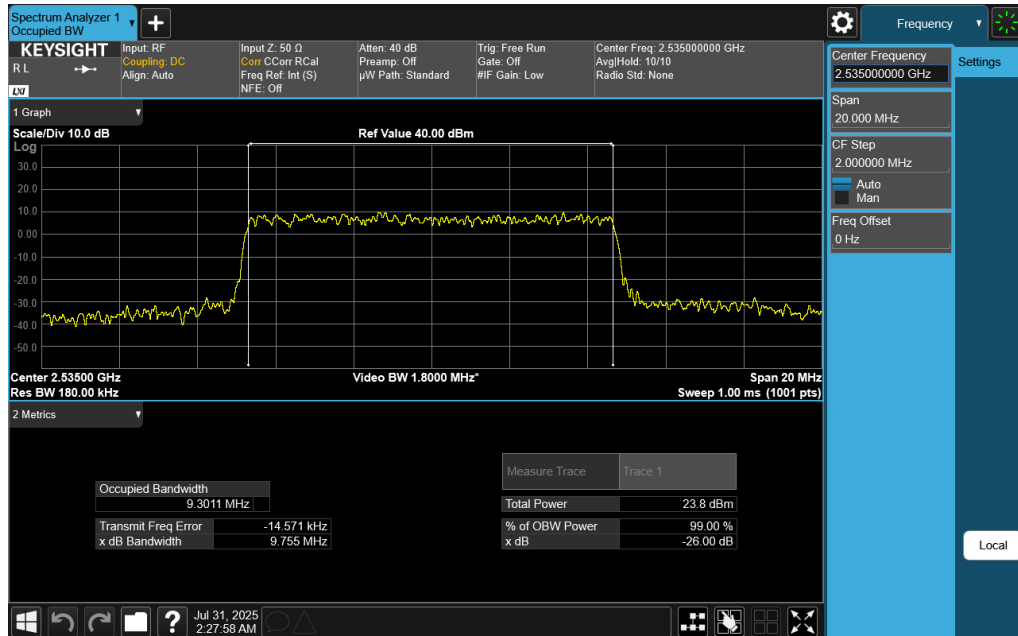


Plot 7-56. Occupied Bandwidth Plot (NR Band n7 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 45 of 318

V2.2 09/07/2023

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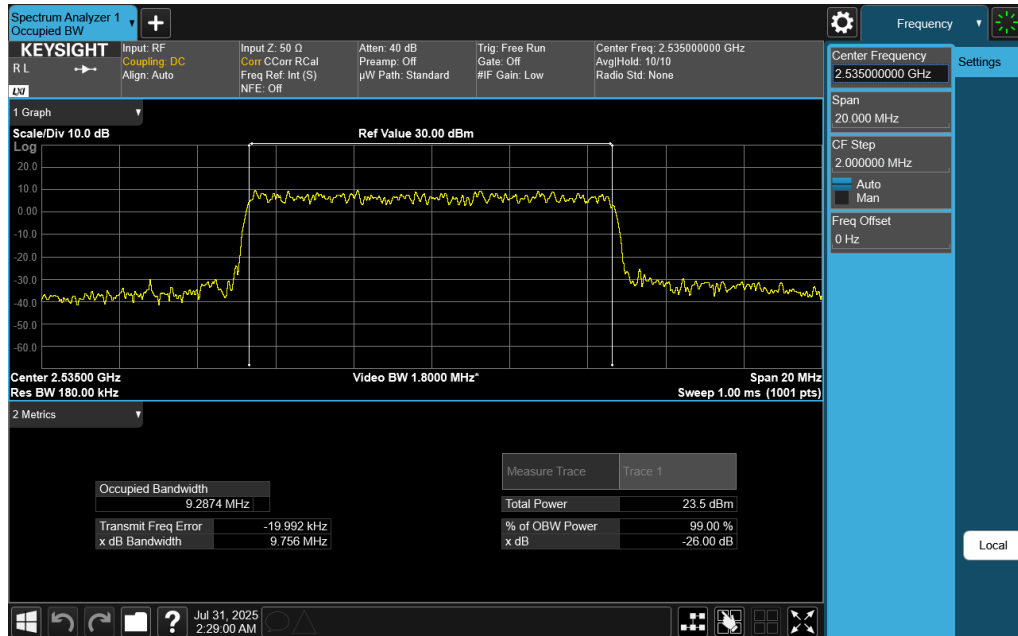


Plot 7-58. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 16-QAM - Full RB)

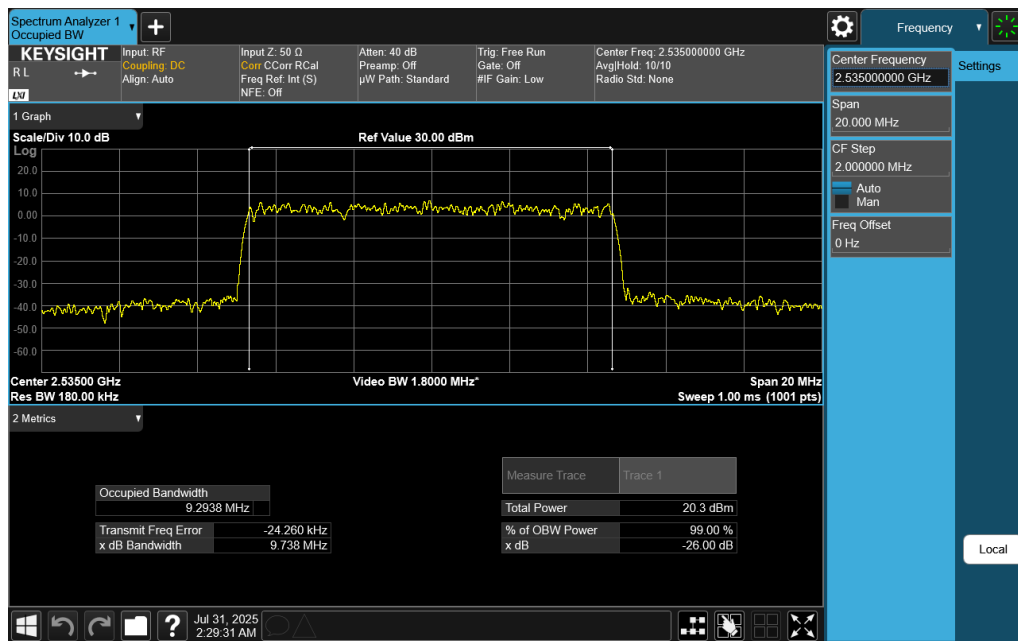
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 46 of 318

V2.2 09/07/2023

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Plot 7-59. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 64-QAM - Full RB)

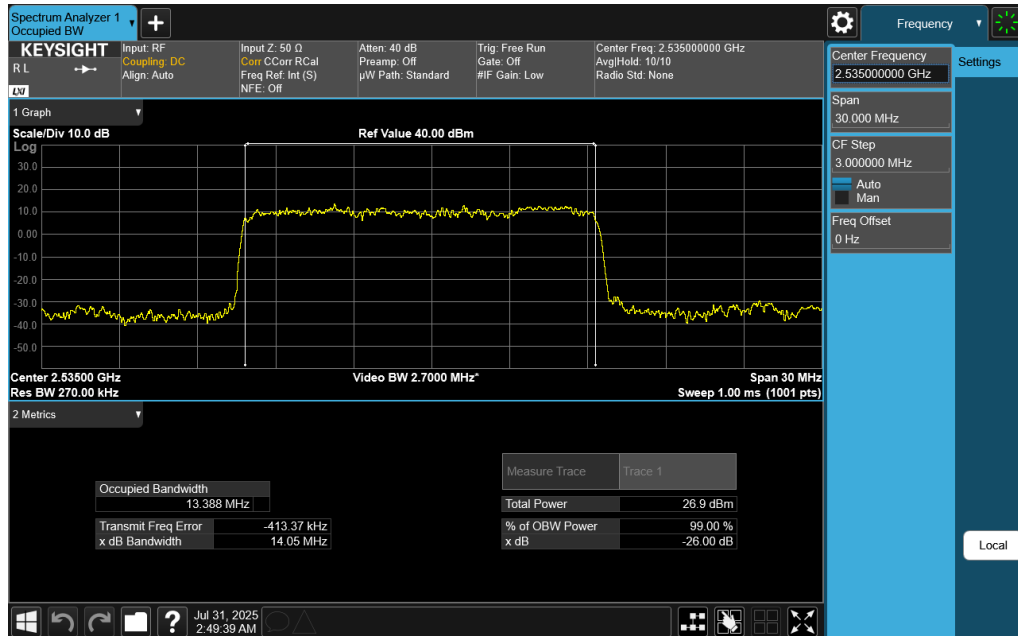


Plot 7-60. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 256-QAM - Full RB)

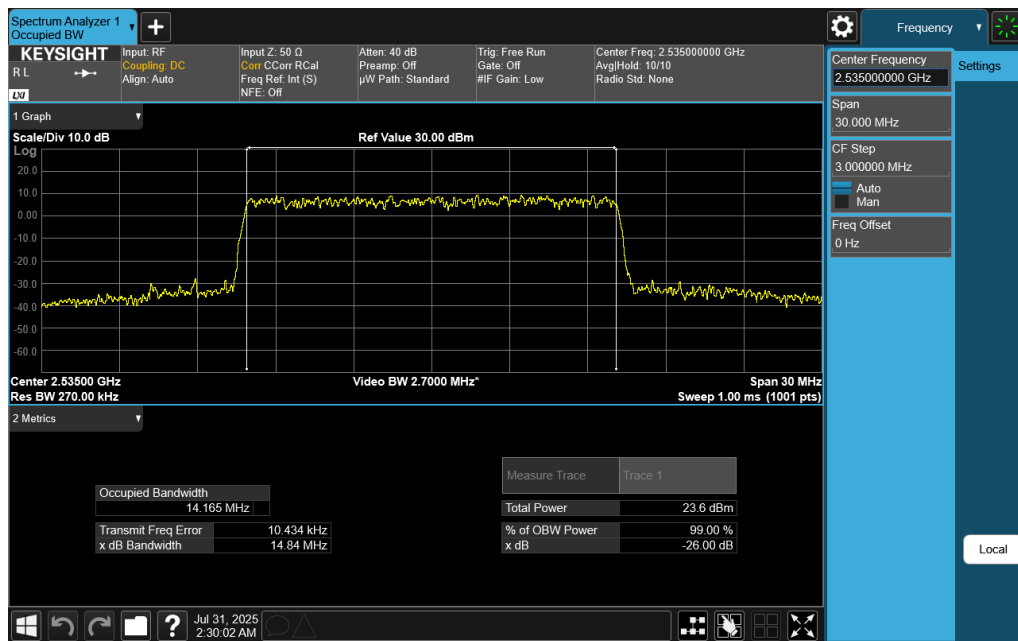
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 47 of 318

V2.2 09/07/2023

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Plot 7-61. Occupied Bandwidth Plot (NR Band n7 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

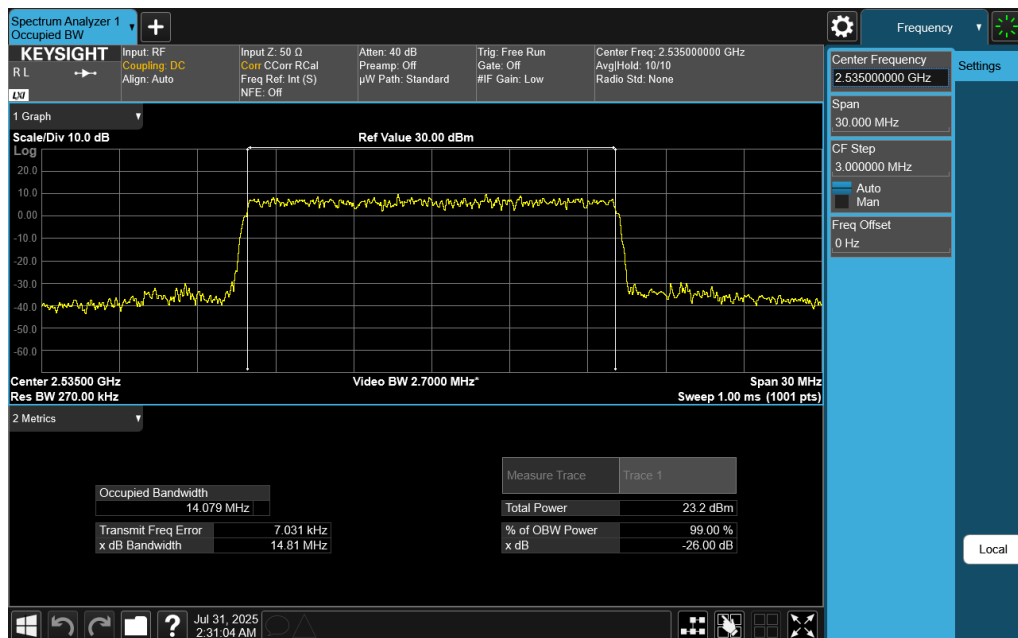
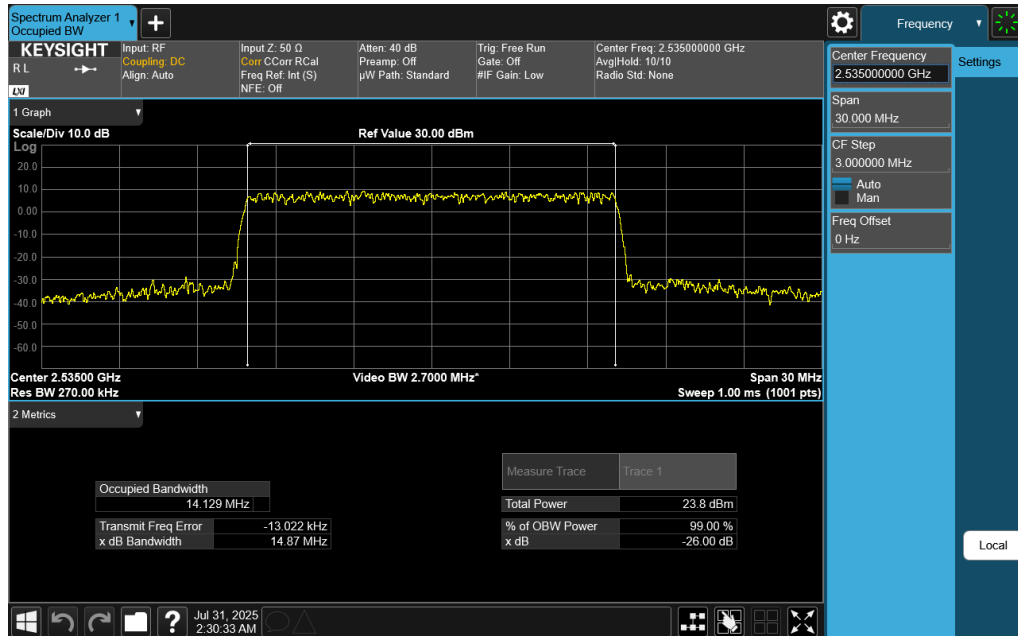


Plot 7-62. Occupied Bandwidth Plot (NR Band n7 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 48 of 318

V2.2 09/07/2023

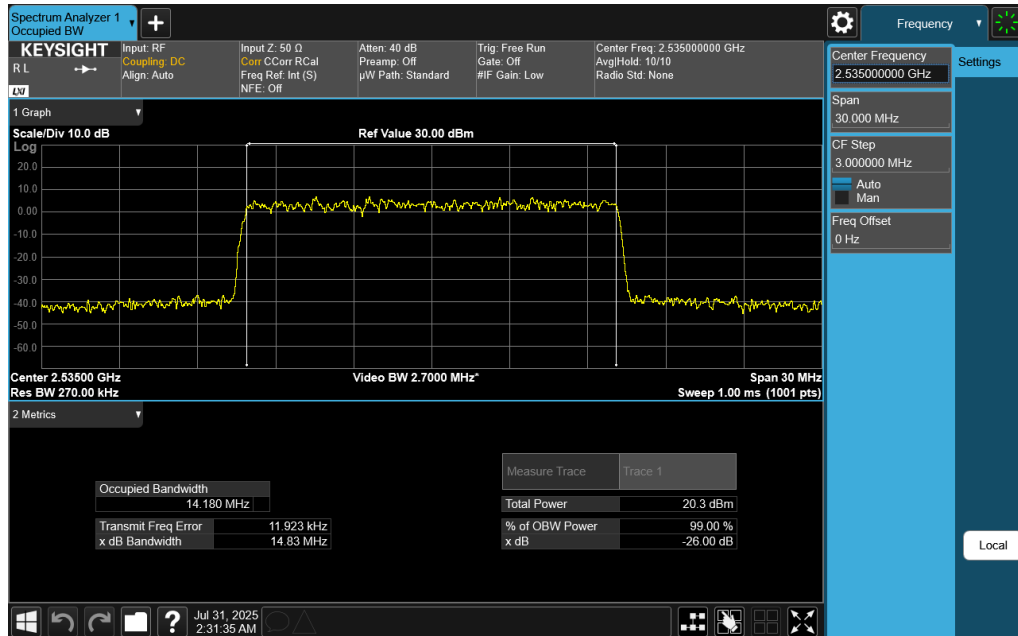
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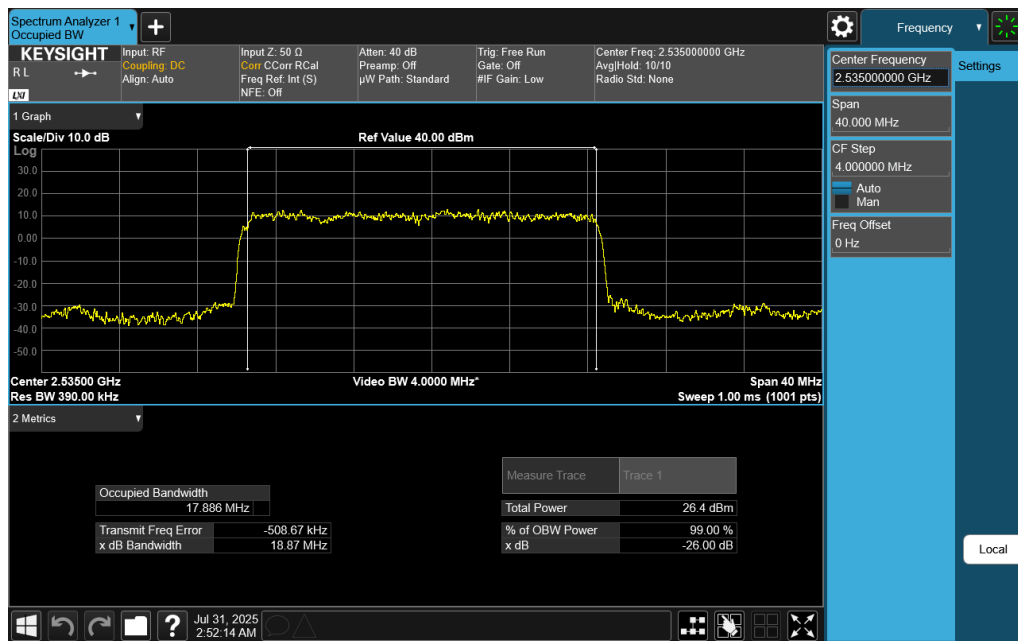
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 49 of 318

V2.2 09/07/2023

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Plot 7-65. Occupied Bandwidth Plot (NR Band n7 - 15MHz CP-OFDM 256-QAM - Full RB)

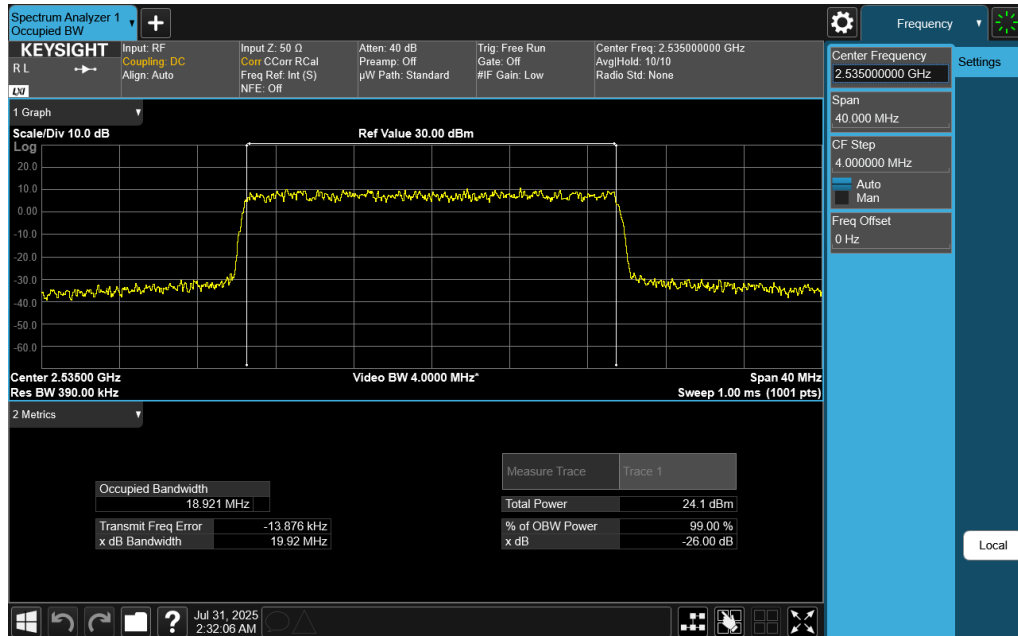


Plot 7-66. Occupied Bandwidth Plot (NR Band n7 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

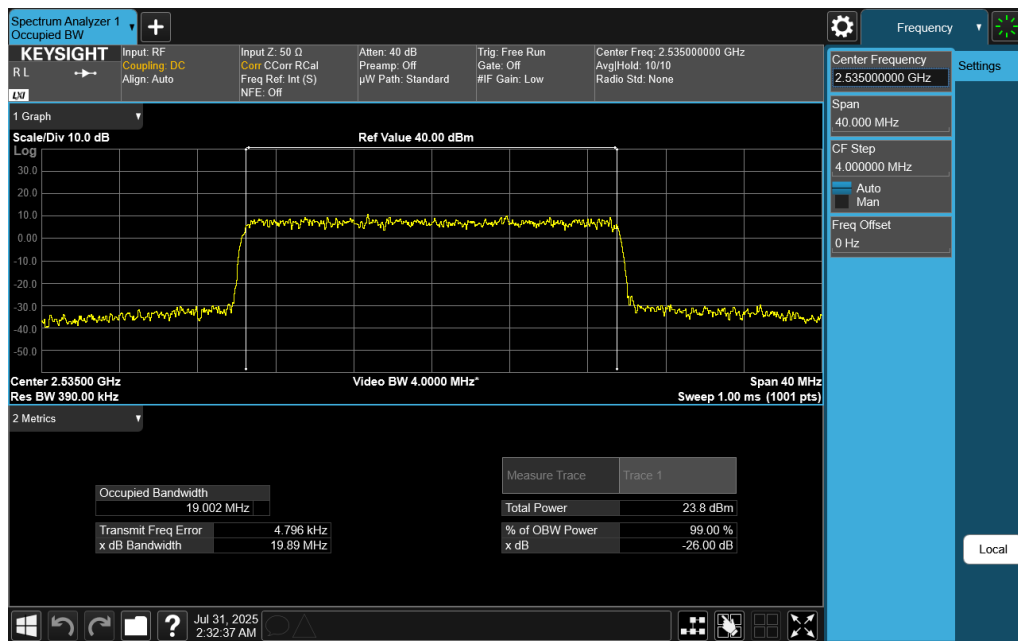
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 50 of 318

V2.2 09/07/2023

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Plot 7-67. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM QPSK - Full RB)

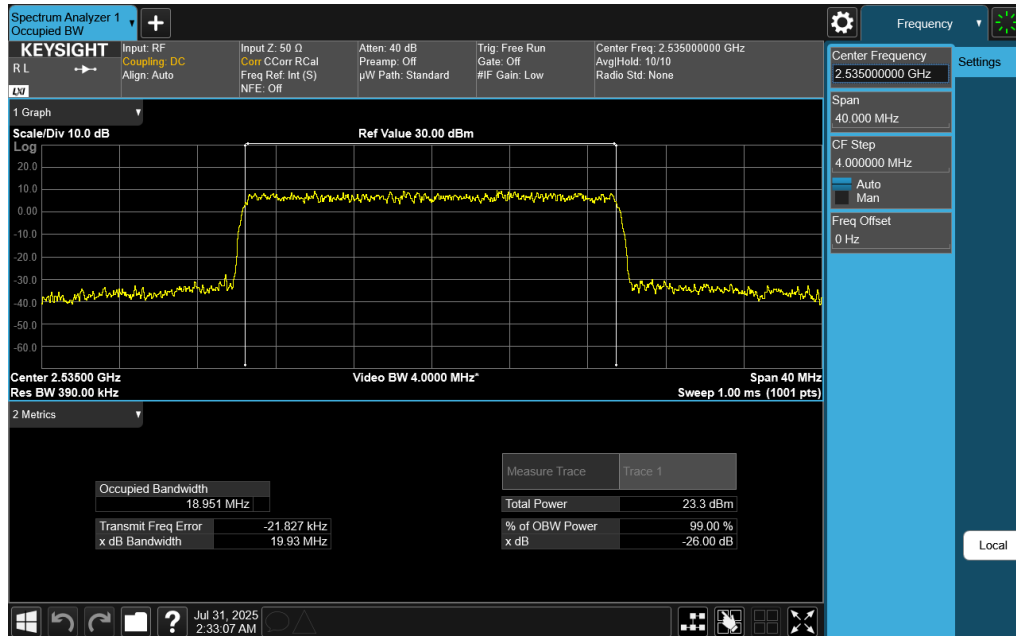


Plot 7-68. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 16-QAM - Full RB)

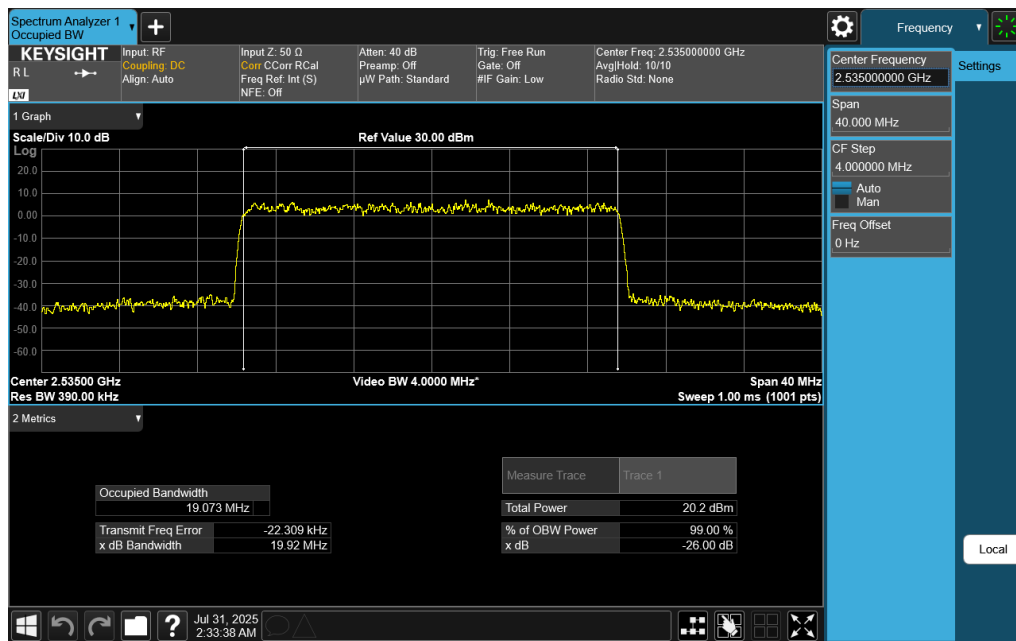
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 51 of 318

V2.2 09/07/2023

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Plot 7-69. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 64-QAM - Full RB)

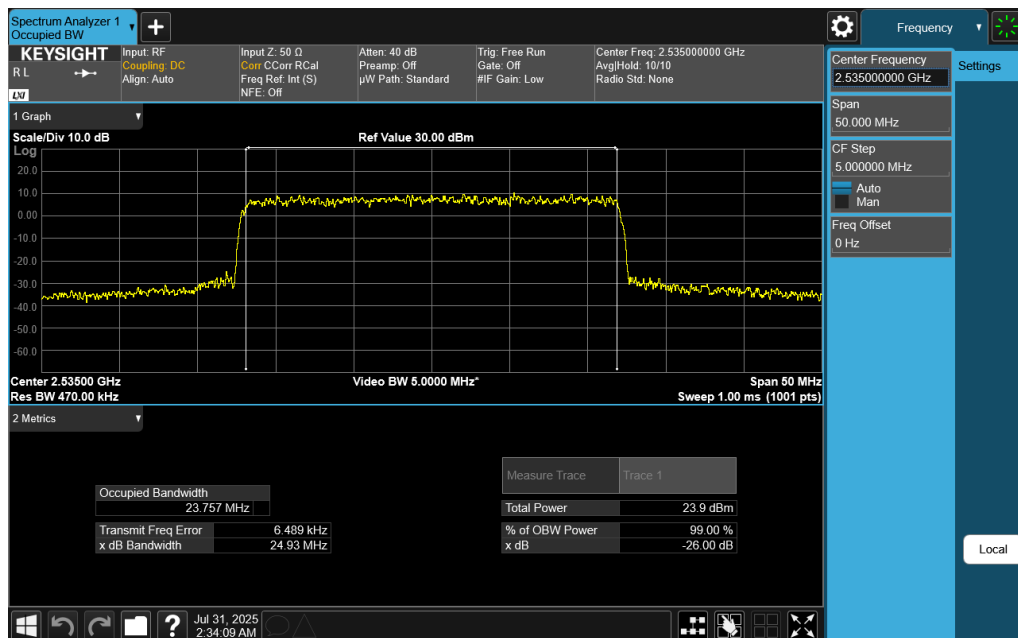
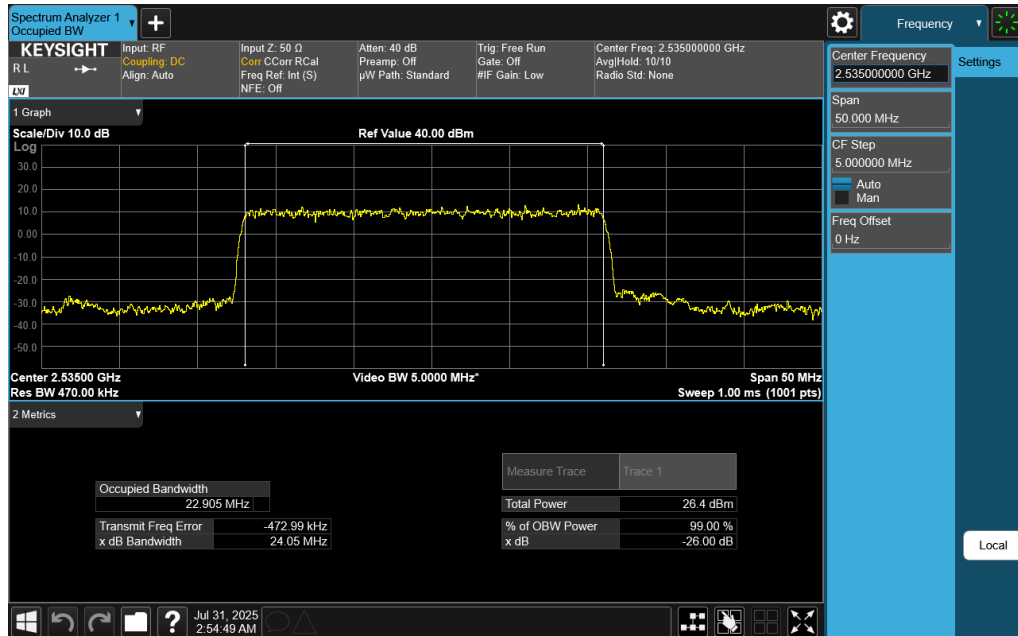


Plot 7-70. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 52 of 318

V2.2 09/07/2023

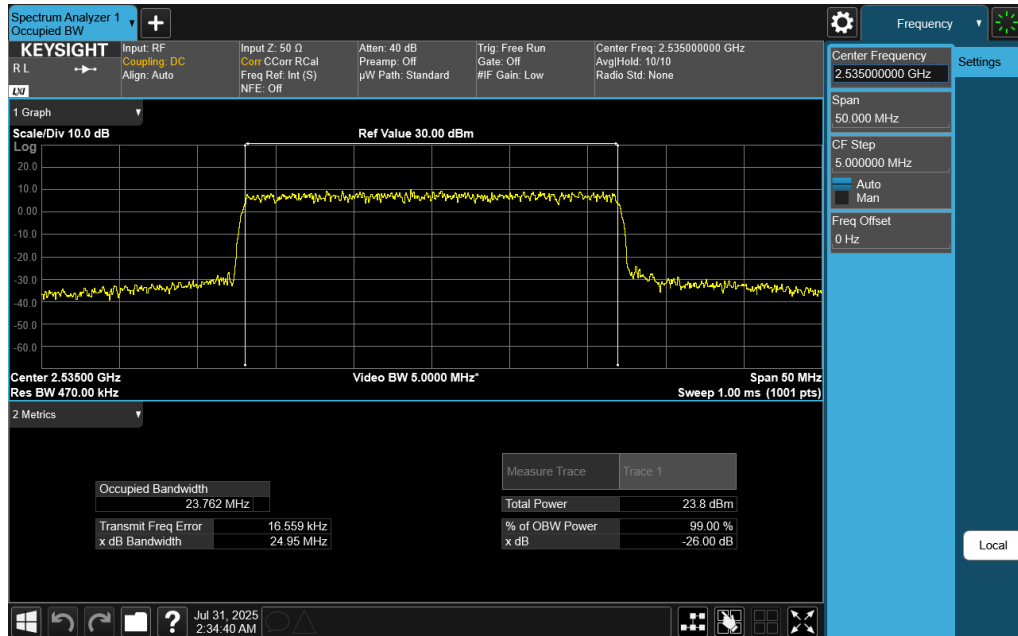
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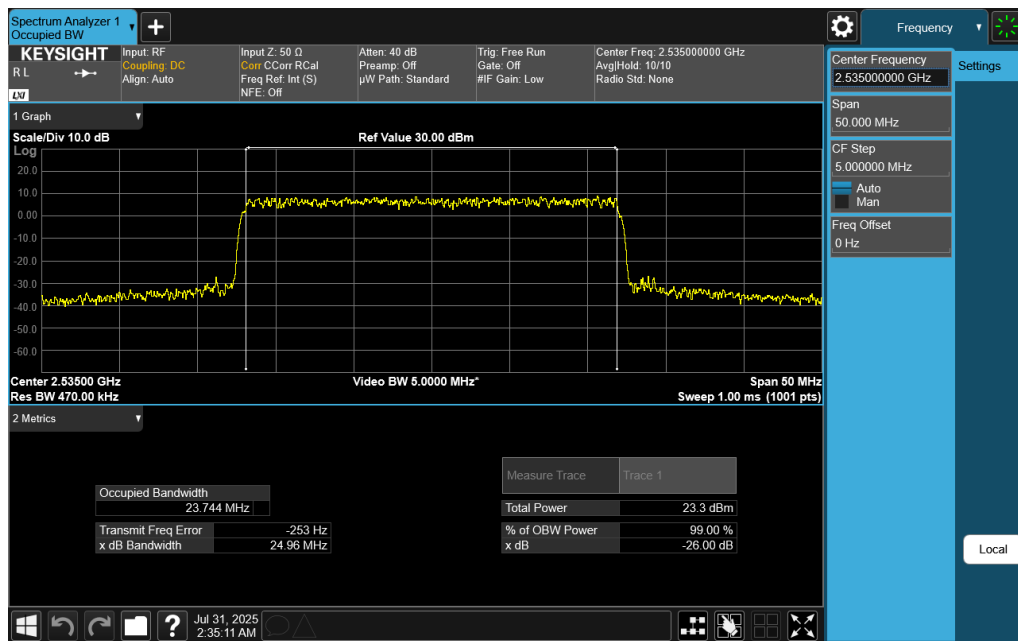
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 53 of 318

V2.2 09/07/2023

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Plot 7-73. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 16-QAM - Full RB)

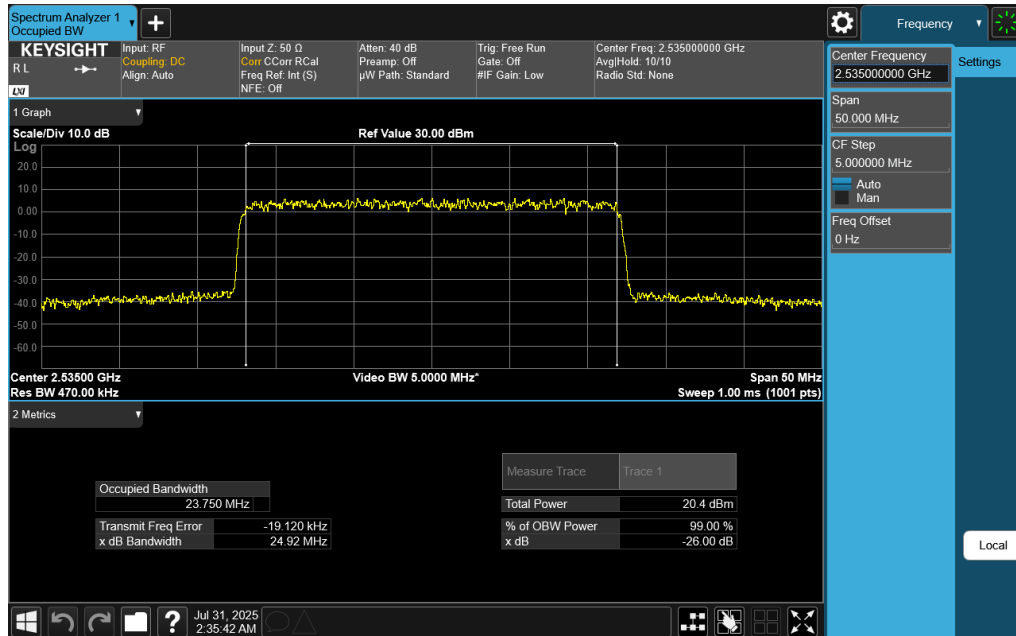


Plot 7-74. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 64-QAM - Full RB)

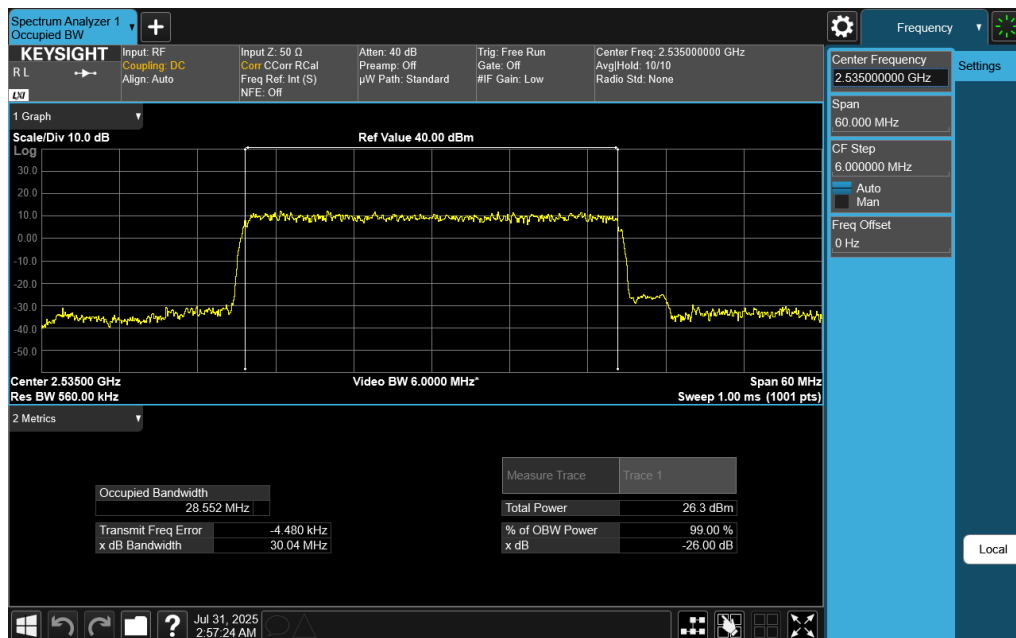
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 54 of 318

V2.2 09/07/2023

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Plot 7-75. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 256-QAM - Full RB)

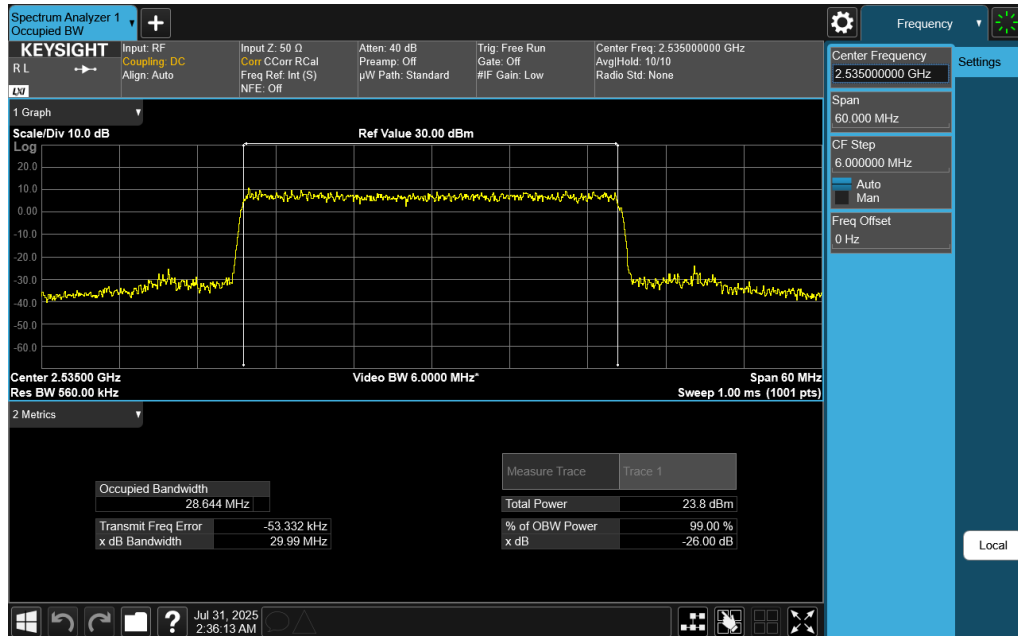


Plot 7-76. Occupied Bandwidth Plot (NR Band n7 - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

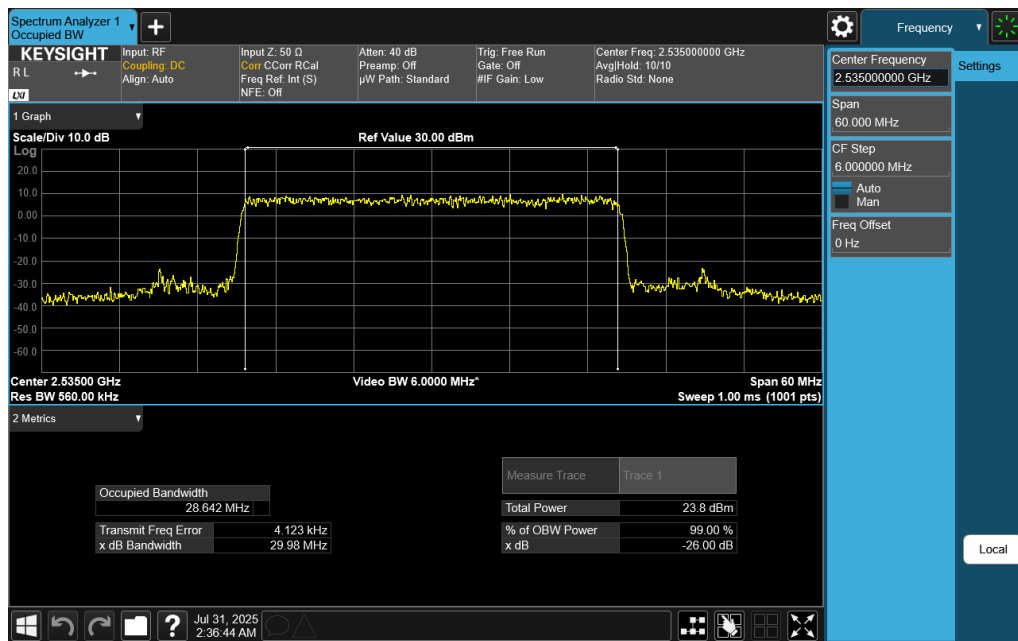
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 55 of 318

V2.2 09/07/2023

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Plot 7-77. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM QPSK - Full RB)



Plot 7-78. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 56 of 318

V2.2 09/07/2023

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Spectrum Analyzer 1
Occupied BW

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
C_{cal}: O_{cal}: R_{cal}:
Freq Ref: Int (S)
NFE: Off

Atten: 40 dB
Preamp: Off
 μ W Path: Standard

Trig: Free Run
Gate Off
#IF Gain: Low

Center Freq: 2.535000000 GHz
Avg/Hold: 10/10
Radio Std: None

Center Frequency
2.535000000 GHz

Span
60.000 MHz

CF Step
6.000000 MHz

Auto
Man

Freq Offset
0 Hz

1 Graph

Scale/Div 10.0 dB

Log

Ref Value 30.00 dBm

Center 2.53500 GHz
Res BW 660.00 kHz

Video BW 6.0000 MHz*

Span 60 MHz
Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth
28.651 MHz

Transmit Freq Error
-30.694 kHz

x dB Bandwidth
29.99 MHz

Measure Trace
Trace 1

Total Power
20.4 dBm

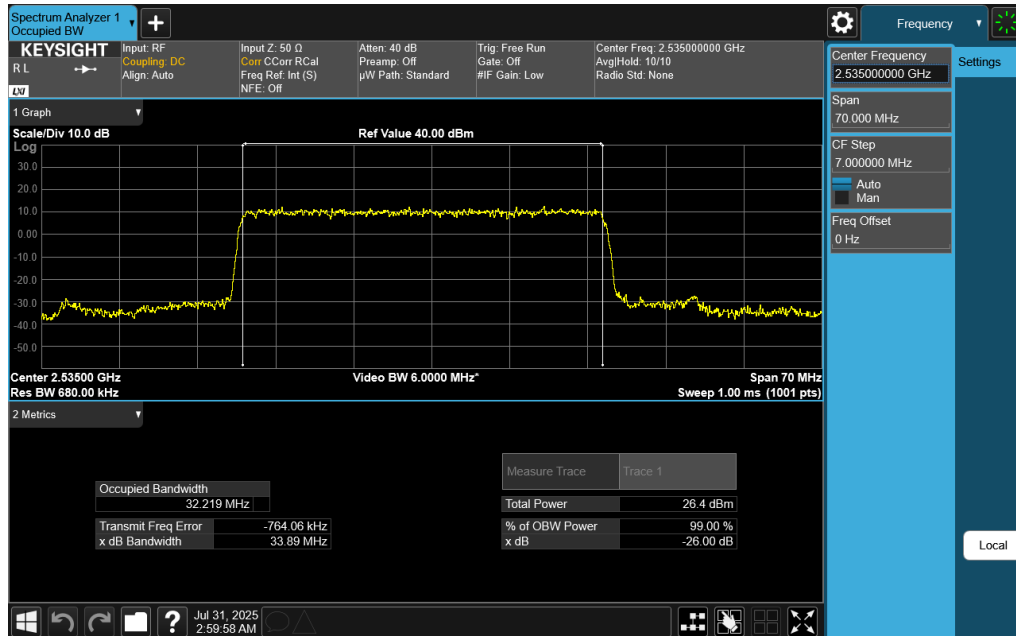
% of OBW Power
99.00 %

x dB
-26.00 dB

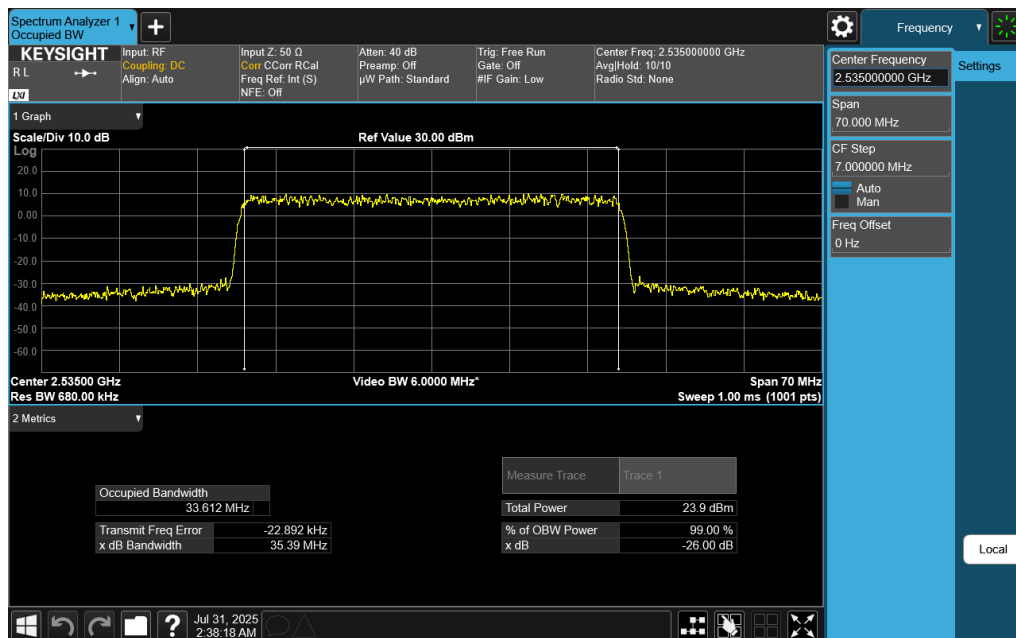
Local

Jul 31, 2025
2:37:46 AM

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 57 of 318



Plot 7-81. Occupied Bandwidth Plot (NR Band n7 - 35MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

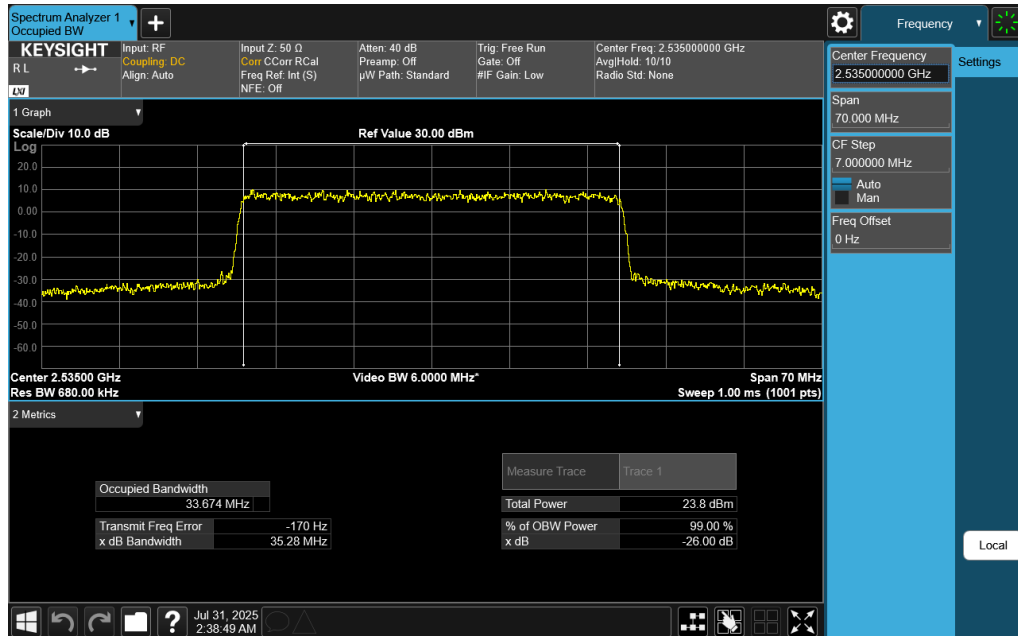


Plot 7-82. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM QPSK - Full RB)

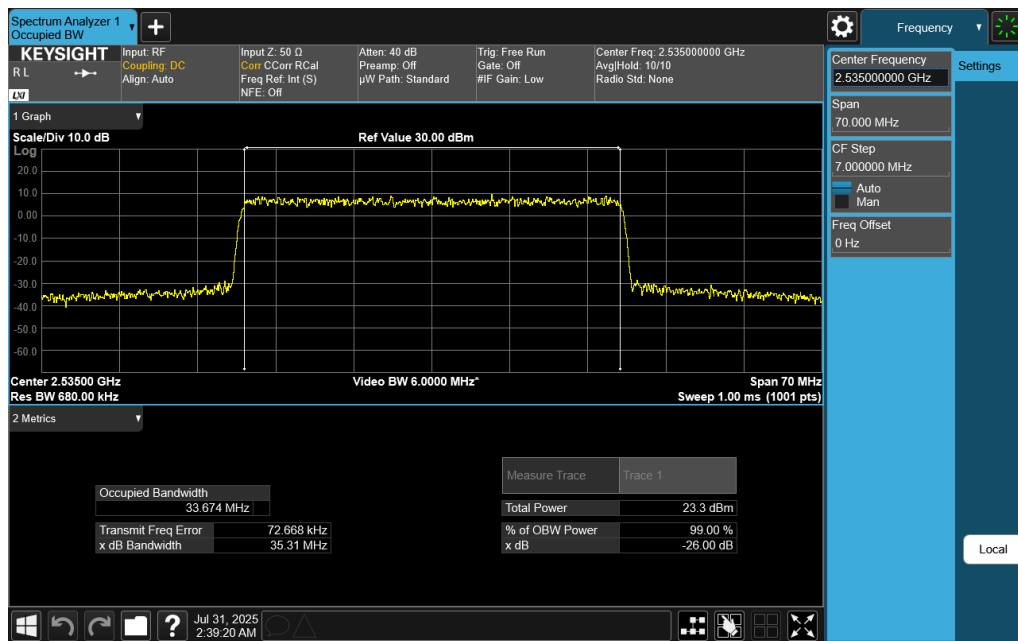
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 58 of 318

V2.2 09/07/2023

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Plot 7-83. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 16-QAM - Full RB)

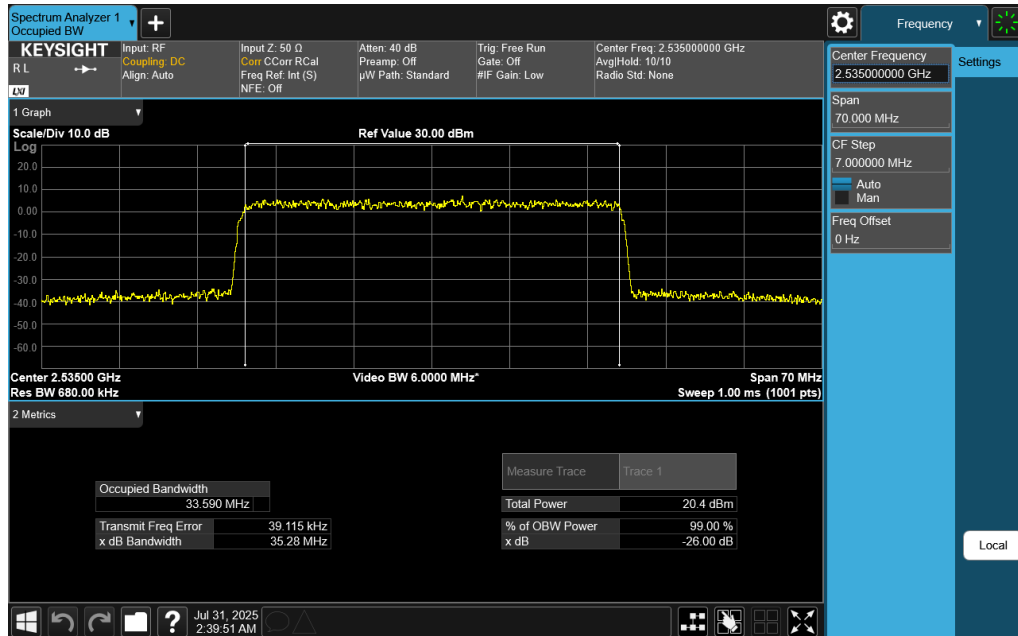


Plot 7-84. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 64-QAM - Full RB)

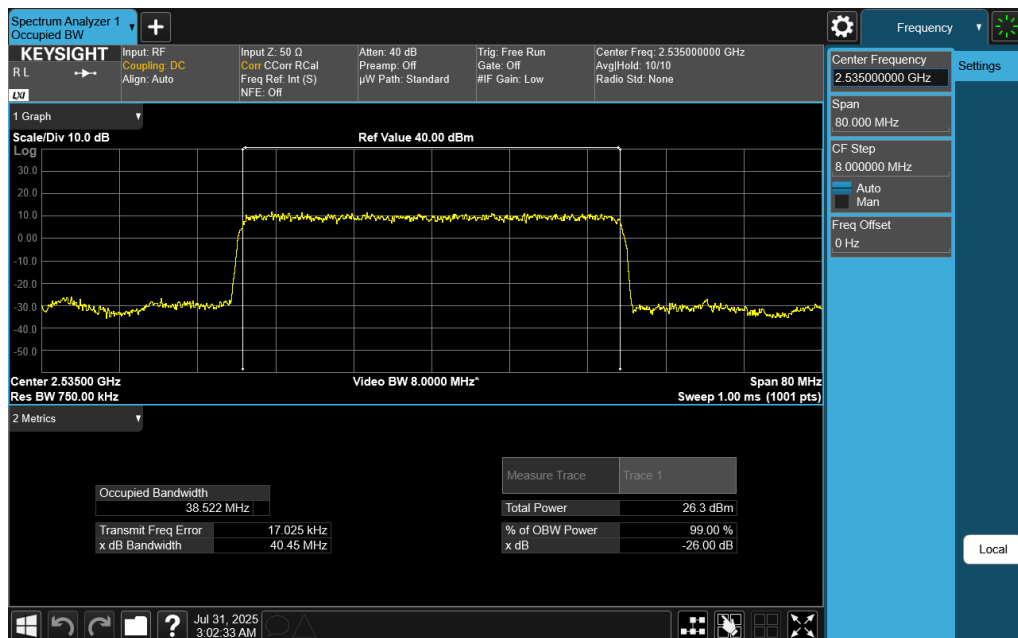
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 59 of 318

V2.2 09/07/2023

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Plot 7-85. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 256-QAM - Full RB)

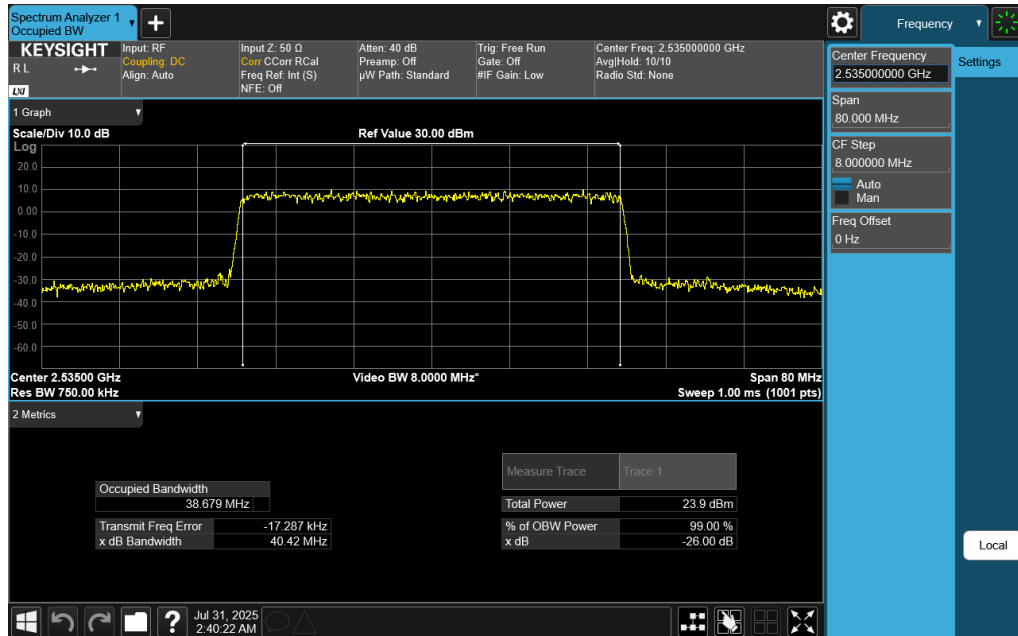


Plot 7-86. Occupied Bandwidth Plot (NR Band n7 - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

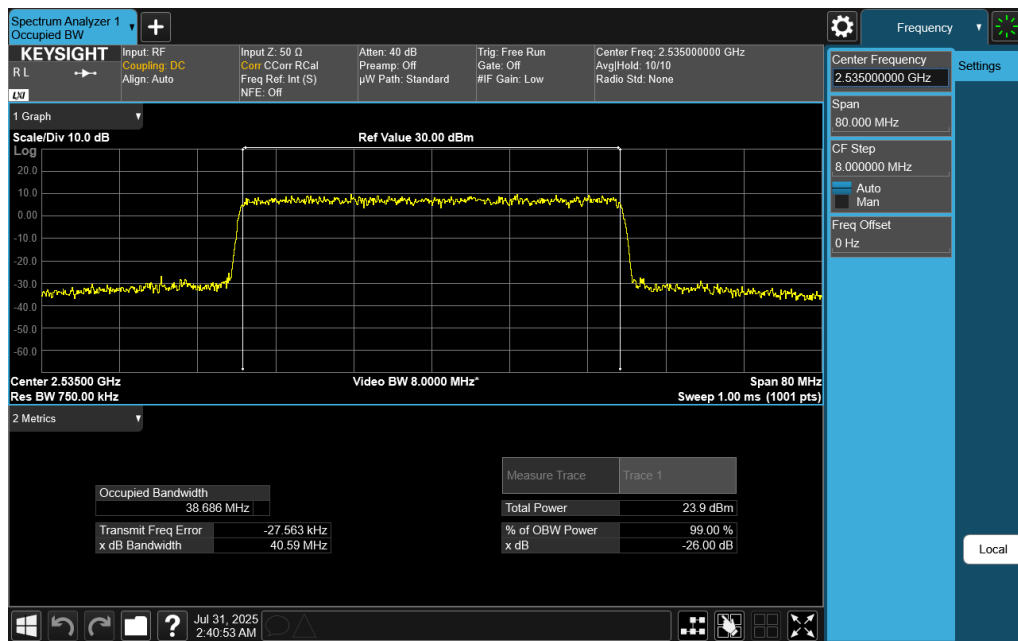
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 60 of 318

V2.2 09/07/2023

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Plot 7-87. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM QPSK - Full RB)

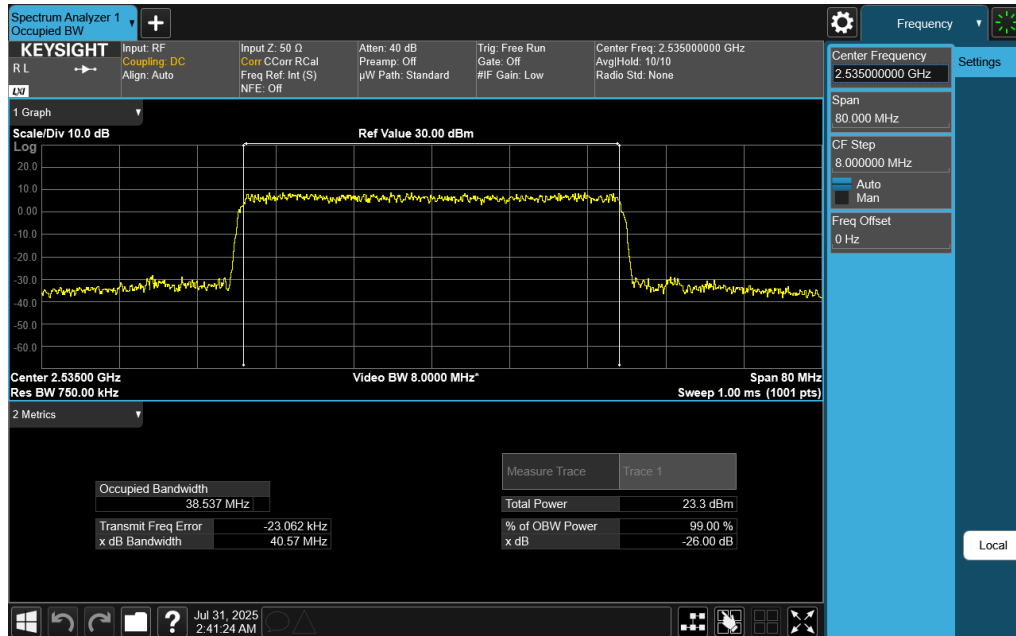


Plot 7-88. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM 16-QAM - Full RB)

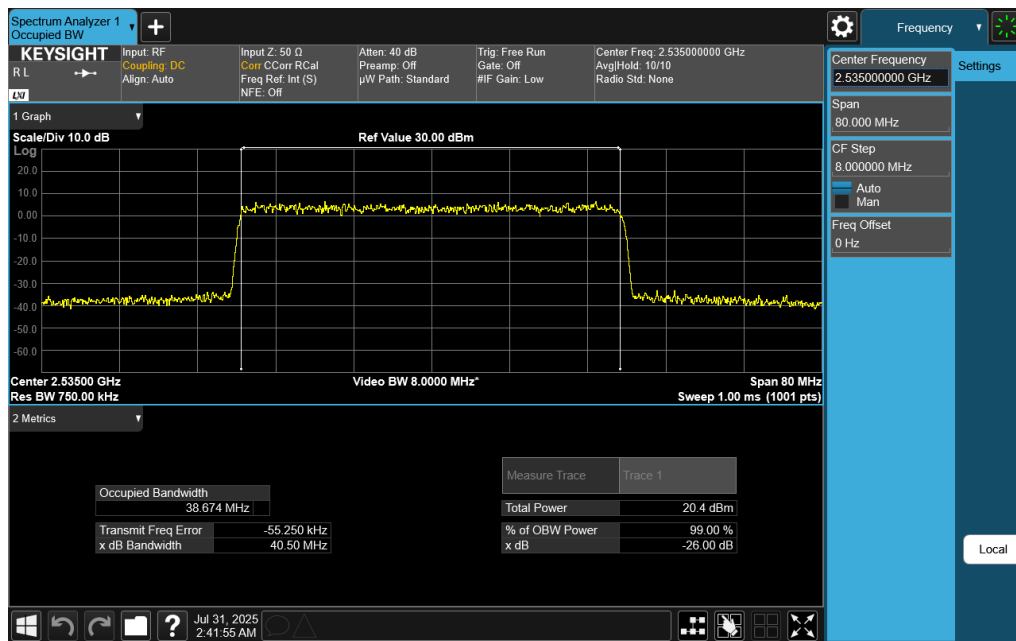
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 61 of 318

V2.2 09/07/2023

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Plot 7-89. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM 64-QAM - Full RB)

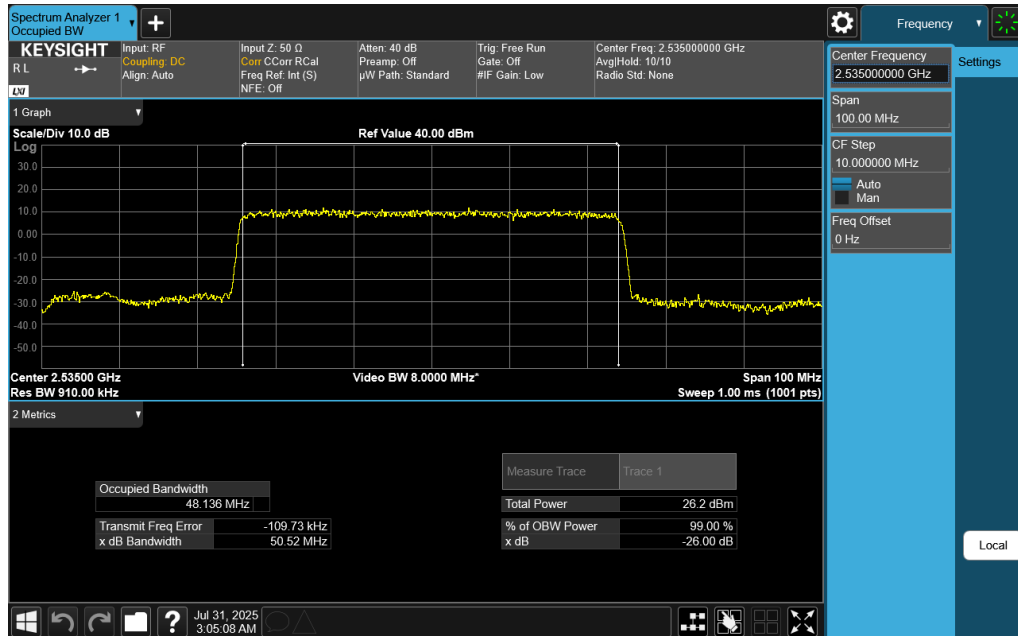


Plot 7-90. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM 256-QAM - Full RB)

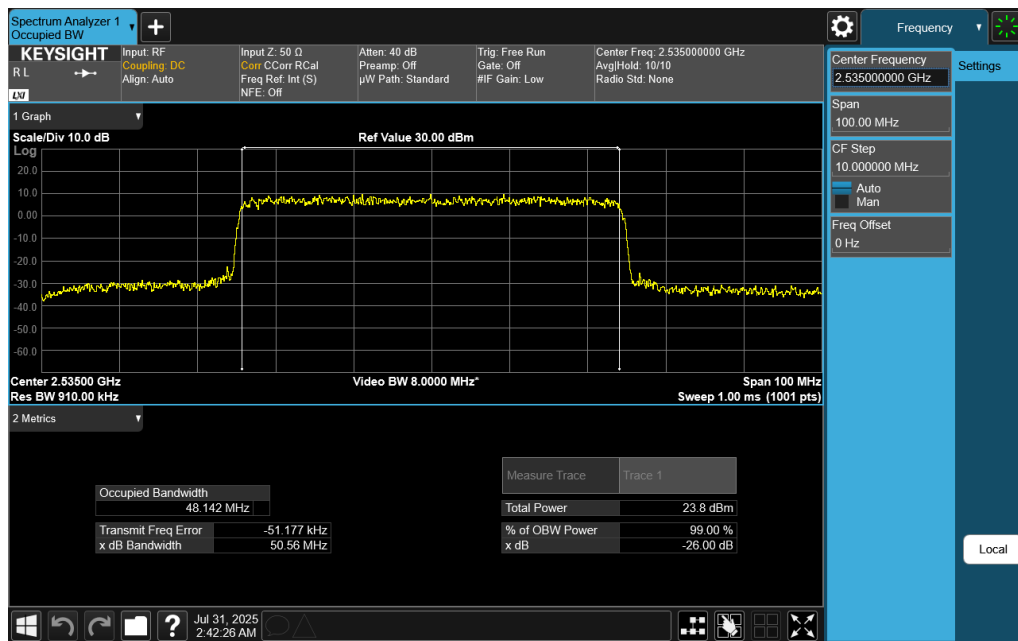
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 62 of 318

V2.2 09/07/2023

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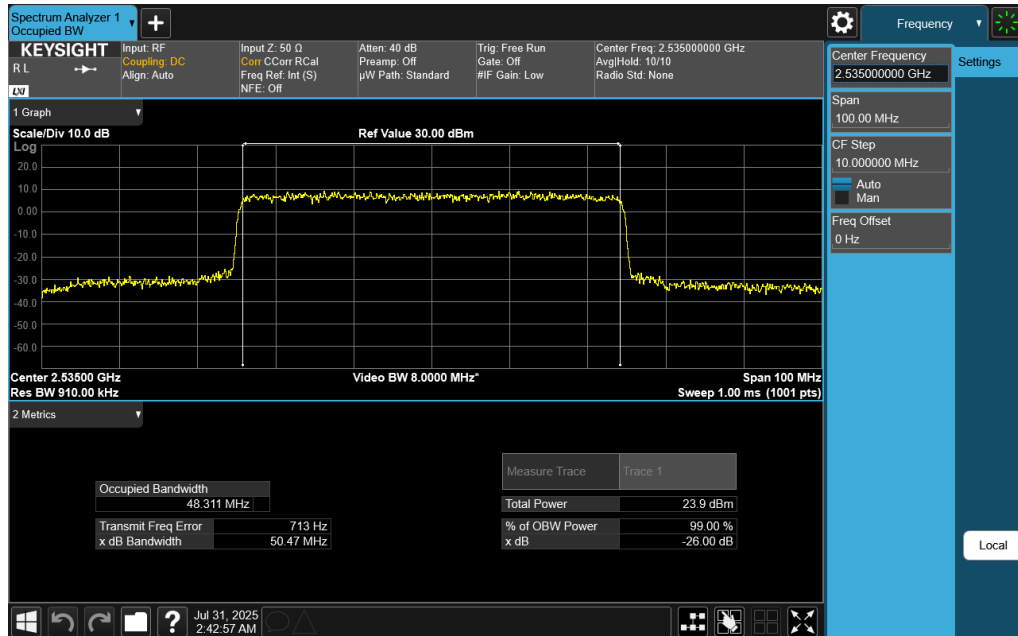


Plot 7-91. Occupied Bandwidth Plot (NR Band n7 - 50MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

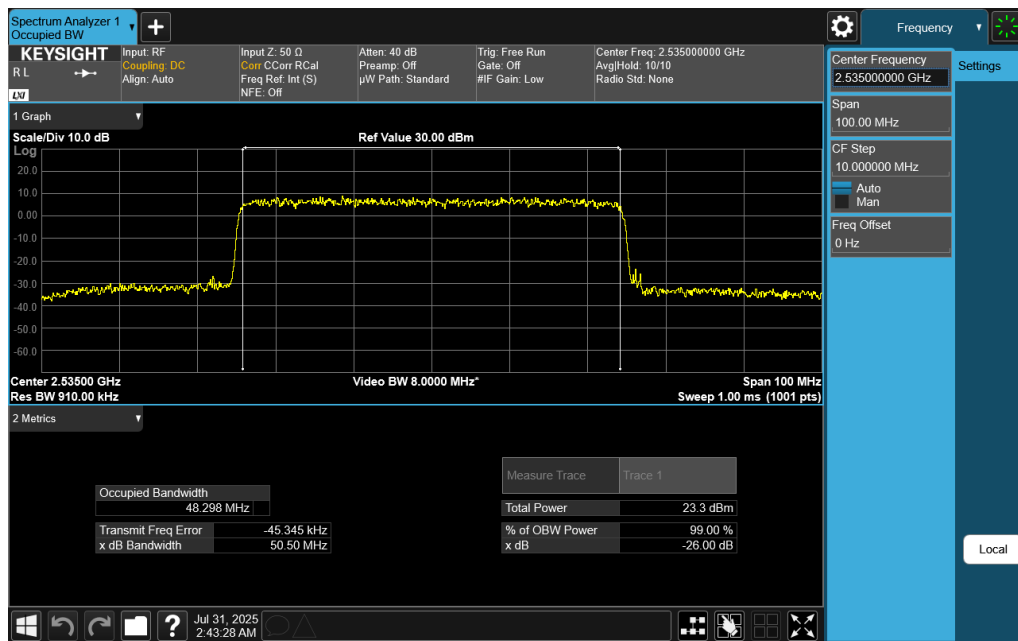


Plot 7-92. Occupied Bandwidth Plot (NR Band n7 - 50MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 63 of 318

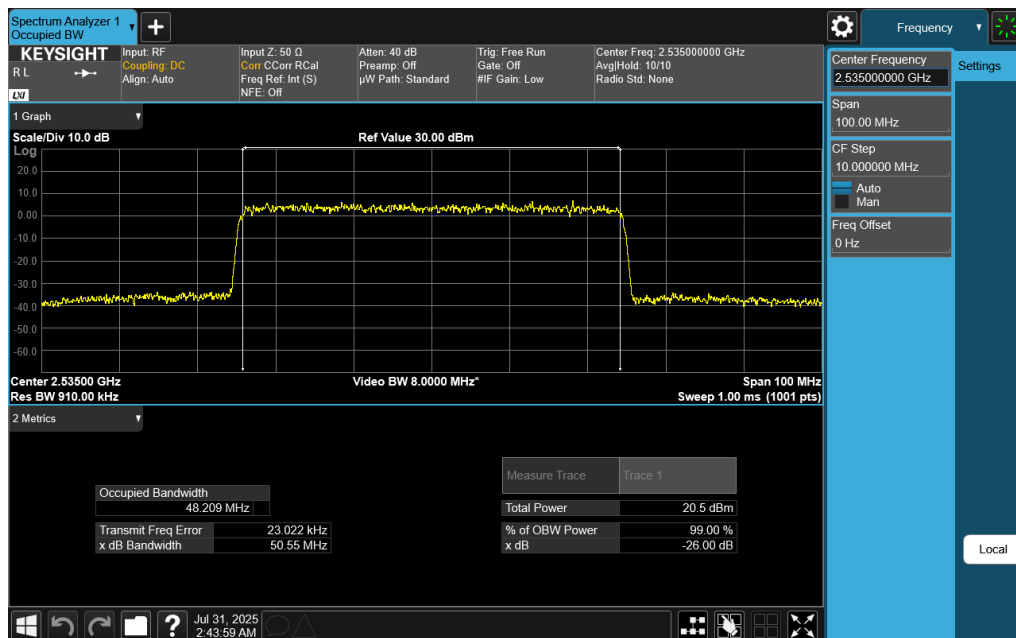


Plot 7-93. Occupied Bandwidth Plot (NR Band n7 - 50MHz CP-OFDM 16-QAM - Full RB)



Plot 7-94. Occupied Bandwidth Plot (NR Band n7 - 50MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 64 of 318

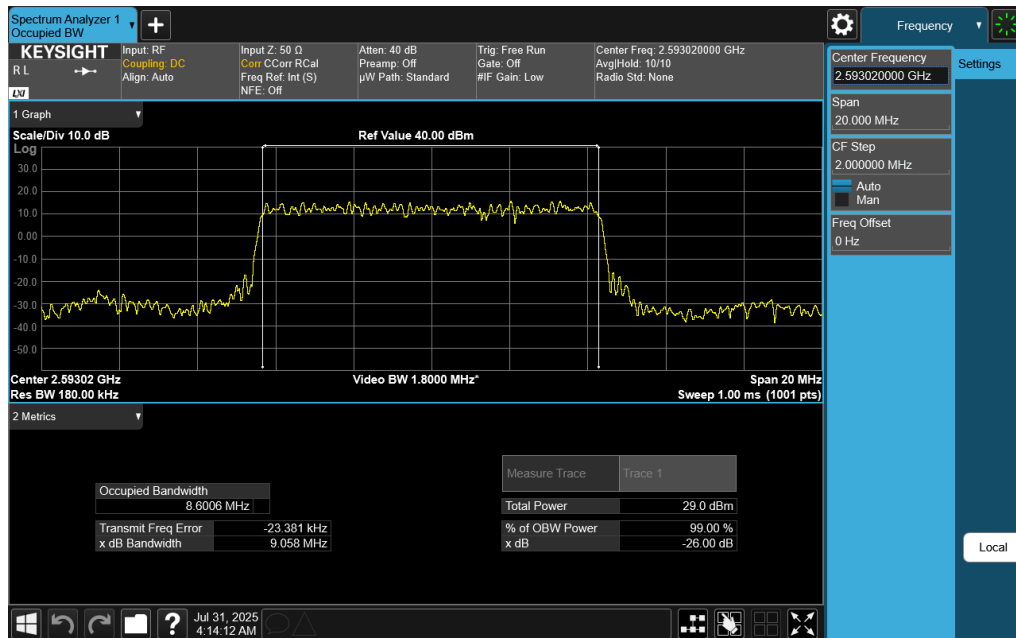


Plot 7-95. Occupied Bandwidth Plot (NR Band n7 - 50MHz CP-OFDM 256-QAM - Full RB)

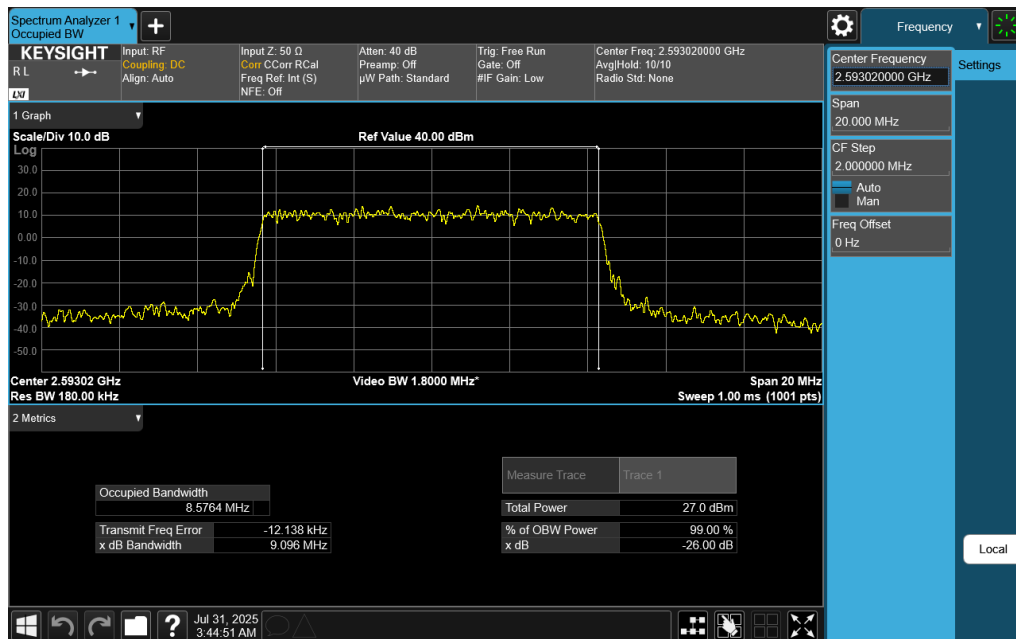
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 65 of 318

V2.2 09/07/2023

NR Band n41



Plot 7-96. Occupied Bandwidth Plot (NR Band n41 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

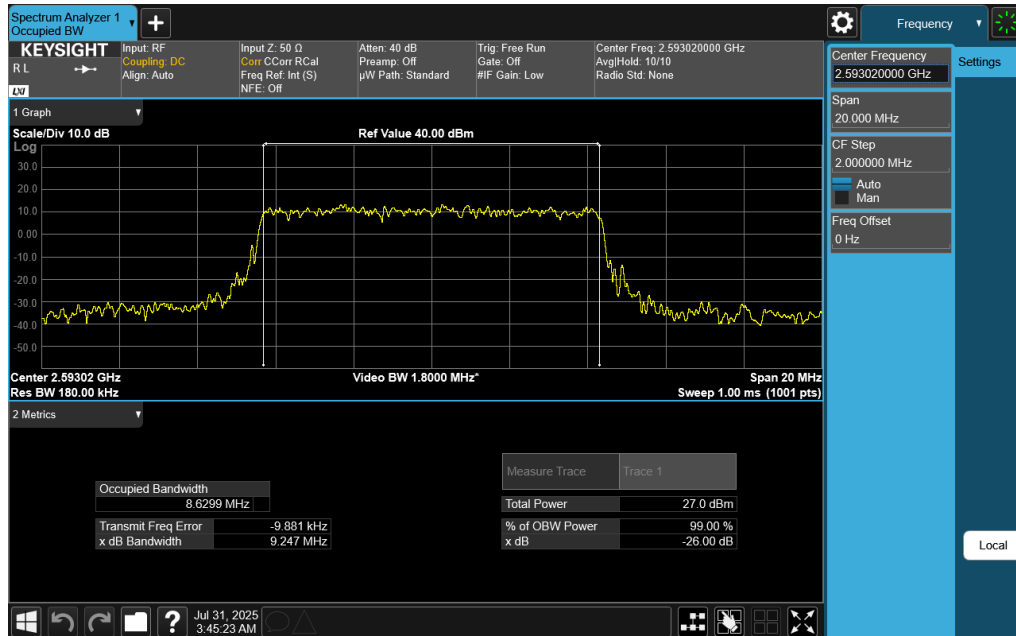


Plot 7-97. Occupied Bandwidth Plot (NR Band n41 - 10MHz CP-OFDM QPSK - Full RB)

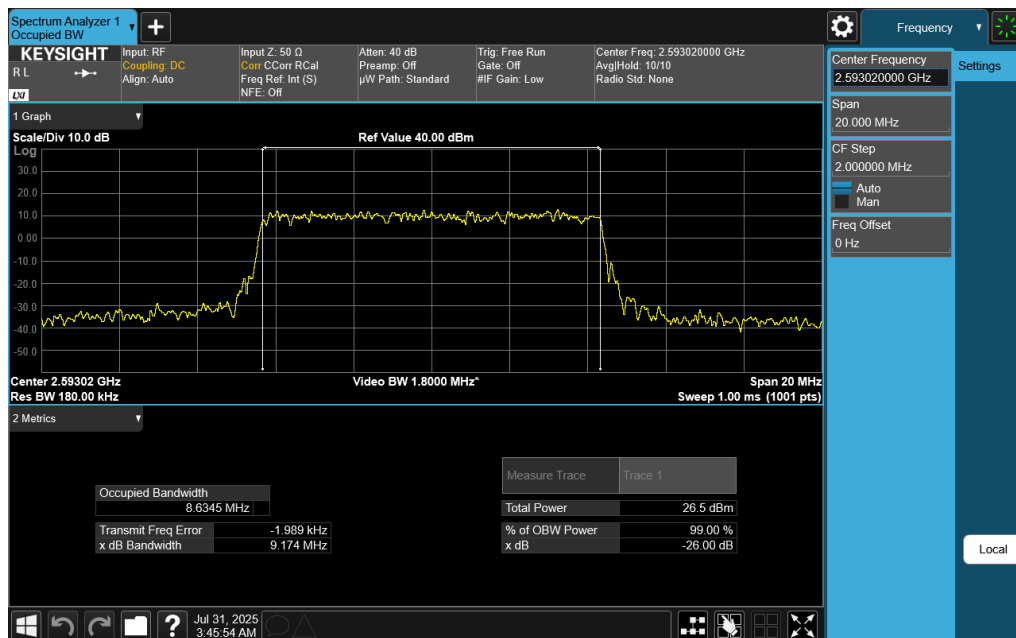
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 66 of 318

V2.2 09/07/2023

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Plot 7-98. Occupied Bandwidth Plot (NR Band n41 - 10MHz CP-OFDM 16-QAM - Full RB)

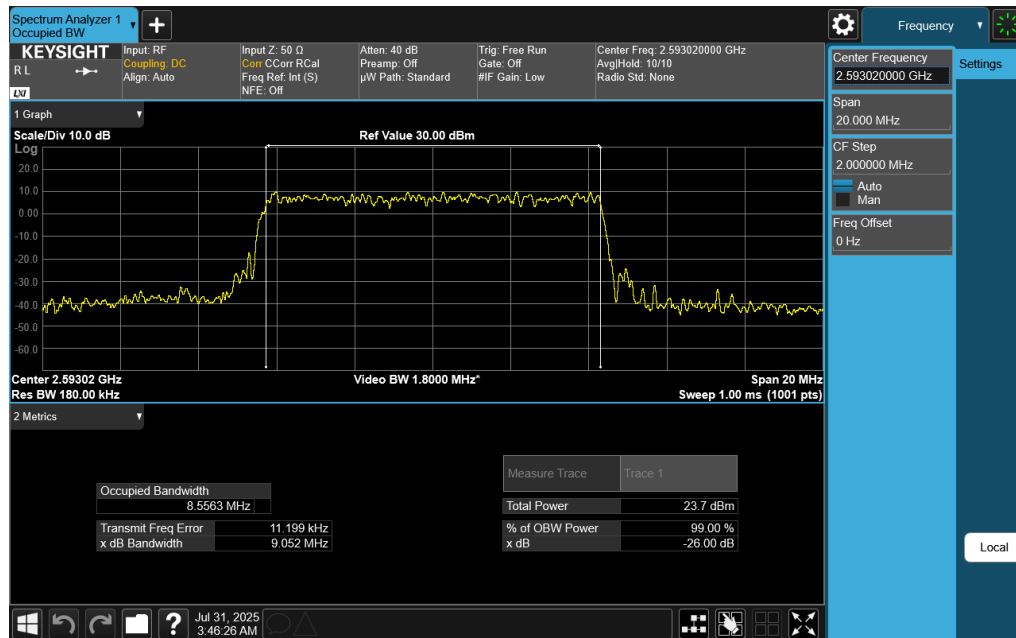


Plot 7-99. Occupied Bandwidth Plot (NR Band n41 - 10MHz CP-OFDM 64-QAM - Full RB)

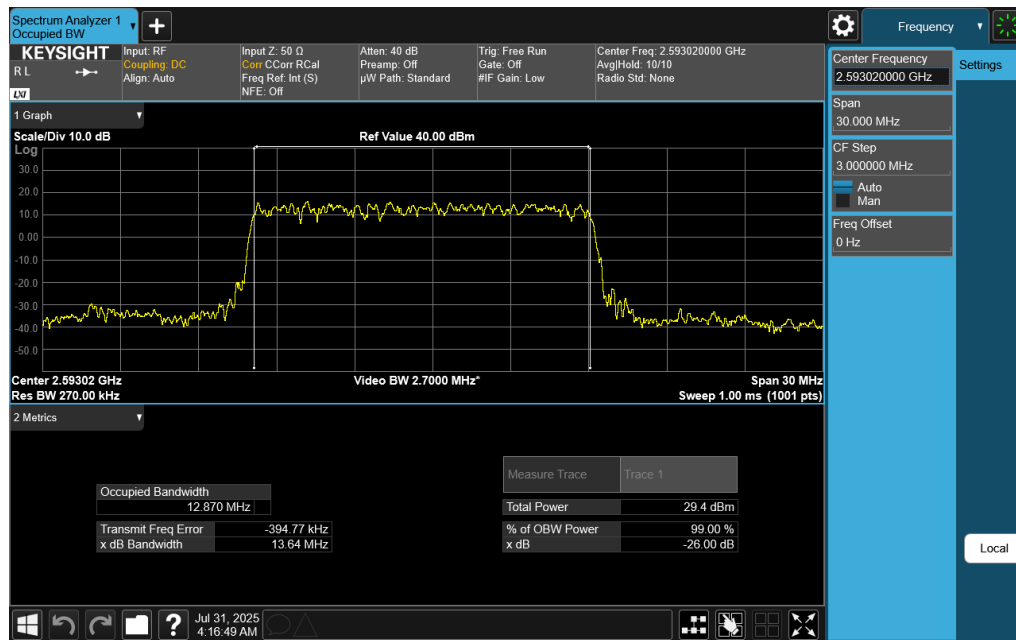
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 67 of 318

V2.2 09/07/2023

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Plot 7-100. Occupied Bandwidth Plot (NR Band n41 - 10MHz CP-OFDM 256-QAM - Full RB)

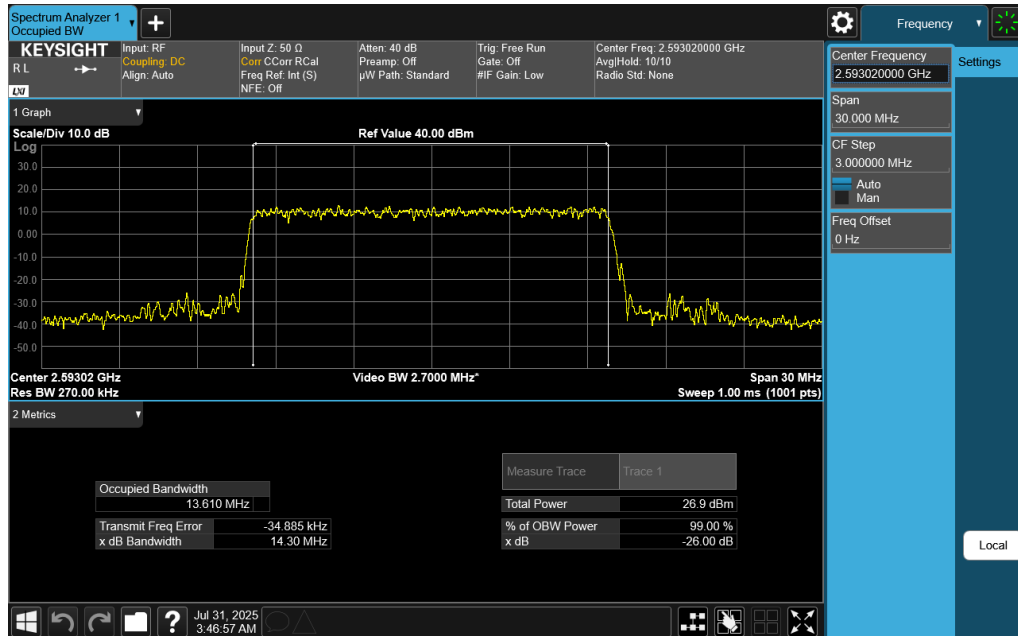


Plot 7-101. Occupied Bandwidth Plot (NR Band n41 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

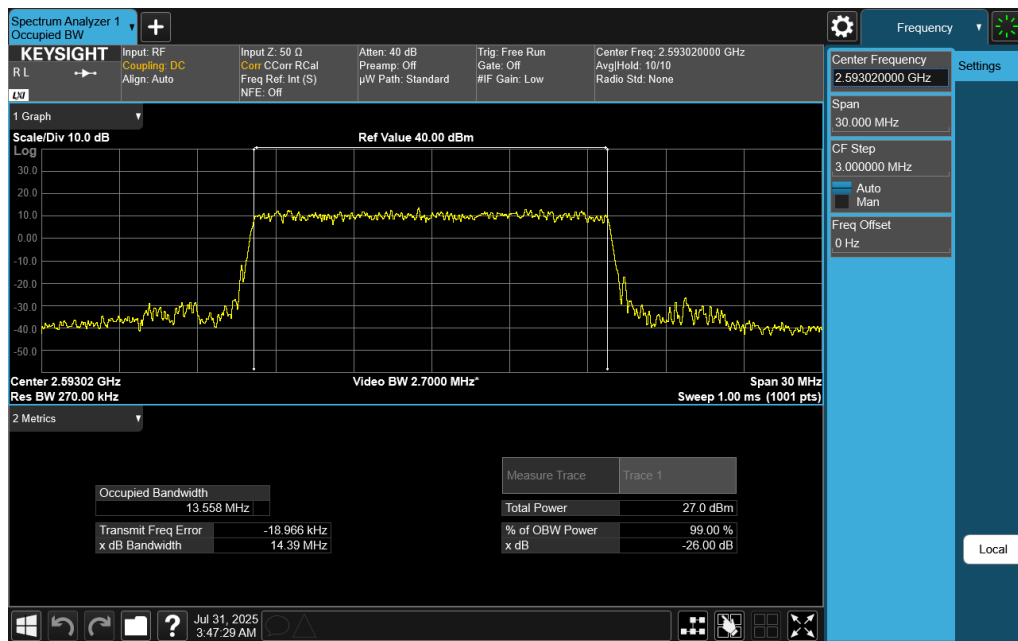
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 68 of 318

V2.2 09/07/2023

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Plot 7-102. Occupied Bandwidth Plot (NR Band n41 - 15MHz CP-OFDM QPSK - Full RB)



Plot 7-103. Occupied Bandwidth Plot (NR Band n41 - 15MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2509100082-10-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 69 of 318

V2.2 09/07/2023

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