**PART 27 MEASUREMENT REPORT****Applicant Name:**

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

Date of Testing:

5/9/2025 - 8/7/2025

Test Report Issue Date:

9/9/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170041-11.BCG

FCC ID:

BCGA3361

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3361, A3362

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.

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: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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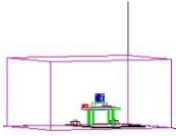
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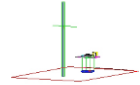
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Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device	Page 2 of 257

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PART 27 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]	
NR Band n77 (PC2) (3450 - 3550MHz)	10 MHz	TT/2 BPSK	3455.0 - 3545.0	8.5761	4.10	0.633	28.02	8M58G7W
		QPSK	3455.0 - 3545.0	8.5475	4.75	0.643	28.08	8M55G7W
		16QAM	3455.0 - 3545.0	8.6301	5.98	0.484	26.85	8M63D7W
		64QAM	3455.0 - 3545.0	8.5713	6.30	0.421	26.25	8M57D7W
	15 MHz	256QAM	3455.0 - 3545.0	8.6420	6.53	0.265	24.23	8M64D7W
		TT/2 BPSK	3457.5 - 3542.5	12.9012	4.09	0.629	27.98	12M9G7W
		QPSK	3457.5 - 3542.5	13.6151	4.92	0.634	28.02	13M6G7W
		16QAM	3457.5 - 3542.5	13.6062	5.81	0.501	27.00	13M6D7W
	20 MHz	64QAM	3457.5 - 3542.5	13.6061	6.53	0.407	26.10	13M6D7W
		256QAM	3457.5 - 3542.5	13.6507	6.53	0.258	24.12	13M7D7W
		TT/2 BPSK	3460.0 - 3540.0	17.8984	4.11	0.628	27.98	17M9G7W
		QPSK	3460.0 - 3540.0	18.3563	4.91	0.630	28.00	18M4G7W
	25 MHz	16QAM	3460.0 - 3540.0	18.2245	5.79	0.491	26.91	18M2D7W
		64QAM	3460.0 - 3540.0	18.2919	6.40	0.400	26.02	18M3D7W
		256QAM	3460.0 - 3540.0	18.2973	6.61	0.256	24.08	18M3D7W
		TT/2 BPSK	3462.5 - 3537.5	22.8440	4.07	0.629	27.98	22M8G7W
	30 MHz	QPSK	3462.5 - 3537.5	23.2966	4.99	0.619	27.92	23M3G7W
		16QAM	3462.5 - 3537.5	23.3055	5.79	0.489	26.90	23M3D7W
		64QAM	3462.5 - 3537.5	23.2305	6.27	0.409	26.12	23M2D7W
		256QAM	3462.5 - 3537.5	23.2335	6.48	0.257	24.10	23M2D7W
	40 MHz	TT/2 BPSK	3465.0 - 3535.0	26.8250	4.12	0.631	28.00	26M8G7W
		QPSK	3465.0 - 3535.0	27.9311	4.97	0.638	28.05	27M9G7W
		16QAM	3465.0 - 3535.0	27.7986	5.78	0.482	26.83	27M8D7W
		64QAM	3465.0 - 3535.0	27.8587	6.40	0.401	26.03	27M9D7W
	50 MHz	256QAM	3465.0 - 3535.0	27.9767	6.61	0.251	23.99	28M0D7W
		TT/2 BPSK	3470.0 - 3530.0	35.8186	4.35	0.631	28.00	35M8G7W
		QPSK	3470.0 - 3530.0	37.9845	5.14	0.615	27.89	38M0G7W
		16QAM	3470.0 - 3530.0	37.9746	5.75	0.491	26.91	38M0D7W
	60 MHz	64QAM	3470.0 - 3530.0	37.8914	6.37	0.394	25.96	37M9D7W
		256QAM	3470.0 - 3530.0	37.8156	6.52	0.249	23.97	37M8D7W
		TT/2 BPSK	3475.0 - 3525.0	45.7251	4.36	0.627	27.97	45M7G7W
		QPSK	3475.0 - 3525.0	47.4970	5.01	0.603	27.80	47M5G7W
	70 MHz	16QAM	3475.0 - 3525.0	47.5794	5.81	0.481	26.82	47M6D7W
		64QAM	3475.0 - 3525.0	47.4247	6.40	0.393	25.94	47M4D7W
		256QAM	3475.0 - 3525.0	47.5052	6.50	0.245	23.89	47M5D7W
		TT/2 BPSK	3480.0 - 3520.0	57.9241	4.19	0.622	27.94	57M9G7W
	80 MHz	QPSK	3480.0 - 3520.0	57.9627	4.85	0.625	27.96	58M0G7W
		16QAM	3480.0 - 3520.0	57.9893	5.79	0.487	26.88	58M0D7W
		64QAM	3480.0 - 3520.0	57.9405	6.41	0.380	25.79	57M9D7W
		256QAM	3480.0 - 3520.0	58.0864	6.61	0.243	23.86	58M1D7W
	90 MHz	TT/2 BPSK	3485.0 - 3515.0	64.3425	4.20	0.610	27.85	64M3G7W
		QPSK	3485.0 - 3515.0	67.5766	4.85	0.598	27.77	67M6G7W
		16QAM	3485.0 - 3515.0	67.6207	5.77	0.509	27.06	67M6D7W
		64QAM	3485.0 - 3515.0	67.7459	6.35	0.378	25.78	67M7D7W
	100 MHz	256QAM	3485.0 - 3515.0	67.5767	6.62	0.244	23.87	67M6D7W
		TT/2 BPSK	3490.0 - 3510.0	77.1401	4.66	0.617	27.90	77M1G7W
		QPSK	3490.0 - 3510.0	77.6674	5.00	0.622	27.94	77M7G7W
		16QAM	3490.0 - 3510.0	77.5310	5.74	0.484	26.85	77M5D7W
	110 MHz	64QAM	3490.0 - 3510.0	77.6787	6.33	0.379	25.79	77M7D7W
		256QAM	3490.0 - 3510.0	77.5826	6.59	0.243	23.85	77M6D7W
		TT/2 BPSK	3495.0 - 3505.0	86.5908	4.16	0.610	27.85	86M6G7W
		QPSK	3495.0 - 3505.0	87.5239	4.90	0.606	27.83	87M5G7W
	120 MHz	16QAM	3495.0 - 3505.0	87.7122	5.76	0.434	26.37	87M7D7W
		64QAM	3495.0 - 3505.0	87.6284	6.41	0.341	25.32	87M6D7W
		256QAM	3495.0 - 3505.0	87.6978	6.66	0.215	23.33	87M7D7W
		TT/2 BPSK	3500	96.2240	4.75	0.615	27.89	96M2G7W
	130 MHz	QPSK	3500	97.5240	5.02	0.593	27.73	97M5G7W
		16QAM	3500	97.4016	5.79	0.454	26.57	97M4D7W
		64QAM	3500	97.5001	6.35	0.391	25.92	97M5D7W
		256QAM	3500	97.5865	6.68	0.243	23.86	97M6D7W

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 n77 (PC3) (3450 - 3550MHz)	10 MHz	$\pi/2$ BPSK	3455.0 - 3545.0	8.5761	4.10	0.406	26.08	8M58G7W
		QPSK	3455.0 - 3545.0	8.5475	4.75	0.405	26.08	8M55G7W
		16QAM	3455.0 - 3545.0	8.6301	5.98	0.306	24.86	8M63D7W
		64QAM	3455.0 - 3545.0	8.5713	6.30	0.263	24.20	8M57D7W
		256QAM	3455.0 - 3545.0	8.6420	6.53	0.167	22.22	8M64D7W
	15 MHz	$\pi/2$ BPSK	3457.5 - 3542.5	12.9012	4.09	0.395	25.97	12M9G7W
		QPSK	3457.5 - 3542.5	13.6151	4.92	0.399	26.01	13M6G7W
		16QAM	3457.5 - 3542.5	13.6062	5.81	0.308	24.89	13M6D7W
		64QAM	3457.5 - 3542.5	13.6061	6.53	0.257	24.10	13M6D7W
		256QAM	3457.5 - 3542.5	13.6507	6.53	0.163	22.12	13M7D7W
	20 MHz	$\pi/2$ BPSK	3460.0 - 3540.0	17.8984	4.11	0.395	25.97	17M9G7W
		QPSK	3460.0 - 3540.0	18.3563	4.91	0.397	25.99	18M4G7W
		16QAM	3460.0 - 3540.0	18.2245	5.79	0.307	24.88	18M2D7W
		64QAM	3460.0 - 3540.0	18.2919	6.40	0.254	24.06	18M3D7W
		256QAM	3460.0 - 3540.0	18.2973	6.61	0.162	22.10	18M3D7W
	25 MHz	$\pi/2$ BPSK	3462.5 - 3537.5	22.8440	4.07	0.399	26.01	22M8G7W
		QPSK	3462.5 - 3537.5	23.2966	4.99	0.421	26.24	23M3G7W
		16QAM	3462.5 - 3537.5	23.3055	5.79	0.299	24.76	23M3D7W
		64QAM	3462.5 - 3537.5	23.2305	6.27	0.258	24.12	23M2D7W
		256QAM	3462.5 - 3537.5	23.2335	6.48	0.163	22.12	23M2D7W
	30 MHz	$\pi/2$ BPSK	3465.0 - 3535.0	26.8250	4.12	0.399	26.01	26M8G7W
		QPSK	3465.0 - 3535.0	27.9311	4.97	0.407	26.09	27M9G7W
		16QAM	3465.0 - 3535.0	27.7986	5.78	0.309	24.90	27M8D7W
		64QAM	3465.0 - 3535.0	27.8587	6.40	0.259	24.13	27M9D7W
		256QAM	3465.0 - 3535.0	27.9767	6.61	0.162	22.10	28M0D7W
	40 MHz	$\pi/2$ BPSK	3470.0 - 3530.0	35.8186	4.35	0.401	26.03	35M8G7W
		QPSK	3470.0 - 3530.0	37.9845	5.14	0.404	26.07	38M0G7W
		16QAM	3470.0 - 3530.0	37.9746	5.75	0.306	24.86	38M0D7W
		64QAM	3470.0 - 3530.0	37.8914	6.37	0.251	23.99	37M9D7W
		256QAM	3470.0 - 3530.0	37.8156	6.52	0.159	22.00	37M8D7W
	50 MHz	$\pi/2$ BPSK	3475.0 - 3525.0	45.7251	4.36	0.406	26.09	45M7G7W
		QPSK	3475.0 - 3525.0	47.4970	5.01	0.392	25.93	47M5G7W
		16QAM	3475.0 - 3525.0	47.5794	5.81	0.312	24.93	47M6D7W
		64QAM	3475.0 - 3525.0	47.4247	6.40	0.257	24.09	47M4D7W
		256QAM	3475.0 - 3525.0	47.5052	6.50	0.161	22.07	47M5D7W
	60 MHz	$\pi/2$ BPSK	3480.0 - 3520.0	57.9241	4.19	0.393	25.94	57M9G7W
		QPSK	3480.0 - 3520.0	57.9627	4.85	0.395	25.97	58M0G7W
		16QAM	3480.0 - 3520.0	57.9893	5.79	0.311	24.92	58M0D7W
		64QAM	3480.0 - 3520.0	57.9405	6.41	0.246	23.91	57M9D7W
		256QAM	3480.0 - 3520.0	58.0864	6.61	0.155	21.90	58M1D7W
	70 MHz	$\pi/2$ BPSK	3485.0 - 3515.0	64.3425	4.20	0.386	25.86	64M3G7W
		QPSK	3485.0 - 3515.0	67.5766	4.85	0.400	26.02	67M6G7W
		16QAM	3485.0 - 3515.0	67.6207	5.77	0.302	24.80	67M6D7W
		64QAM	3485.0 - 3515.0	67.7459	6.35	0.242	23.83	67M7D7W
		256QAM	3485.0 - 3515.0	67.5767	6.62	0.152	21.83	67M6D7W
	80 MHz	$\pi/2$ BPSK	3490.0 - 3510.0	77.1401	4.66	0.386	25.86	77M1G7W
		QPSK	3490.0 - 3510.0	77.6674	5.00	0.400	26.03	77M7G7W
		16QAM	3490.0 - 3510.0	77.5310	5.74	0.301	24.78	77M5D7W
		64QAM	3490.0 - 3510.0	77.6787	6.33	0.242	23.84	77M7D7W
		256QAM	3490.0 - 3510.0	77.5826	6.59	0.153	21.86	77M6D7W
	90 MHz	$\pi/2$ BPSK	3495.0 - 3505.0	86.5908	4.16	0.395	25.96	86M6G7W
		QPSK	3495.0 - 3505.0	87.5239	4.90	0.397	25.99	87M5G7W
		16QAM	3495.0 - 3505.0	87.7122	5.76	0.302	24.79	87M7D7W
		64QAM	3495.0 - 3505.0	87.6284	6.41	0.243	23.85	87M6D7W
		256QAM	3495.0 - 3505.0	87.6978	6.66	0.153	21.86	87M7D7W
	100 MHz	$\pi/2$ BPSK	3500	96.2240	4.75	0.405	26.08	96M2G7W
		QPSK	3500	97.5240	5.02	0.396	25.97	97M5G7W
		16QAM	3500	97.4016	5.79	0.313	24.96	97M4D7W
		64QAM	3500	97.5001	6.35	0.239	23.79	97M5D7W
		256QAM	3500	97.5865	6.68	0.155	21.91	97M6D7W

EUT Overview

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Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device	Page 4 of 257

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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 n77 (PC2) (3700 - 3980MHz)	10 MHz	$\pi/2$ BPSK	3705.0 - 3975.0	8.5980	3.94	0.536	27.29	8M60G7W
		QPSK	3705.0 - 3975.0	8.5939	4.62	0.535	27.29	8M59G7W
		16QAM	3705.0 - 3975.0	8.6209	5.84	0.408	26.11	8M62D7W
		64QAM	3705.0 - 3975.0	8.5572	6.20	0.351	25.45	8M56D7W
		256QAM	3705.0 - 3975.0	8.6000	6.49	0.220	23.43	8M60D7W
	15 MHz	$\pi/2$ BPSK	3707.5 - 3972.5	12.7804	3.89	0.535	27.28	12M8G7W
		QPSK	3707.5 - 3972.5	13.5578	4.80	0.532	27.26	13M6G7W
		16QAM	3707.5 - 3972.5	13.5079	5.72	0.428	26.31	13M5D7W
		64QAM	3707.5 - 3972.5	13.5877	6.39	0.343	25.35	13M6D7W
		256QAM	3707.5 - 3972.5	13.6476	6.49	0.219	23.40	13M6D7W
	20 MHz	$\pi/2$ BPSK	3710.0 - 3970.0	17.8666	3.96	0.541	27.33	17M9G7W
		QPSK	3710.0 - 3970.0	18.3082	4.71	0.536	27.29	18M3G7W
		16QAM	3710.0 - 3970.0	18.2931	5.67	0.436	26.40	18M3D7W
		64QAM	3710.0 - 3970.0	18.2864	6.25	0.343	25.36	18M3D7W
		256QAM	3710.0 - 3970.0	18.2704	6.56	0.223	23.49	18M3D7W
	25MHz	$\pi/2$ BPSK	3712.5 - 3967.5	22.9105	3.76	0.554	27.43	22M9G7W
		QPSK	3712.5 - 3967.5	23.2508	4.78	0.544	27.35	23M3G7W
		16QAM	3712.5 - 3967.5	23.2639	5.67	0.421	26.24	23M3D7W
		64QAM	3712.5 - 3967.5	23.3553	6.14	0.356	25.52	23M4D7W
		256QAM	3712.5 - 3967.5	23.1617	6.40	0.224	23.51	23M2D7W
	30MHz	$\pi/2$ BPSK	3715.0 - 3965.0	26.9151	3.87	0.548	27.39	26M9G7W
		QPSK	3715.0 - 3965.0	27.8506	4.82	0.559	27.48	27M9G7W
		16QAM	3715.0 - 3965.0	27.9403	5.68	0.437	26.41	27M9D7W
		64QAM	3715.0 - 3965.0	27.9953	6.27	0.352	25.47	28M0D7W
		256QAM	3715.0 - 3965.0	27.8831	6.48	0.219	23.40	27M9D7W
	40 MHz	$\pi/2$ BPSK	3720.0 - 3960.0	35.8379	4.30	0.558	27.46	35M8G7W
		QPSK	3720.0 - 3960.0	37.8476	4.93	0.555	27.44	37M8G7W
		16QAM	3720.0 - 3960.0	37.8617	5.76	0.421	26.25	37M9D7W
		64QAM	3720.0 - 3960.0	37.8210	6.17	0.351	25.45	37M8D7W
		256QAM	3720.0 - 3960.0	37.9171	6.46	0.221	23.45	37M9D7W
	50 MHz	$\pi/2$ BPSK	3725.0 - 3955.0	45.6339	4.31	0.571	27.56	45M6G7W
		QPSK	3725.0 - 3955.0	47.5775	4.83	0.551	27.41	47M6G7W
		16QAM	3725.0 - 3955.0	47.5731	5.90	0.420	26.24	47M6D7W
		64QAM	3725.0 - 3955.0	47.4744	6.31	0.360	25.57	47M5D7W
		256QAM	3725.0 - 3955.0	47.5756	6.49	0.224	23.50	47M6D7W
	60 MHz	$\pi/2$ BPSK	3730.0 - 3950.0	57.8268	4.37	0.554	27.43	57M8G7W
		QPSK	3730.0 - 3950.0	57.9676	4.76	0.550	27.40	58M0G7W
		16QAM	3730.0 - 3950.0	57.9523	5.96	0.446	26.49	58M0D7W
		64QAM	3730.0 - 3950.0	58.0959	6.29	0.349	25.43	58M1D7W
		256QAM	3730.0 - 3950.0	57.9682	6.60	0.219	23.40	58M0D7W
	70 MHz	$\pi/2$ BPSK	3735.0 - 3945.0	64.4653	3.85	0.547	27.38	64M5G7W
		QPSK	3735.0 - 3945.0	67.5857	4.55	0.538	27.31	67M6G7W
		16QAM	3735.0 - 3945.0	67.5549	5.98	0.431	26.35	67M6D7W
		64QAM	3735.0 - 3945.0	67.5655	6.24	0.346	25.39	67M6D7W
		256QAM	3735.0 - 3945.0	67.5645	6.65	0.219	23.40	67M6D7W
	80 MHz	$\pi/2$ BPSK	3740.0 - 3940.0	77.2796	4.25	0.556	27.45	77M3G7W
		QPSK	3740.0 - 3940.0	77.6246	4.92	0.551	27.41	77M6G7W
		16QAM	3740.0 - 3940.0	77.6537	6.16	0.436	26.39	77M7D7W
		64QAM	3740.0 - 3940.0	77.8626	6.31	0.354	25.49	77M9D7W
		256QAM	3740.0 - 3940.0	77.5071	6.70	0.222	23.46	77M5D7W
	90 MHz	$\pi/2$ BPSK	3745.0 - 3935.0	86.9653	4.30	0.550	27.40	87M0G7W
		QPSK	3745.0 - 3935.0	87.6281	5.00	0.550	27.40	87M6G7W
		16QAM	3745.0 - 3935.0	87.5908	6.35	0.420	26.24	87M6D7W
		64QAM	3745.0 - 3935.0	87.5218	6.58	0.346	25.40	87M5D7W
		256QAM	3745.0 - 3935.0	87.7797	6.79	0.221	23.43	87M8D7W
	100 MHz	$\pi/2$ BPSK	3750.0 - 3930.0	96.4847	4.55	0.551	27.41	96M5G7W
		QPSK	3750.0 - 3930.0	97.4543	5.17	0.552	27.42	97M5G7W
		16QAM	3750.0 - 3930.0	97.4645	6.48	0.413	26.16	97M5D7W
		64QAM	3750.0 - 3930.0	97.3976	6.69	0.351	25.45	97M4D7W
		256QAM	3750.0 - 3930.0	97.4182	6.86	0.220	23.42	97M4D7W

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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 n77 (PC3) (3700 - 3980MHz)	10 MHz	$\pi/2$ BPSK	3705.0 - 3975.0	8.5980	3.94	0.367	25.64	8M60G7W
		QPSK	3705.0 - 3975.0	8.5939	4.62	0.364	25.61	8M59G7W
		16QAM	3705.0 - 3975.0	8.6209	5.84	0.282	24.50	8M62D7W
		64QAM	3705.0 - 3975.0	8.5572	6.20	0.237	23.75	8M56D7W
		256QAM	3705.0 - 3975.0	8.6000	6.49	0.150	21.75	8M60D7W
	15 MHz	$\pi/2$ BPSK	3707.5 - 3972.5	12.7804	3.89	0.361	25.57	12M8G7W
		QPSK	3707.5 - 3972.5	13.5578	4.80	0.377	25.77	13M6G7W
		16QAM	3707.5 - 3972.5	13.5079	5.72	0.273	24.37	13M5D7W
		64QAM	3707.5 - 3972.5	13.5877	6.39	0.230	23.61	13M6D7W
		256QAM	3707.5 - 3972.5	13.6476	6.49	0.148	21.69	13M6D7W
	20 MHz	$\pi/2$ BPSK	3710.0 - 3970.0	17.8666	3.96	0.364	25.62	17M9G7W
		QPSK	3710.0 - 3970.0	18.3082	4.71	0.360	25.56	18M3G7W
		16QAM	3710.0 - 3970.0	18.2931	5.67	0.277	24.43	18M3D7W
		64QAM	3710.0 - 3970.0	18.2864	6.25	0.233	23.66	18M3D7W
		256QAM	3710.0 - 3970.0	18.2704	6.56	0.147	21.69	18M3D7W
	25MHz	$\pi/2$ BPSK	3712.5 - 3967.5	22.9105	3.76	0.369	25.67	22M9G7W
		QPSK	3712.5 - 3967.5	23.2508	4.78	0.359	25.55	23M3G7W
		16QAM	3712.5 - 3967.5	23.2639	5.67	0.286	24.57	23M3D7W
		64QAM	3712.5 - 3967.5	23.3553	6.14	0.238	23.76	23M4D7W
		256QAM	3712.5 - 3967.5	23.1617	6.40	0.149	21.74	23M2D7W
	30MHz	$\pi/2$ BPSK	3715.0 - 3965.0	26.9151	3.87	0.365	25.63	26M9G7W
		QPSK	3715.0 - 3965.0	27.8506	4.82	0.366	25.64	27M9G7W
		16QAM	3715.0 - 3965.0	27.9403	5.68	0.286	24.57	27M9D7W
		64QAM	3715.0 - 3965.0	27.9953	6.27	0.232	23.66	28M0D7W
		256QAM	3715.0 - 3965.0	27.8831	6.48	0.145	21.63	27M9D7W
	40 MHz	$\pi/2$ BPSK	3720.0 - 3960.0	35.8379	4.30	0.368	25.65	35M8G7W
		QPSK	3720.0 - 3960.0	37.8476	4.93	0.370	25.68	37M8G7W
		16QAM	3720.0 - 3960.0	37.8617	5.76	0.289	24.60	37M9D7W
		64QAM	3720.0 - 3960.0	37.8210	6.17	0.234	23.70	37M8D7W
		256QAM	3720.0 - 3960.0	37.9171	6.46	0.149	21.74	37M9D7W
	50 MHz	$\pi/2$ BPSK	3725.0 - 3955.0	45.6339	4.31	0.367	25.65	45M6G7W
		QPSK	3725.0 - 3955.0	47.5775	4.83	0.364	25.62	47M6G7W
		16QAM	3725.0 - 3955.0	47.5731	5.90	0.280	24.47	47M6D7W
		64QAM	3725.0 - 3955.0	47.4744	6.31	0.236	23.73	47M5D7W
		256QAM	3725.0 - 3955.0	47.5756	6.49	0.148	21.71	47M6D7W
	60 MHz	$\pi/2$ BPSK	3730.0 - 3950.0	57.8268	4.37	0.370	25.68	57M8G7W
		QPSK	3730.0 - 3950.0	57.9676	4.76	0.365	25.63	58M0G7W
		16QAM	3730.0 - 3950.0	57.9523	5.96	0.287	24.57	58M0D7W
		64QAM	3730.0 - 3950.0	58.0959	6.29	0.228	23.59	58M1D7W
		256QAM	3730.0 - 3950.0	57.9682	6.60	0.143	21.56	58M0D7W
	70 MHz	$\pi/2$ BPSK	3735.0 - 3945.0	64.4653	3.85	0.362	25.58	64M5G7W
		QPSK	3735.0 - 3945.0	67.5857	4.55	0.370	25.68	67M6G7W
		16QAM	3735.0 - 3945.0	67.5549	5.98	0.270	24.32	67M6D7W
		64QAM	3735.0 - 3945.0	67.5655	6.24	0.229	23.60	67M6D7W
		256QAM	3735.0 - 3945.0	67.5645	6.65	0.144	21.59	67M6D7W
	80 MHz	$\pi/2$ BPSK	3740.0 - 3940.0	77.2796	4.25	0.367	25.65	77M3G7W
		QPSK	3740.0 - 3940.0	77.6246	4.92	0.359	25.55	77M6G7W
		16QAM	3740.0 - 3940.0	77.6537	6.16	0.278	24.44	77M7D7W
		64QAM	3740.0 - 3940.0	77.8626	6.31	0.230	23.62	77M9D7W
		256QAM	3740.0 - 3940.0	77.5071	6.70	0.144	21.60	77M5D7W
	90 MHz	$\pi/2$ BPSK	3745.0 - 3935.0	86.9653	4.30	0.362	25.59	87M0G7W
		QPSK	3745.0 - 3935.0	87.6281	5.00	0.368	25.66	87M6G7W
		16QAM	3745.0 - 3935.0	87.5908	6.35	0.275	24.40	87M6D7W
		64QAM	3745.0 - 3935.0	87.5218	6.58	0.226	23.53	87M5D7W
		256QAM	3745.0 - 3935.0	87.7797	6.79	0.143	21.56	87M8D7W
	100 MHz	$\pi/2$ BPSK	3750.0 - 3930.0	96.4847	4.55	0.363	25.60	96M5G7W
		QPSK	3750.0 - 3930.0	97.4543	5.17	0.345	25.38	97M5G7W
		16QAM	3750.0 - 3930.0	97.4645	6.48	0.277	24.43	97M5D7W
		64QAM	3750.0 - 3930.0	97.3976	6.69	0.231	23.63	97M4D7W
		256QAM	3750.0 - 3930.0	97.4182	6.86	0.145	21.63	97M4D7W

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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:BCGA3361**. 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.: GXN4VKJ5GF, M7QW4VF4GQ, DQK4PG2D6J, H9HHG4000900000X4G, H9HHG40009S0000X4G

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 4a	Config 1	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 2	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 3	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 4	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 5	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 4a	Config 6	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 4a	Config 7	✗	✗	✓	✗	✗	✓	✗	✗	✗
Ant 2a	Config 8	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 10	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 11	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 12	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 2a	Config 13	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 2a	Config 14	✗	✗	✓	✗	✗	✓	✗	✗	✗

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 1 and reported in RF Bluetooth and RF UNII 5GHz OFDM 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 3	Antenna 1	Antenna 4b	Antenna 2b
NR Band n77 (Sub 1)	0.6	0.4	-0.9	-2.8
NR Band n77 (Sub 2)	0.1	0.5	-0.6	-2.6

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:	A246C	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-3. Test Support Equipment

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 23A256 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure.....None

3.2 Radiated Spurious Emissions

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

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

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

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

And

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

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.07
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz-1GHz)	4.85
Radiated Disturbance (1-18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	00240109
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
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	9/20/2024	Annual	9/20/2025	102327
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/30/2023	Annual	10/2/2025	191707
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

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.

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6.0 SAMPLE CALCULATIONS

Emission Designator

$\pi/2$ BPSK / QPSK Modulation

Emission Designator = 8M62G7W

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W

BW = 8.45 MHz

D = Amplitude/Angle Modulated

7 = Quantized/Digital Info

W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

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

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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.
 FCC ID: BCGA3361
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	N/A	Section 7.2
	Conducted Band Edge / Spurious Emissions (NR Band n77 - 3450-3550MHz)	2.1051, 27.53(n)(2)	-13 dBm at Band Edge and for all out-of-band emissions	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (NR Band n77 - 3700-3980MHz)	2.1051, 27.53(l)(2)		PASS	Sections 7.3, 7.4
	Peak-Average Ratio (NR Band n77 - 3450-3550MHz)	27.50(k)(4)	< 13 dB	PASS	Sections 7.5
	Peak-Average Ratio (NR Band n77 - 3700-3980MHz)	27.50(j)(4)		PASS	Sections 7.5
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Equivalent Isotropic Radiated Power (NR Band n77 - 3450-3550MHz)	27.50(k)(3)	< 1 Watts max. EIRP	PASS	Section 7.6
	Equivalent Isotropic Radiated Power (NR Band n77 - 3700-3980MHz)	27.50(j)(3)		PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block	PASS	Section 7.8
RADIATED	Radiated Spurious Emissions (NR Band n77 - 3450-3550MHz)	2.1051, 27.53(n)(2)	-13 dBm for all out-of-band emissions	PASS	Section 7.7
	Radiated Spurious Emissions (NR Band n77 - 3700-3980MHz)	2.1051, 27.53(l)(2)		PASS	Section 7.7

Table 7-1. Summary of Test Results

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Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized was Element EMC Software Tool v1.1.
5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

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7.2 Occupied Bandwidth

§2.1049

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

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

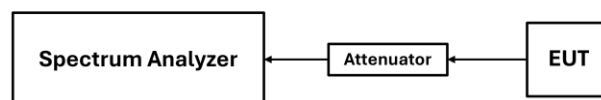


Figure 7-1. FR1 Test Instrument & Measurement Setup

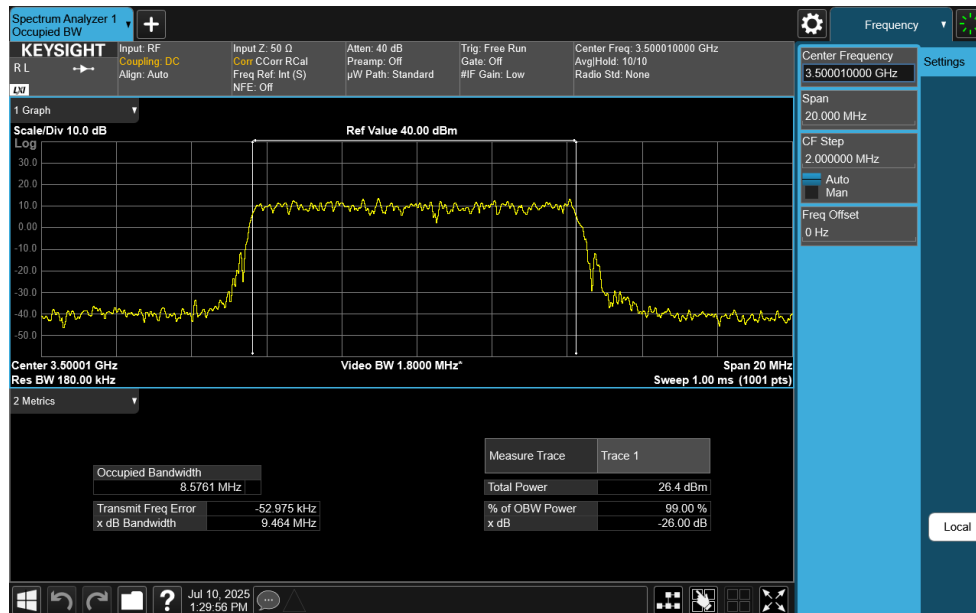
Test Notes

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.

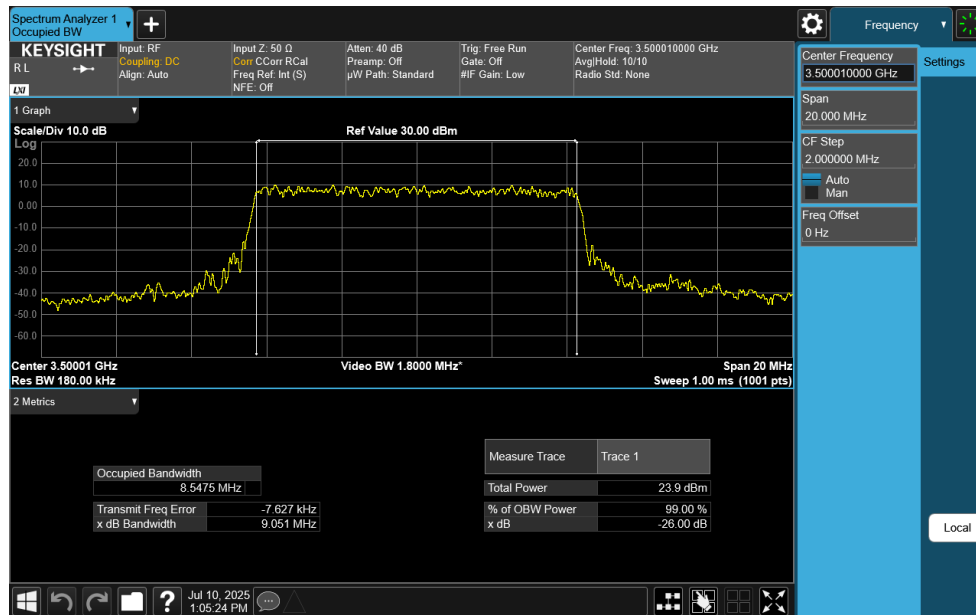
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NR Band n77 DoD-Band



Plot 7-1. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

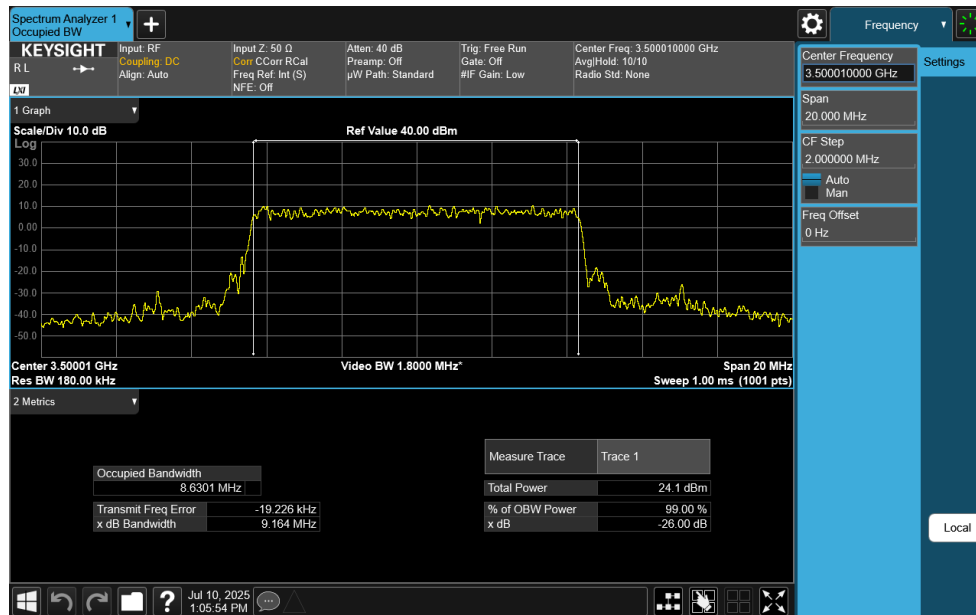


Plot 7-2. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM QPSK - Full RB)

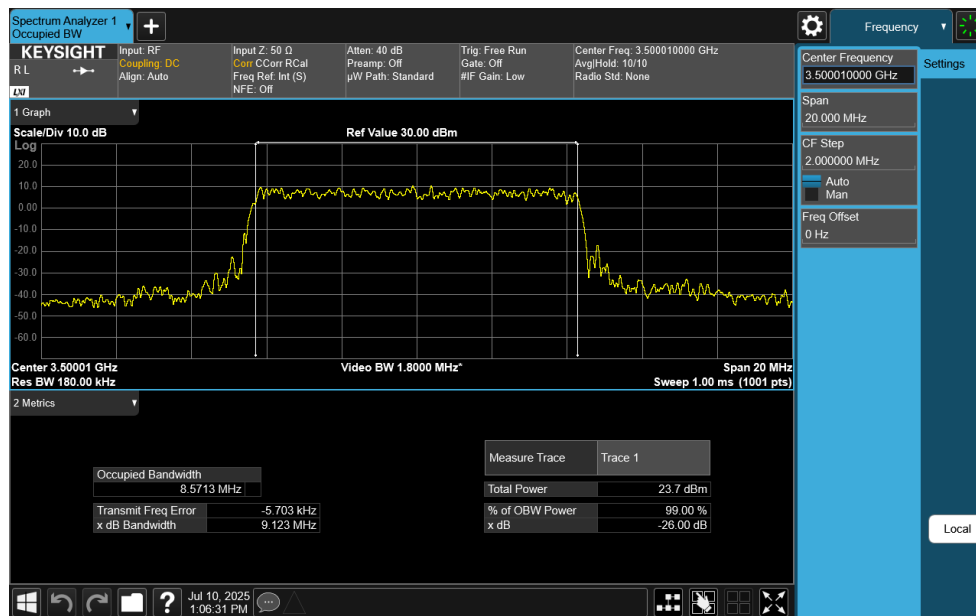
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-3. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 16-QAM - Full RB)

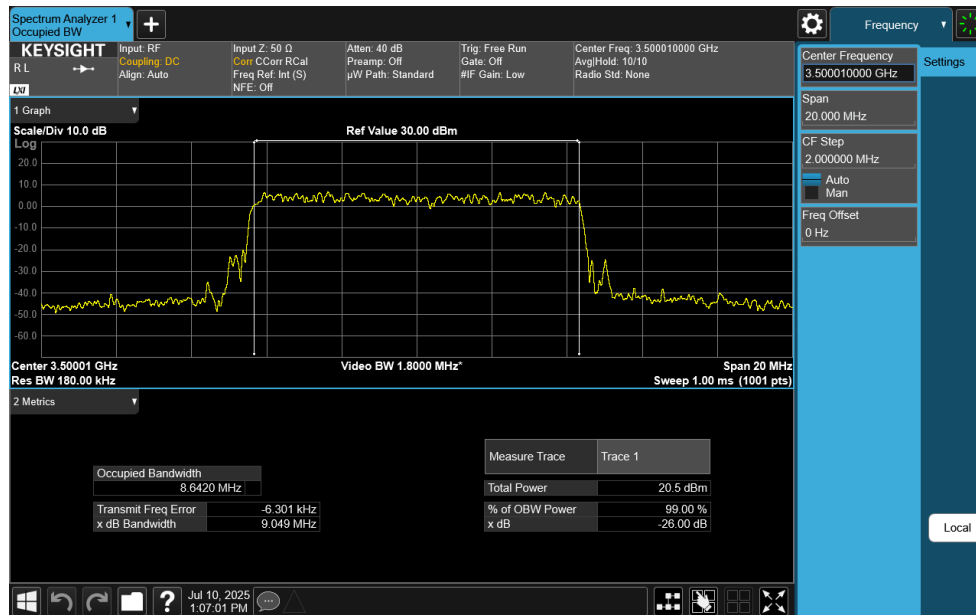


Plot 7-4. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 64-QAM - Full RB)

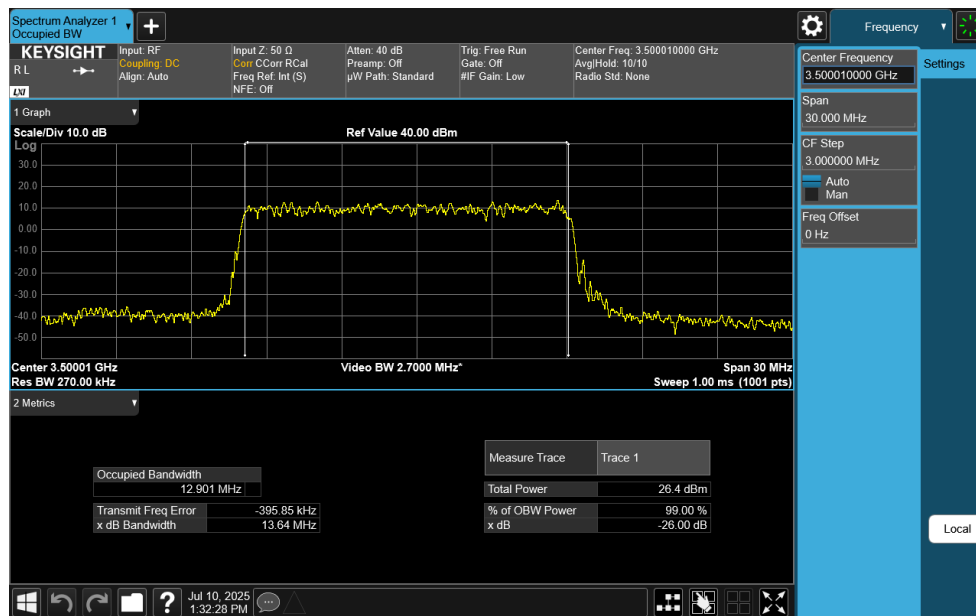
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-5. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 256-QAM - Full RB)

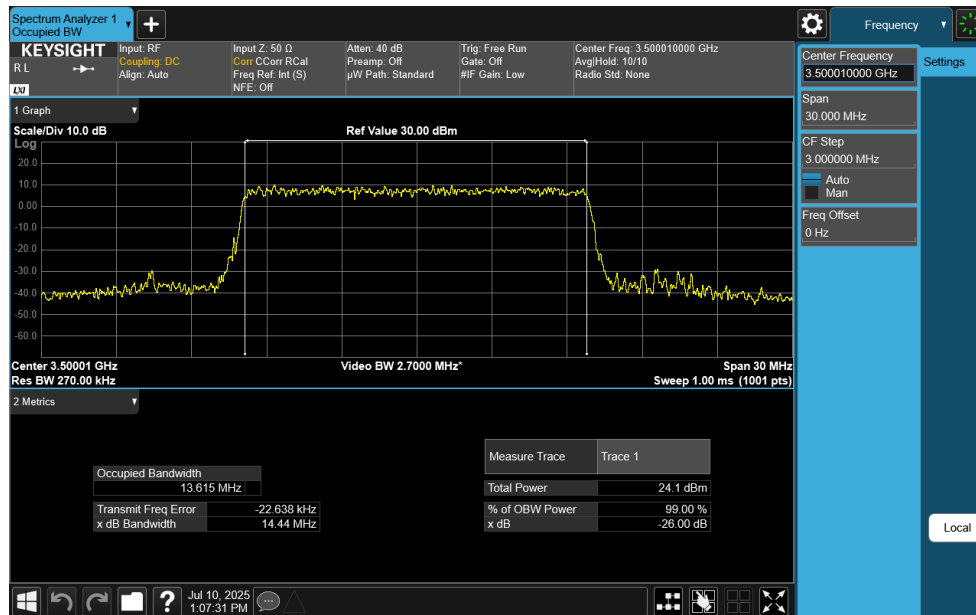


Plot 7-6. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

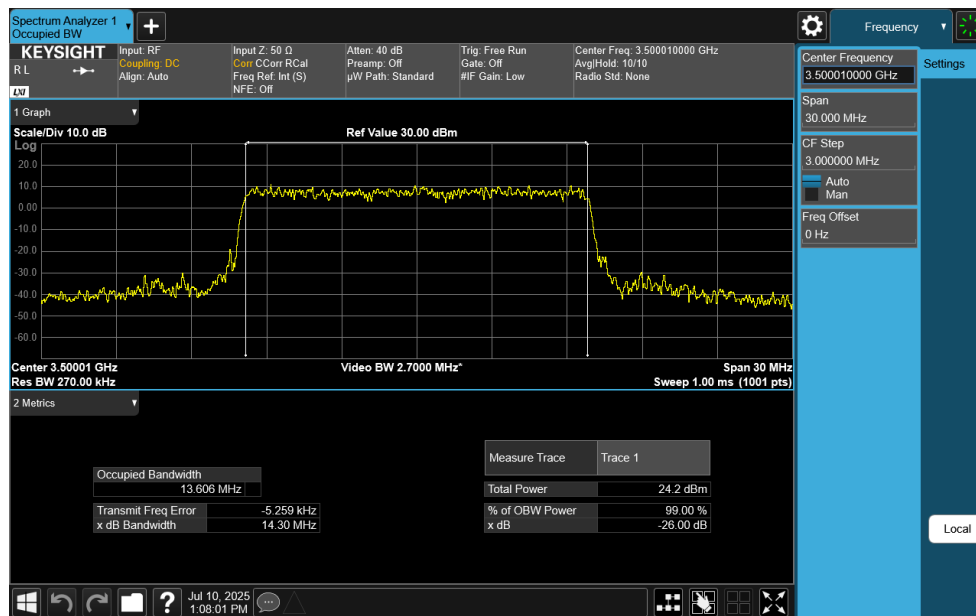
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-7. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM QPSK - Full RB)

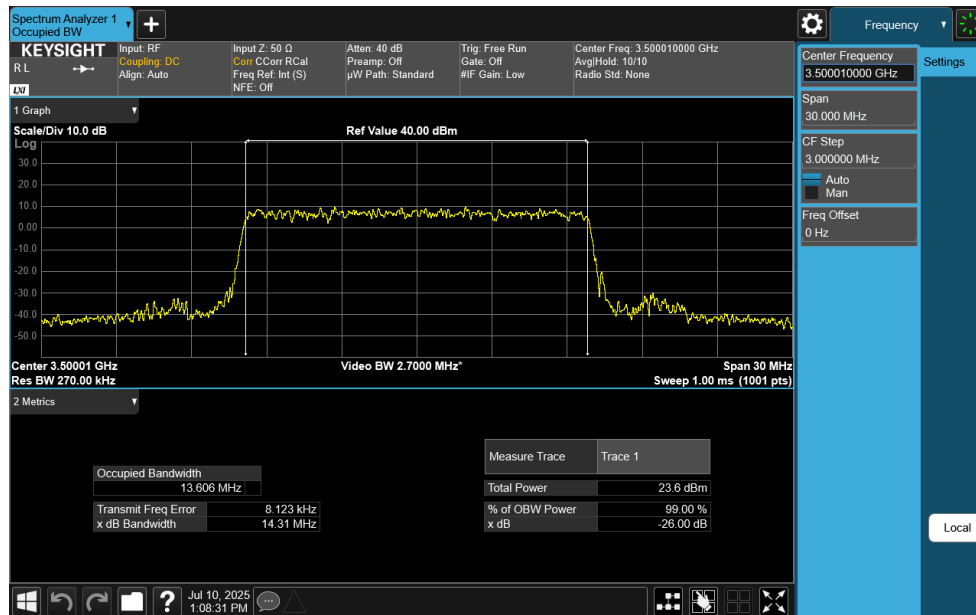


Plot 7-8. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 16-QAM - Full RB)

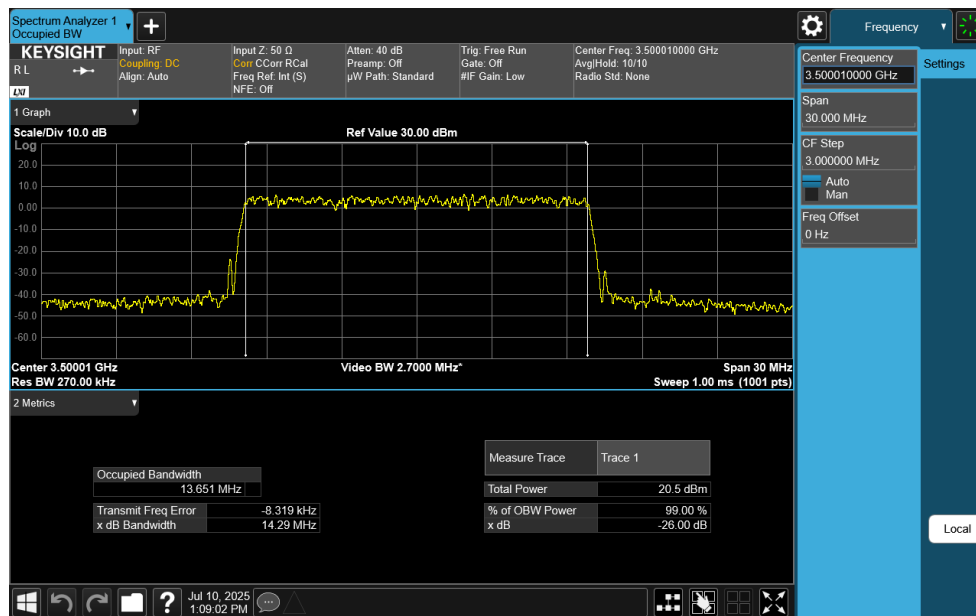
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-9. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 64-QAM - Full RB)

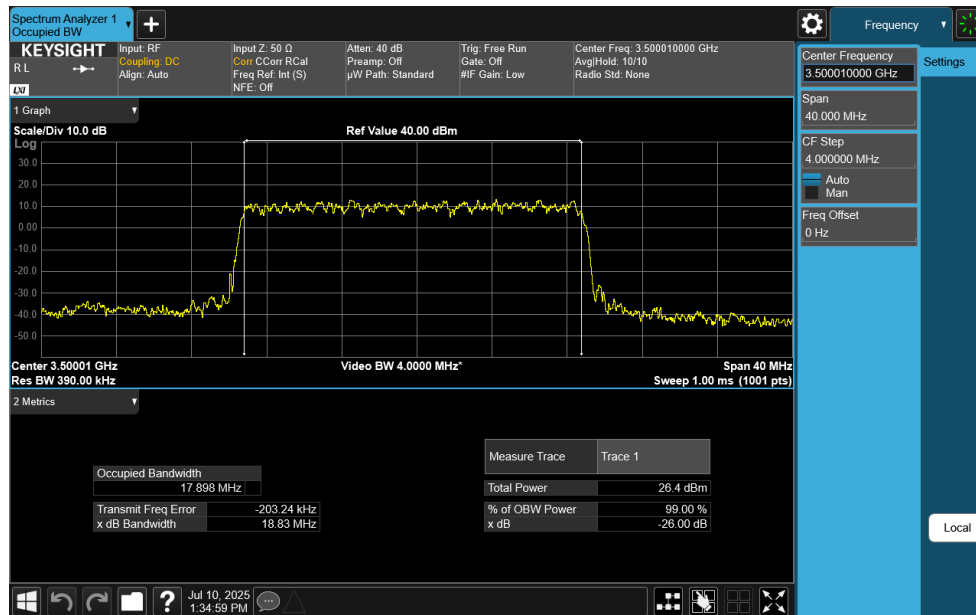


Plot 7-10. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 256-QAM - Full RB)

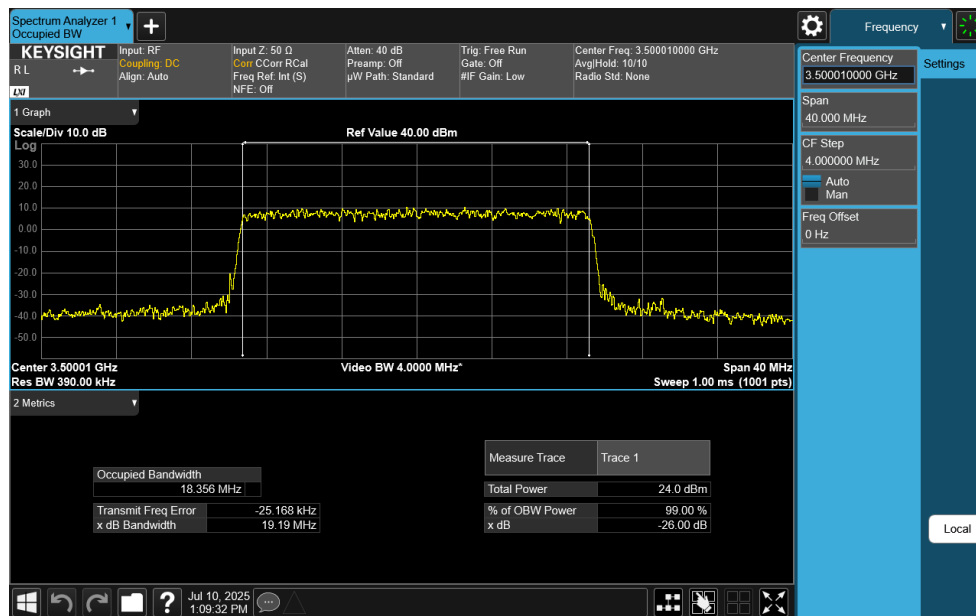
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-11. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

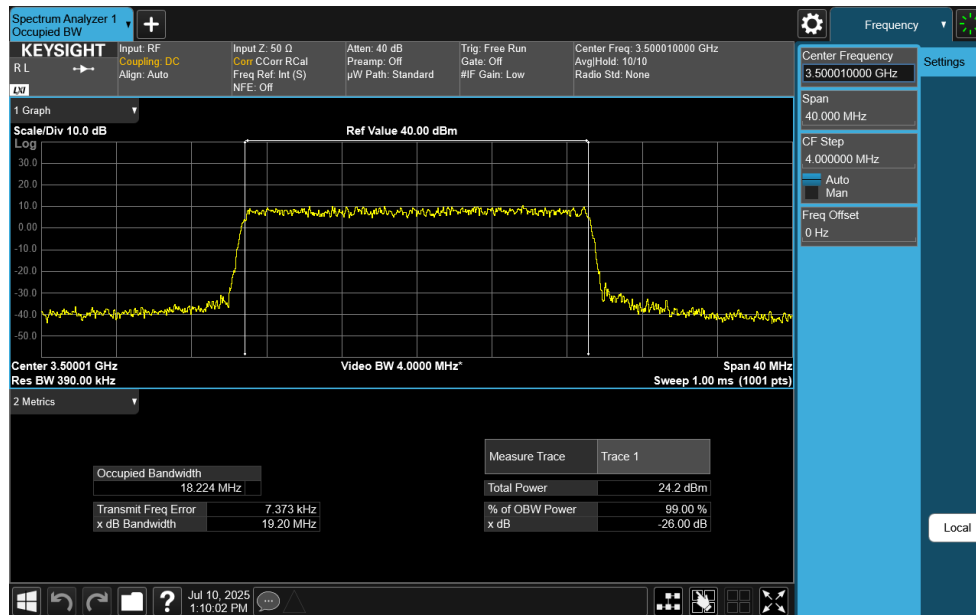


Plot 7-12. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM QPSK - Full RB)

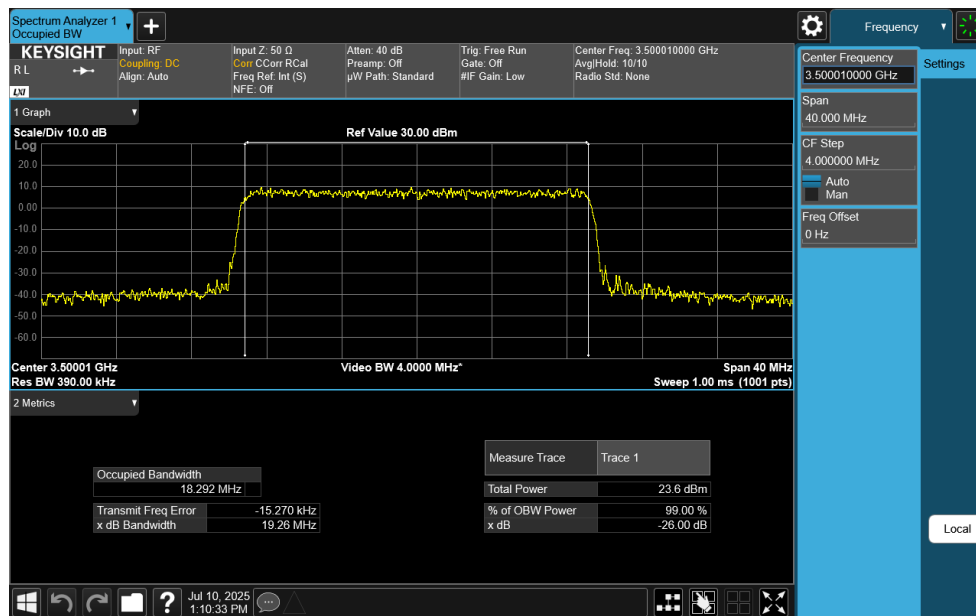
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 16-QAM - Full RB)

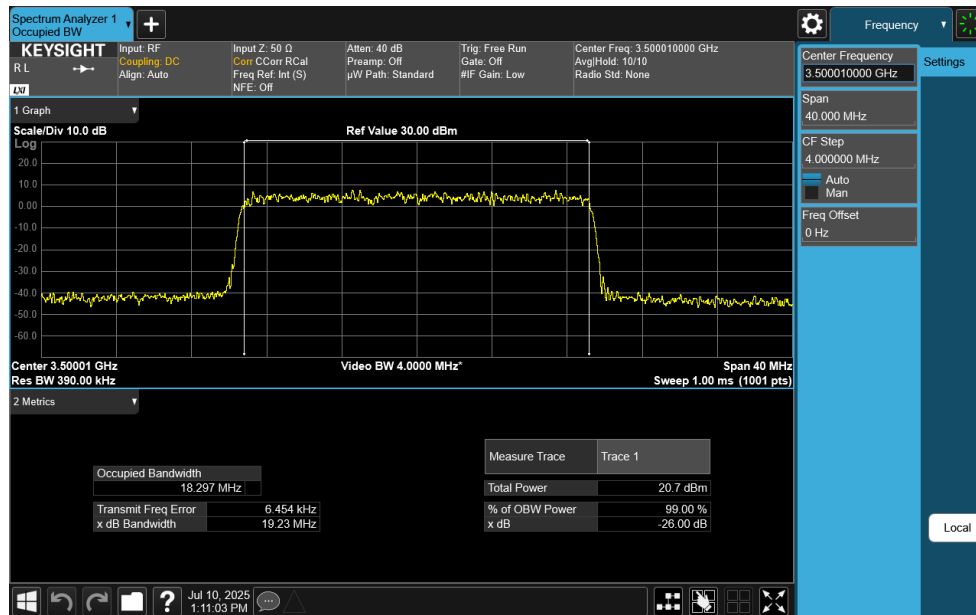


Plot 7-14. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 64-QAM - Full RB)

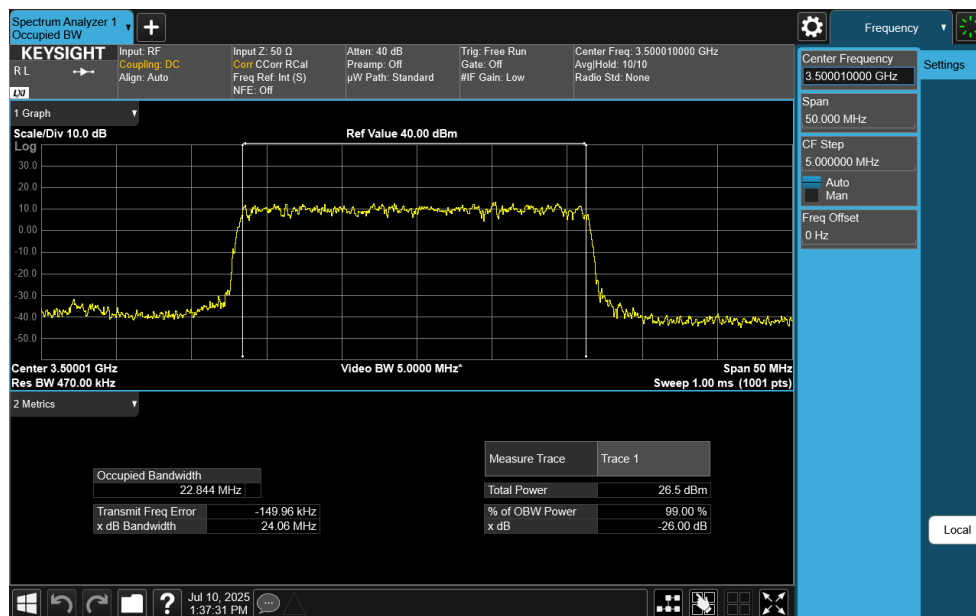
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Plot 7-15. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 256-QAM - Full RB)

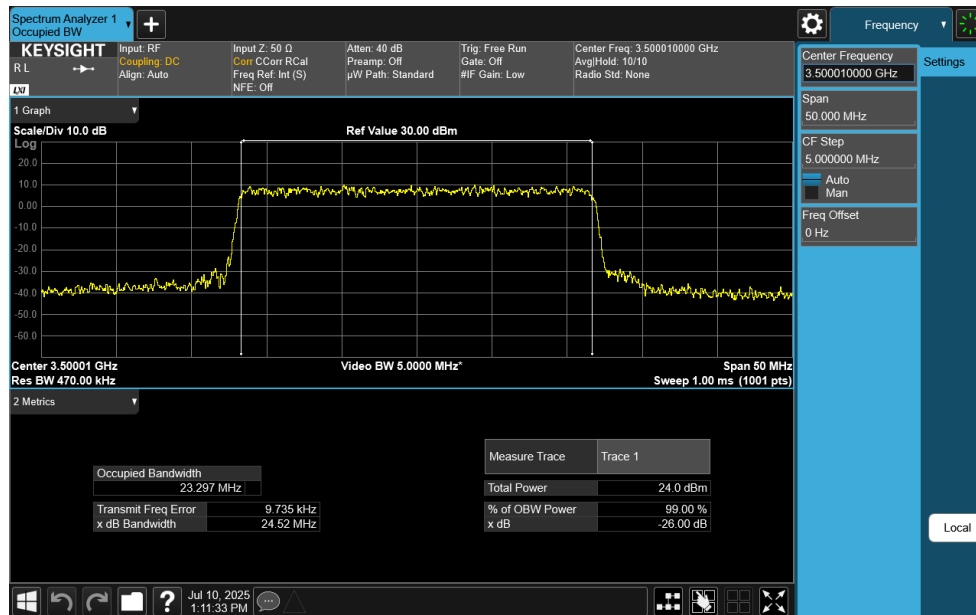


Plot 7-16. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

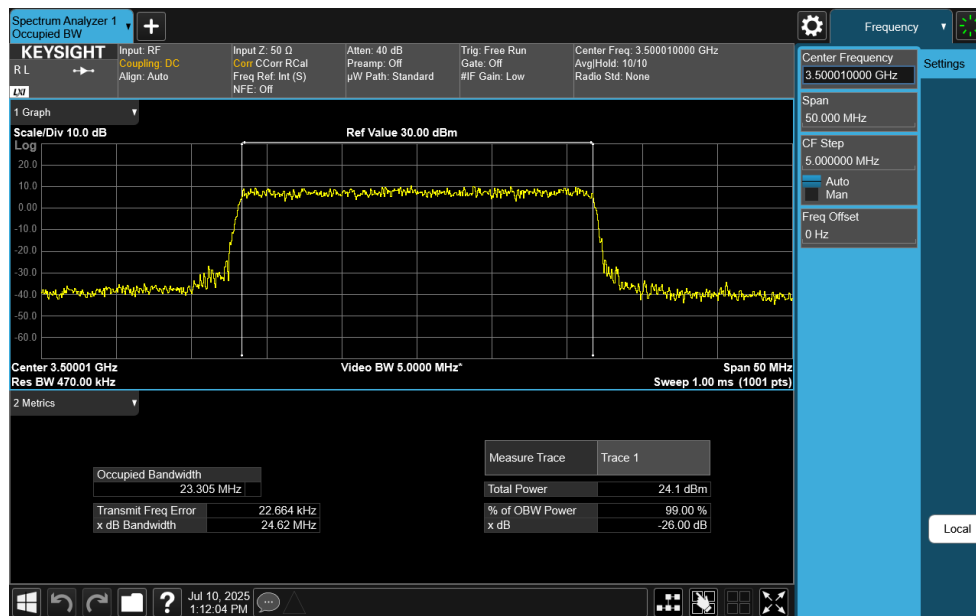
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Plot 7-17. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM QPSK - Full RB)

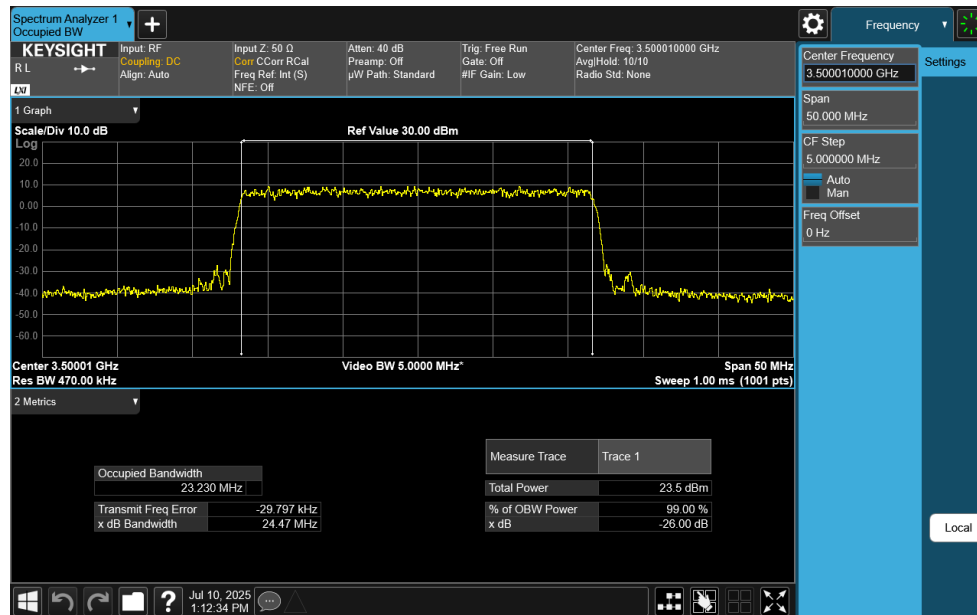


Plot 7-18. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 16-QAM - Full RB)

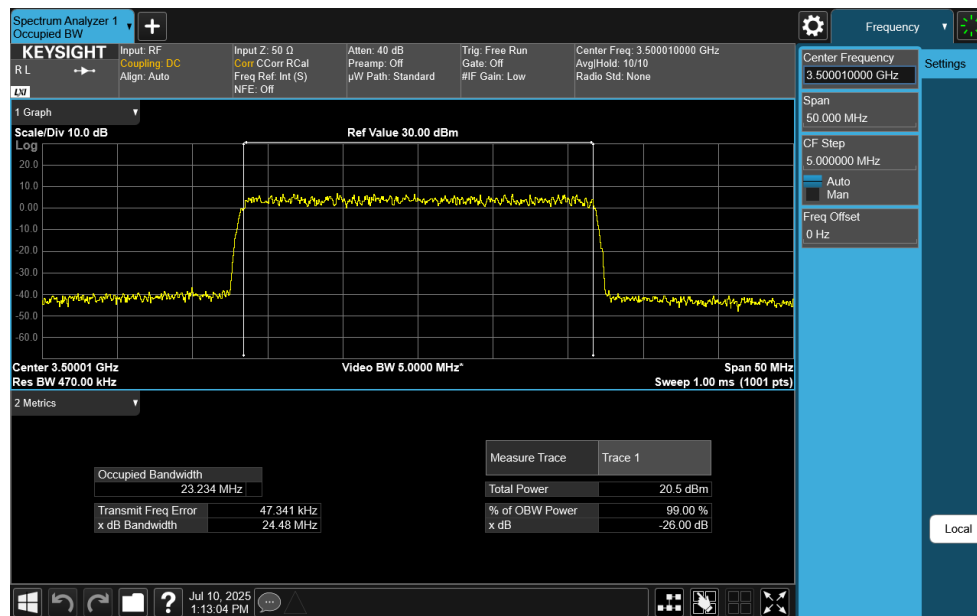
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 64-QAM - Full RB)

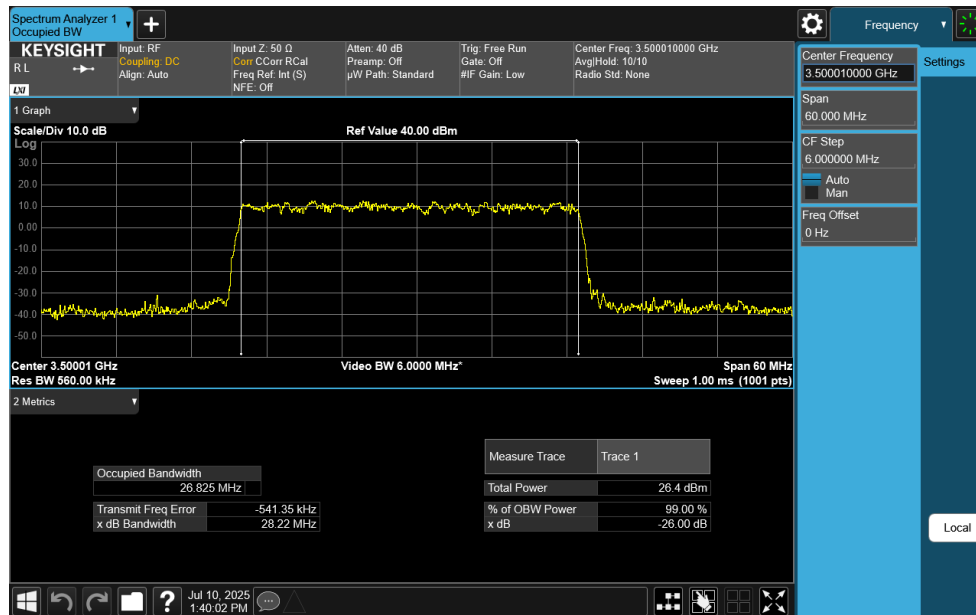


Plot 7-20. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 256-QAM - Full RB)

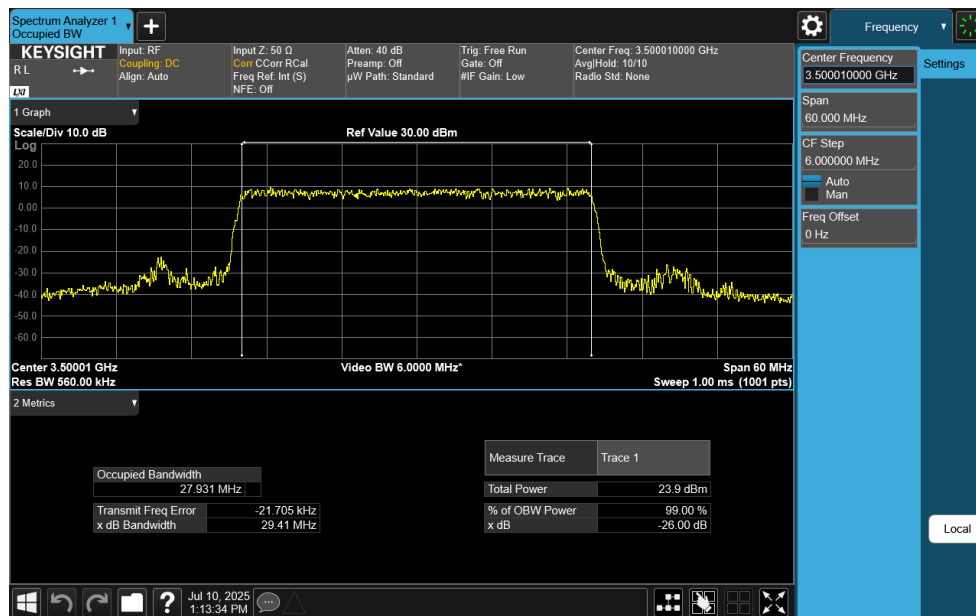
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Plot 7-21. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

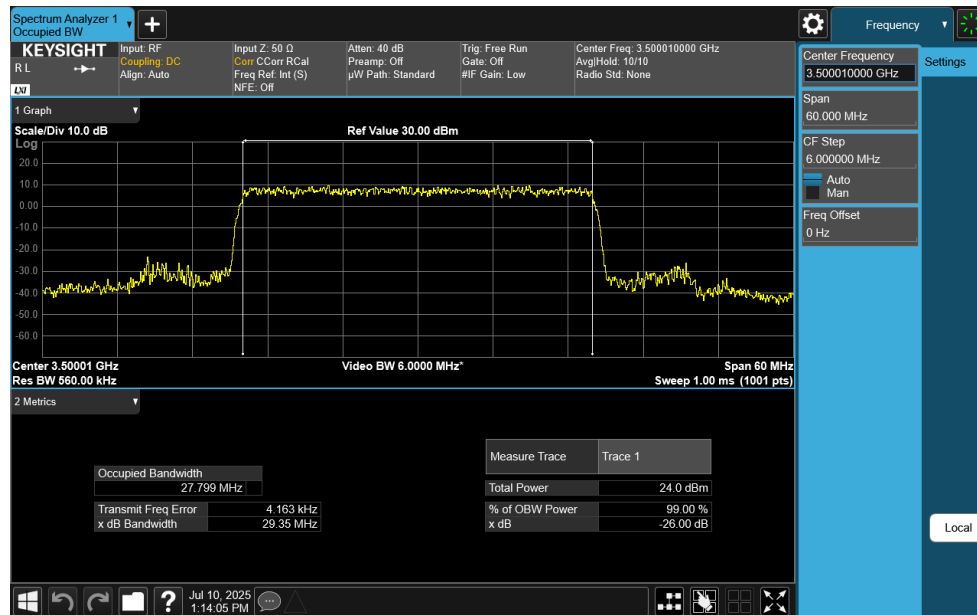


Plot 7-22. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM QPSK - Full RB)

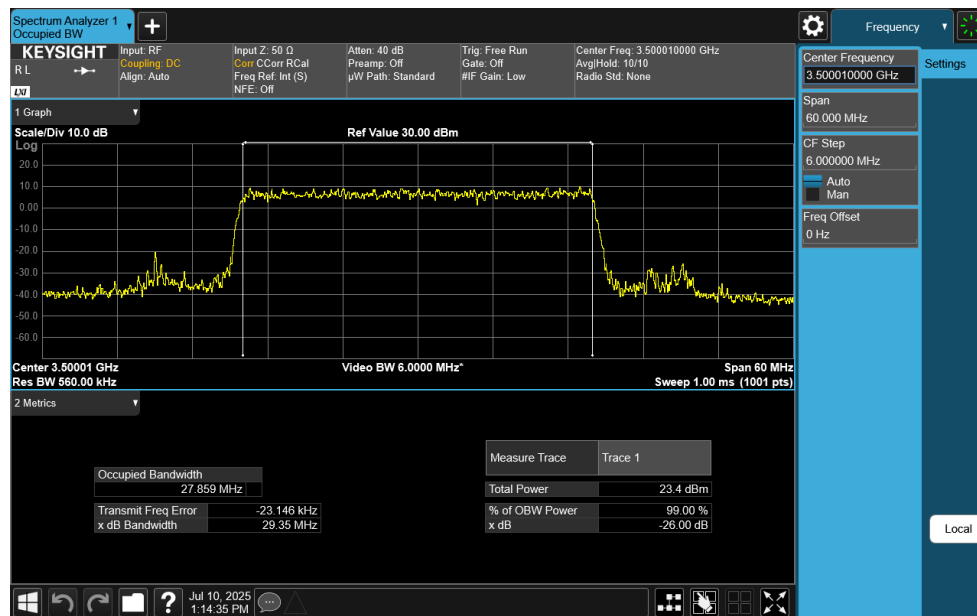
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-23. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 16-QAM - Full RB)

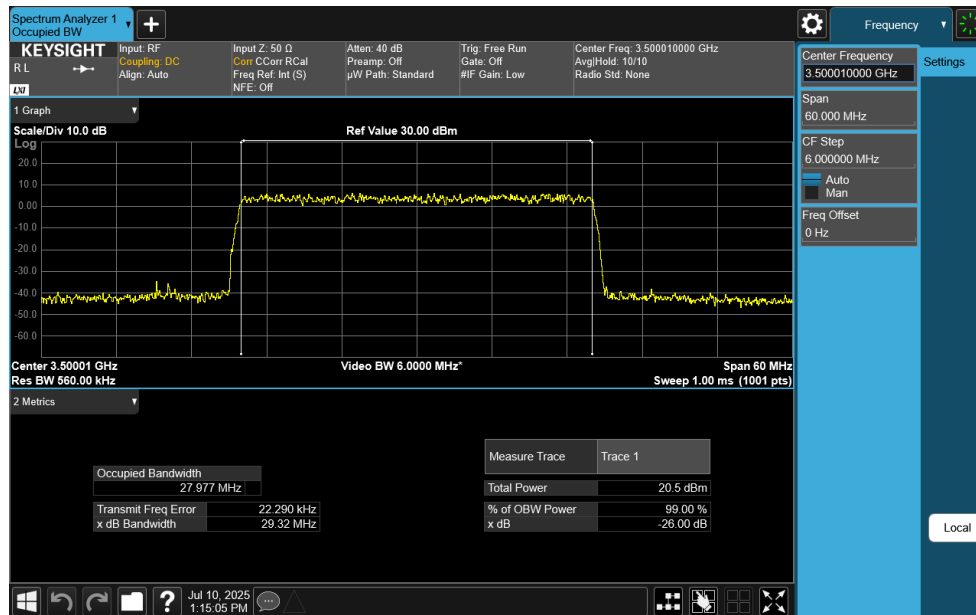


Plot 7-24. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 64-QAM - Full RB)

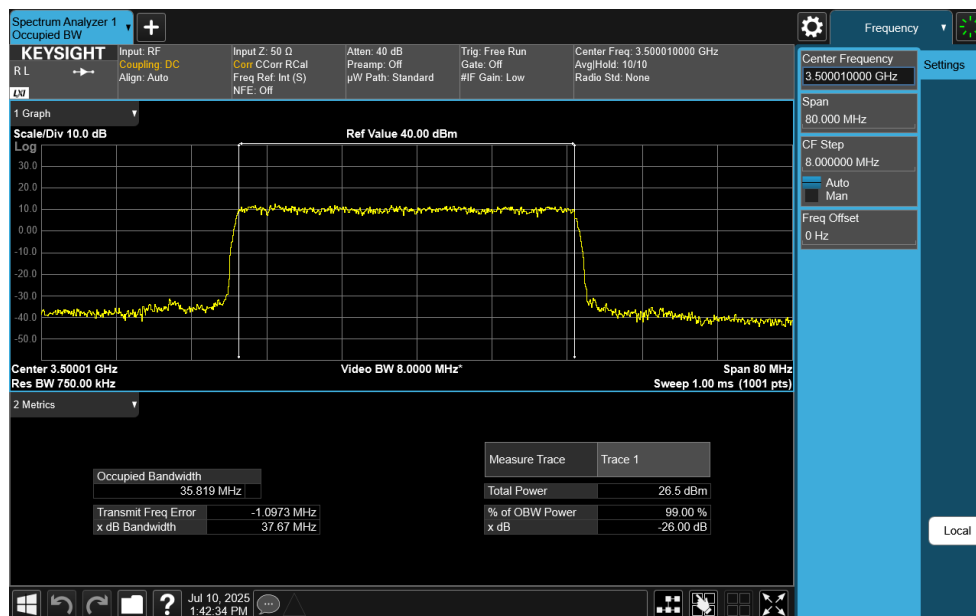
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-25. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 256-QAM - Full RB)

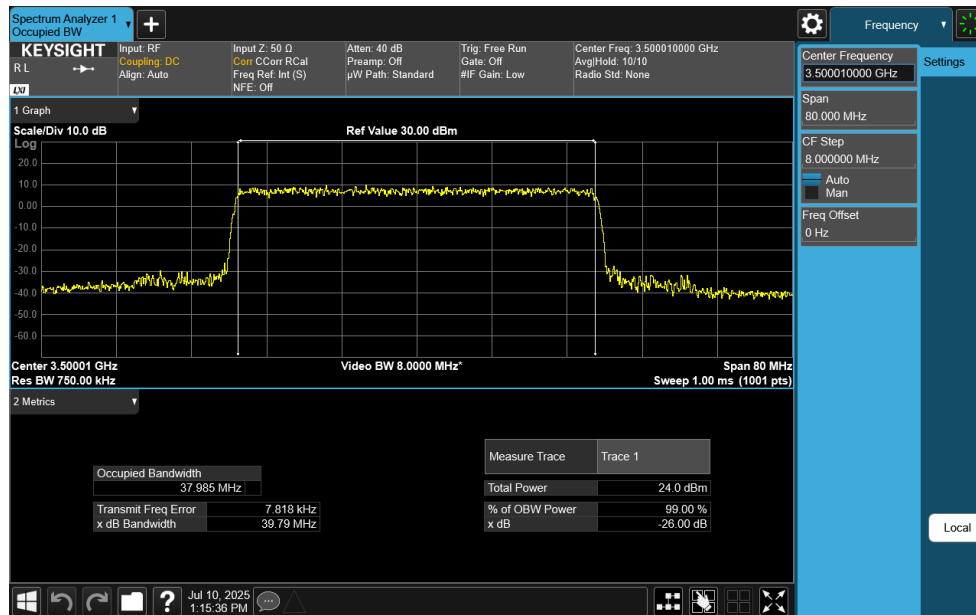


Plot 7-26. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

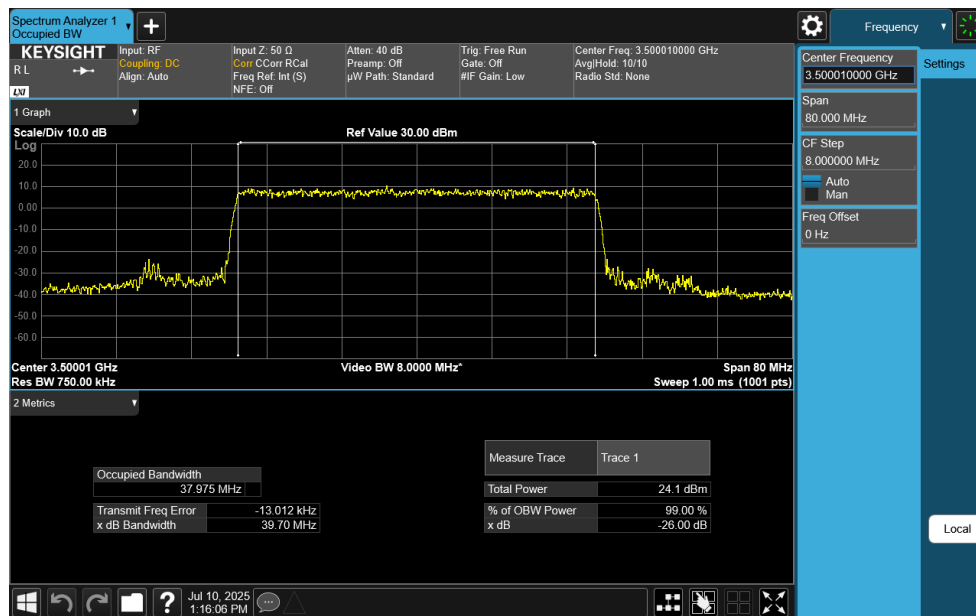
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Plot 7-27. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM QPSK - Full RB)

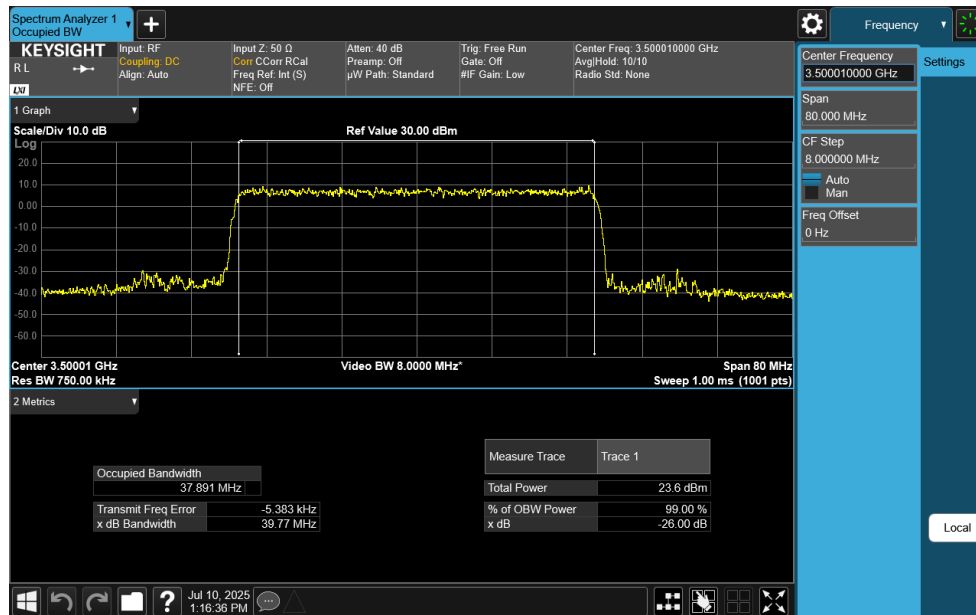


Plot 7-28. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 16-QAM - Full RB)

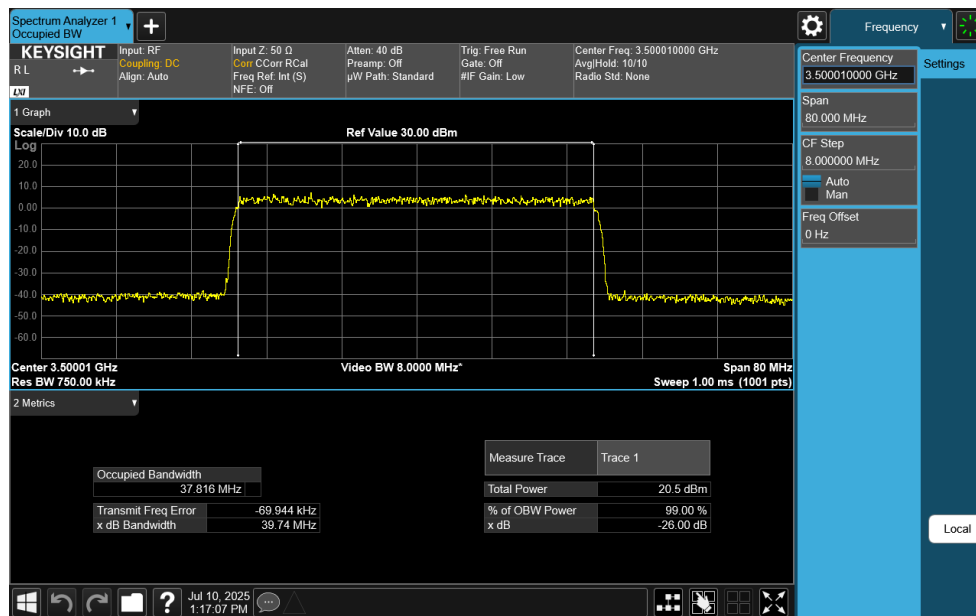
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-29. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 64-QAM - Full RB)

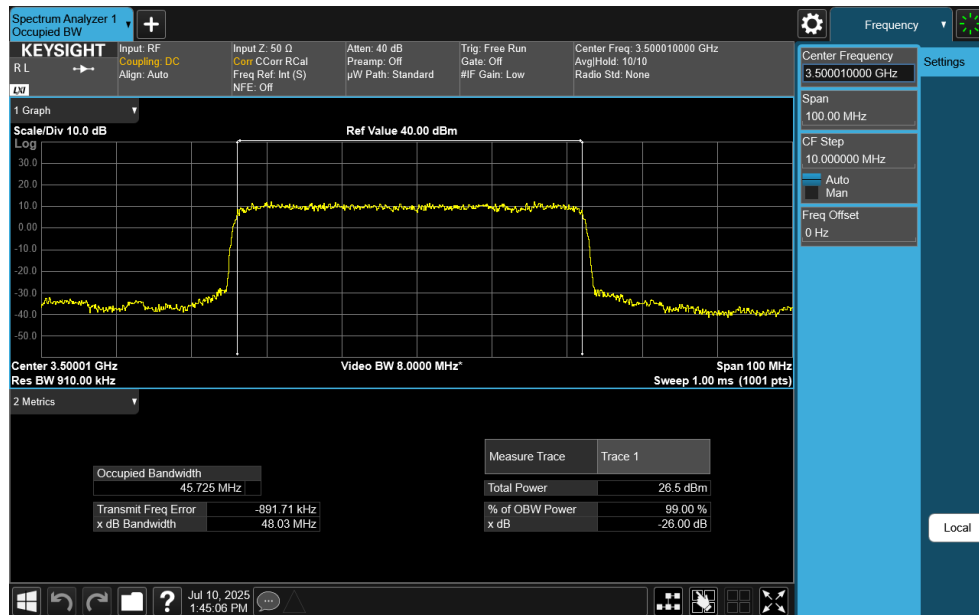


Plot 7-30. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 256-QAM - Full RB)

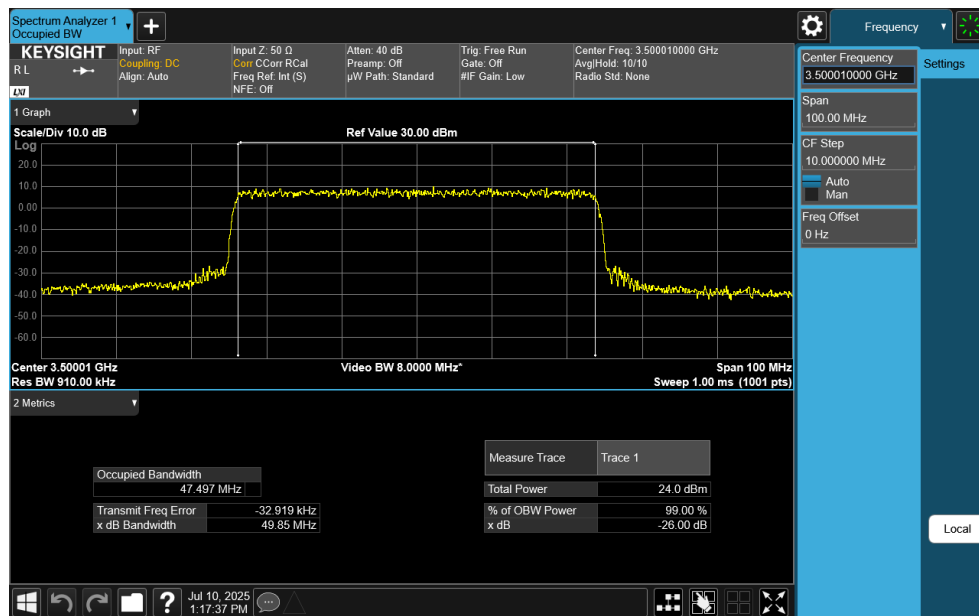
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-31. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

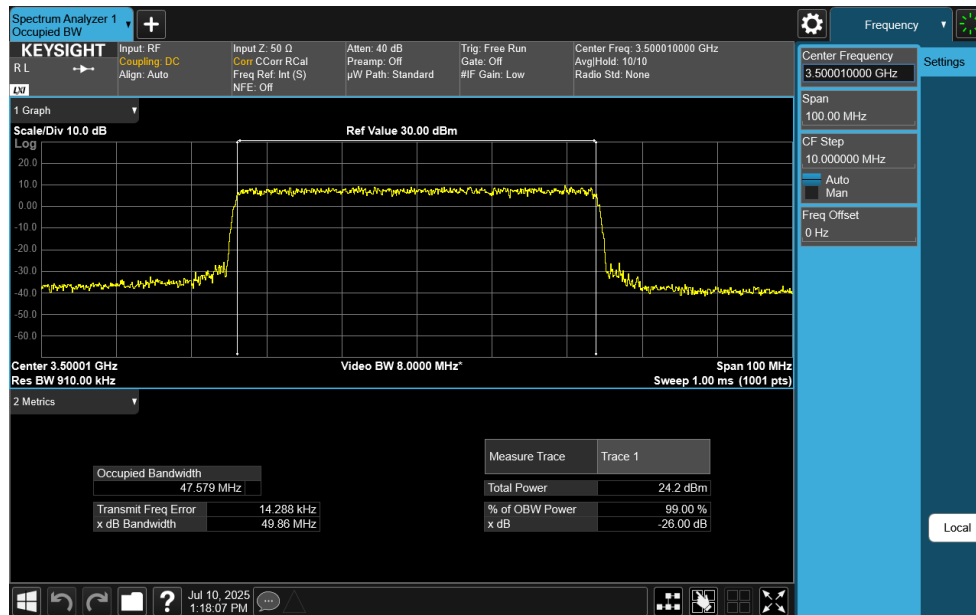


Plot 7-32. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM QPSK - Full RB)

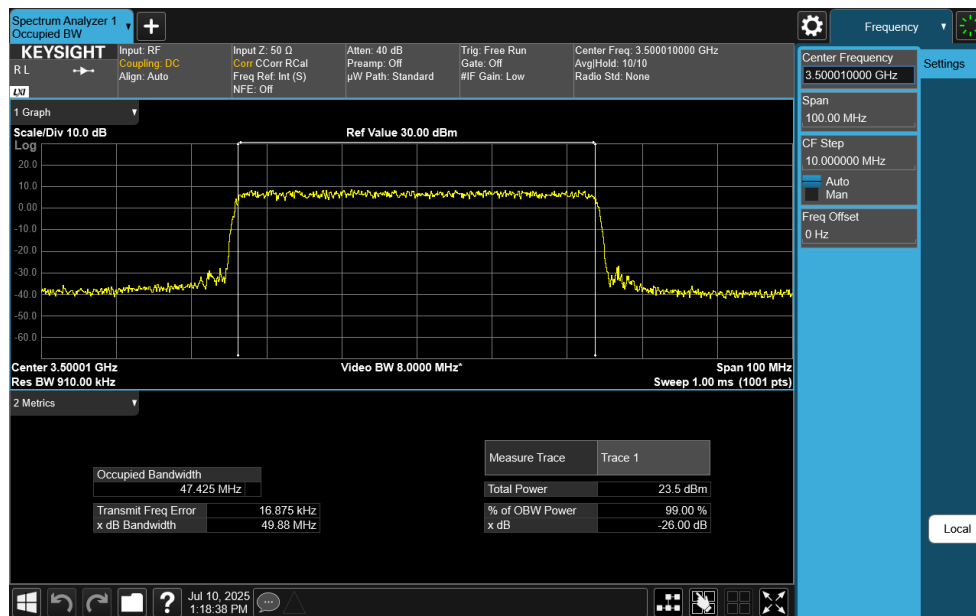
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-33. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 16-QAM - Full RB)

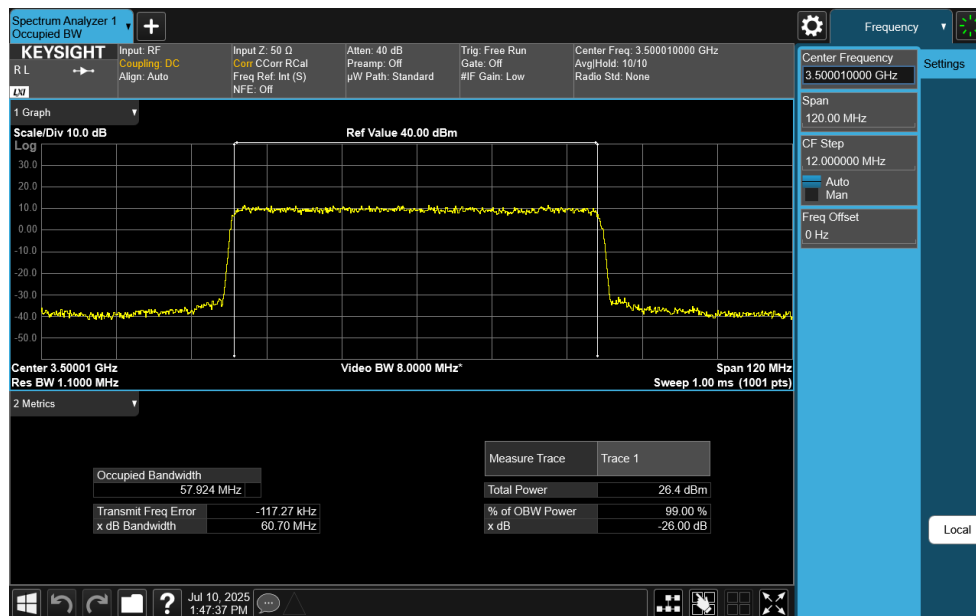
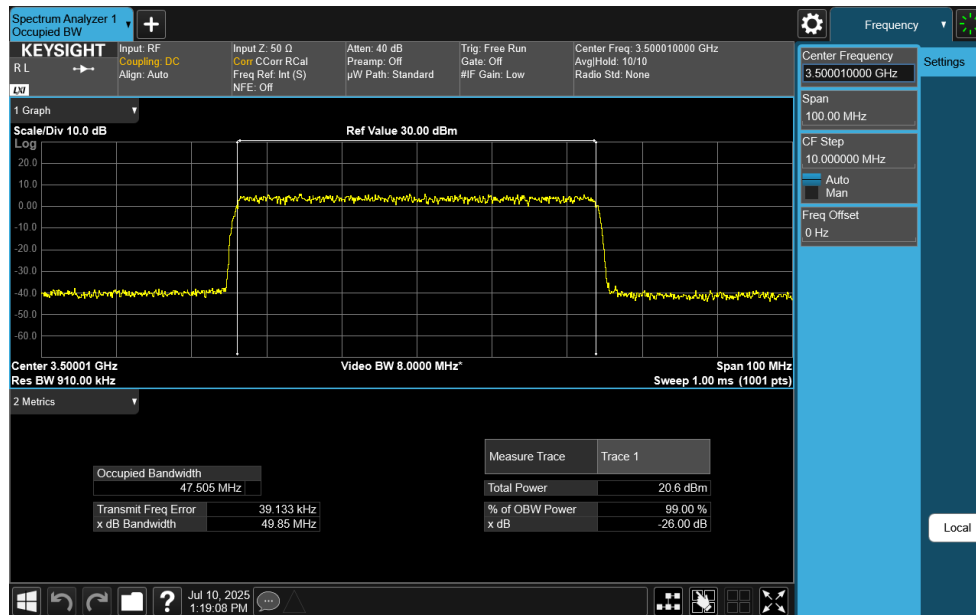


Plot 7-34. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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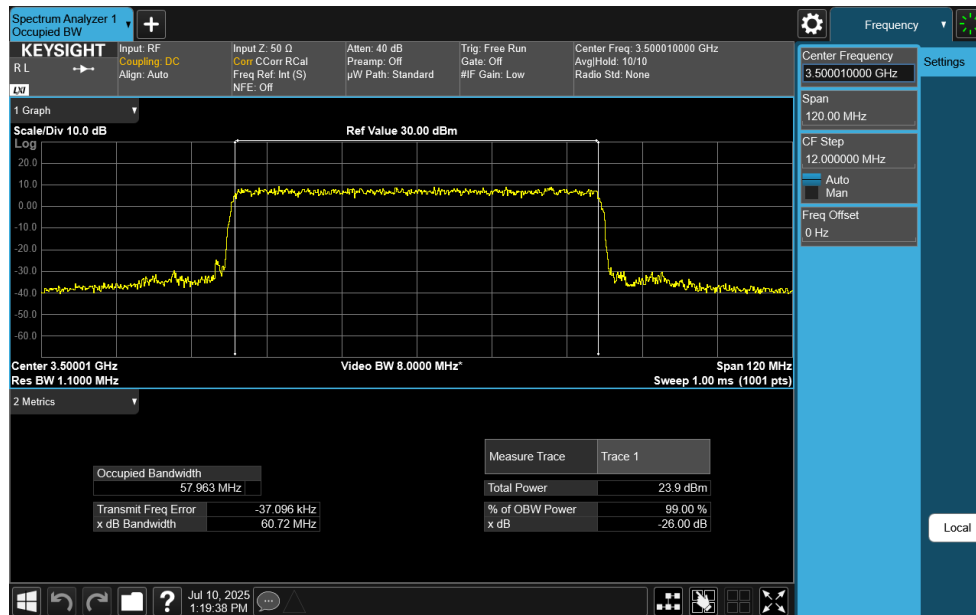
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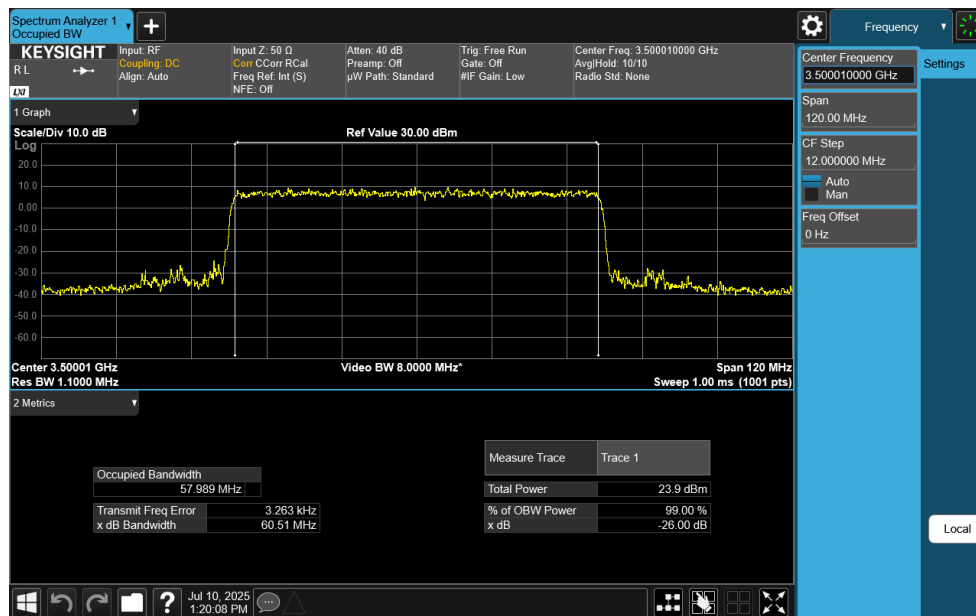
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device	Page 34 of 257

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Plot 7-37. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM QPSK - Full RB)

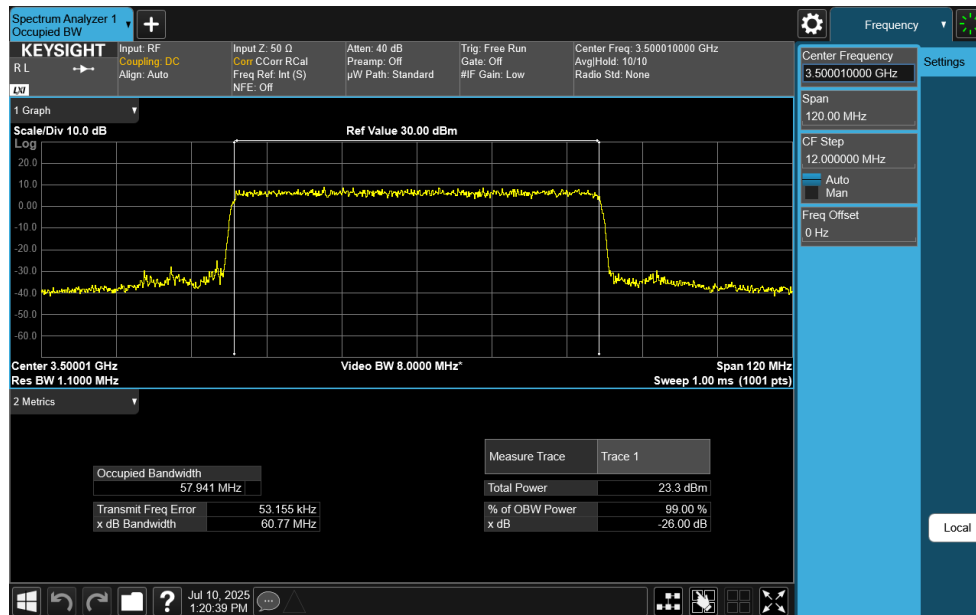


Plot 7-38. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 16-QAM - Full RB)

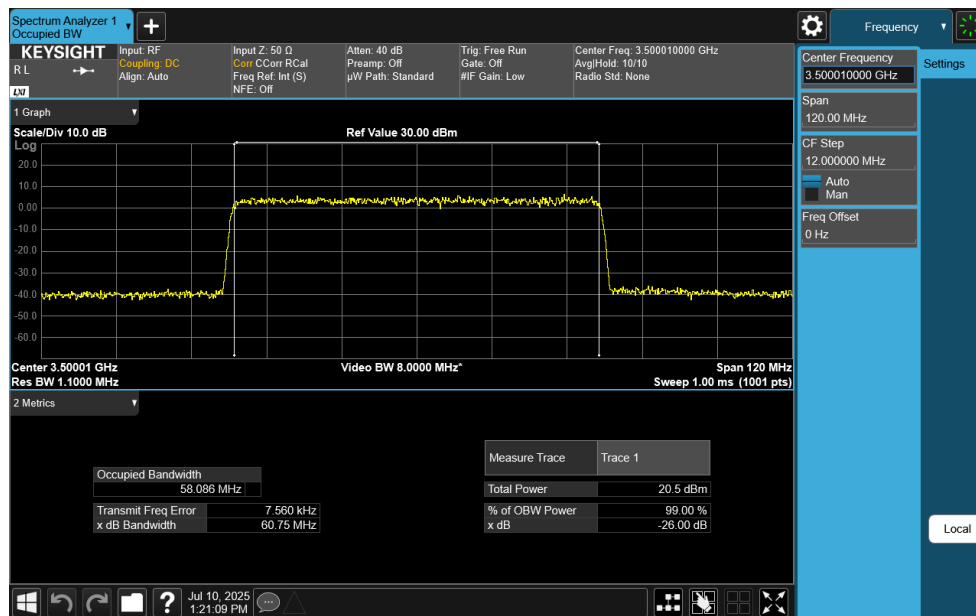
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device	Page 35 of 257

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Plot 7-39. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 64-QAM - Full RB)

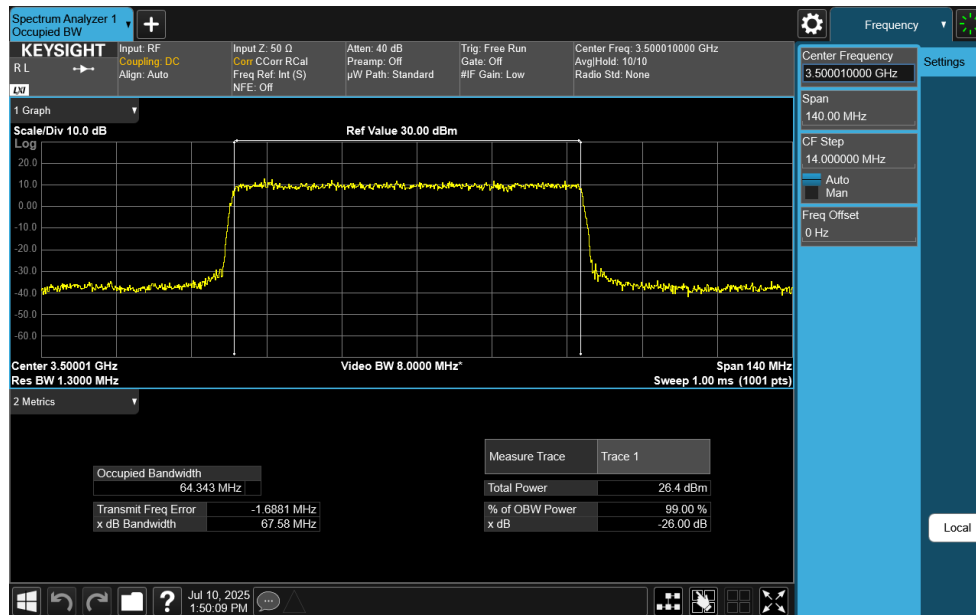


Plot 7-40. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 256-QAM - Full RB)

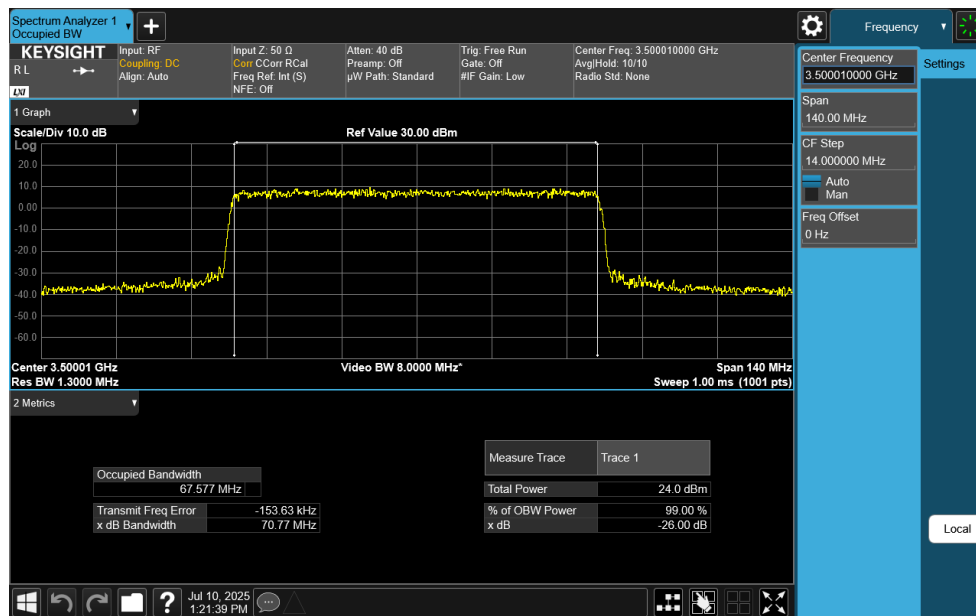
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-41. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

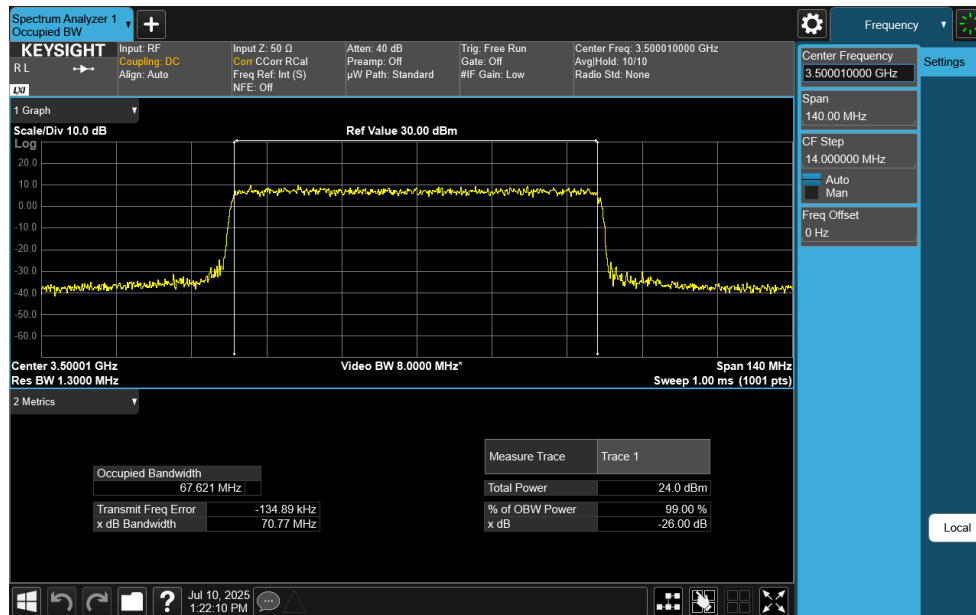


Plot 7-42. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM QPSK - Full RB)

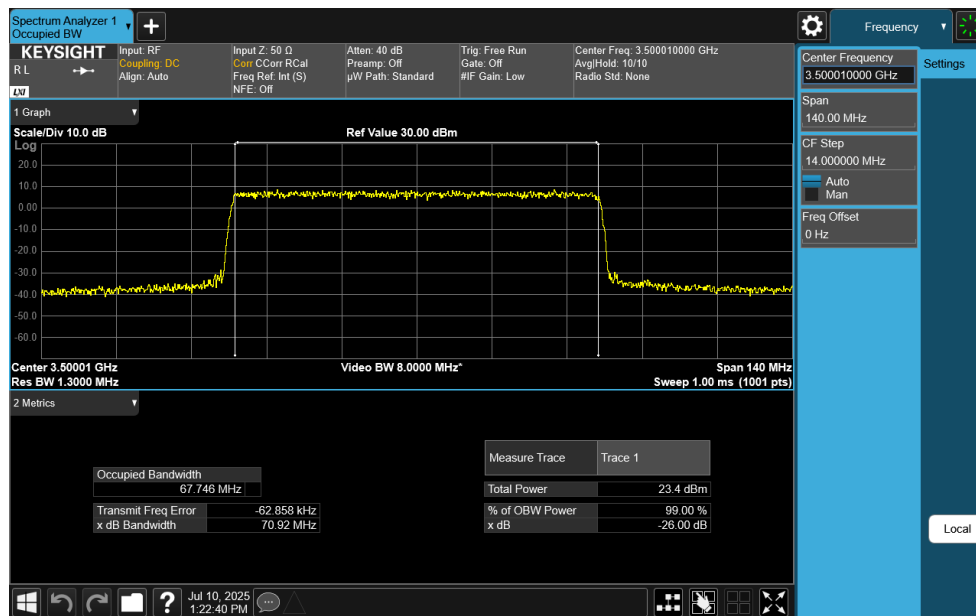
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-43. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 16-QAM - Full RB)

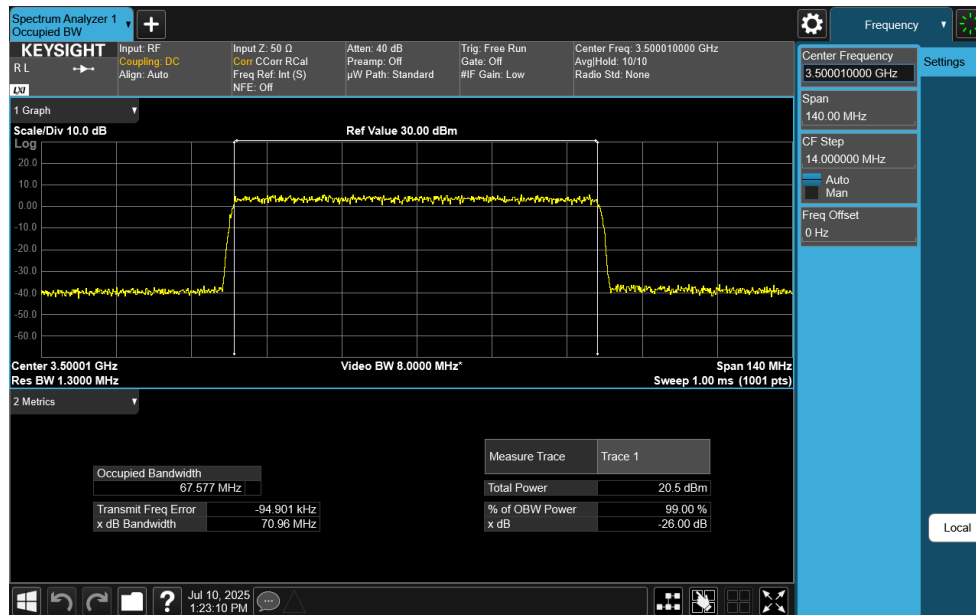


Plot 7-44. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 64-QAM - Full RB)

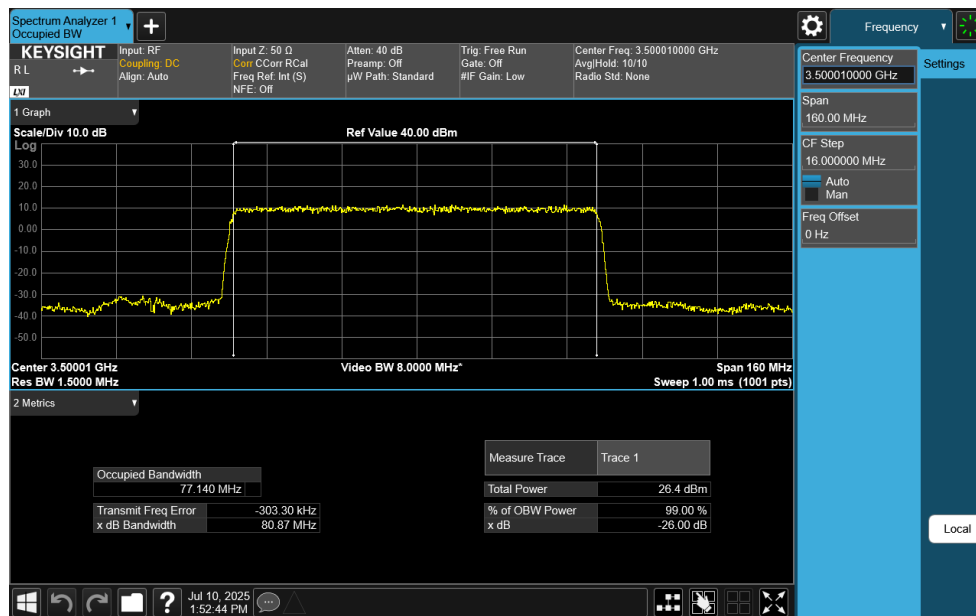
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-45. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 256-QAM - Full RB)

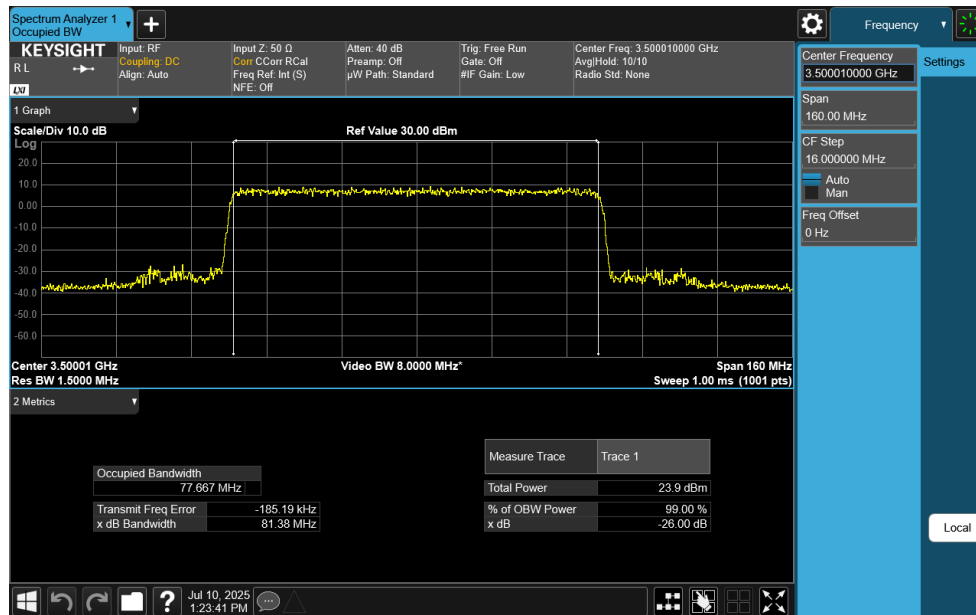


Plot 7-46. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

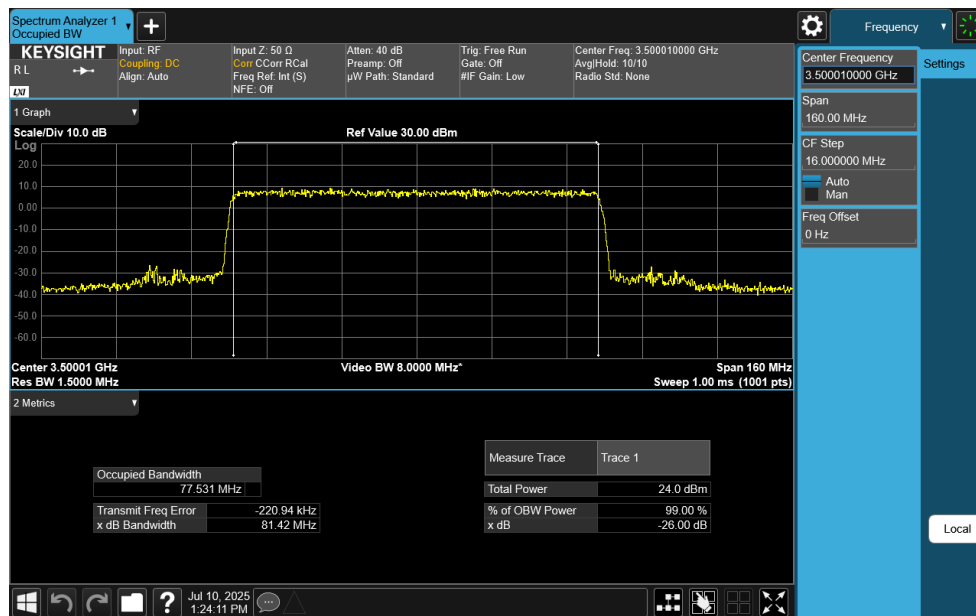
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-47. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM QPSK - Full RB)

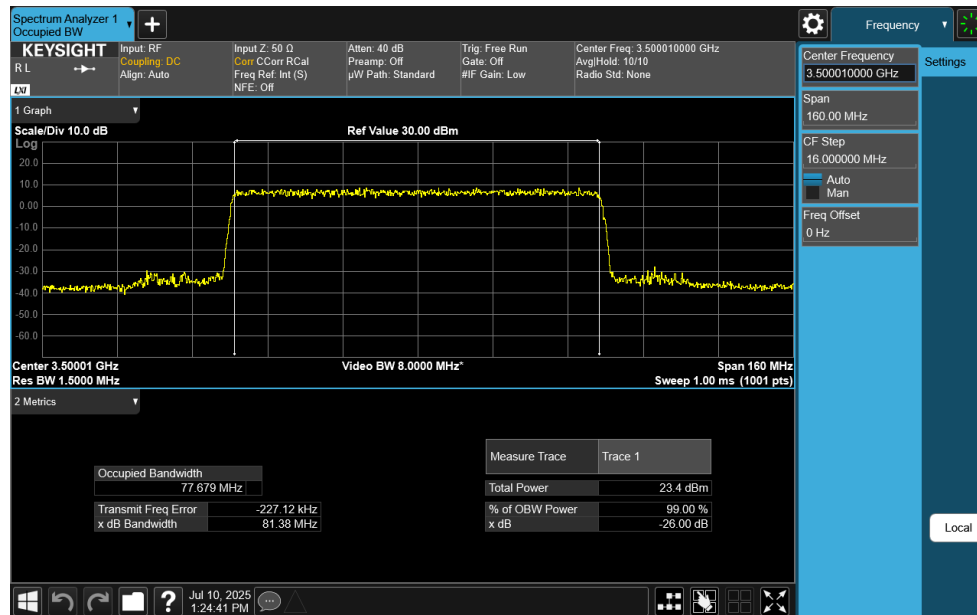


Plot 7-48. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 16-QAM - Full RB)

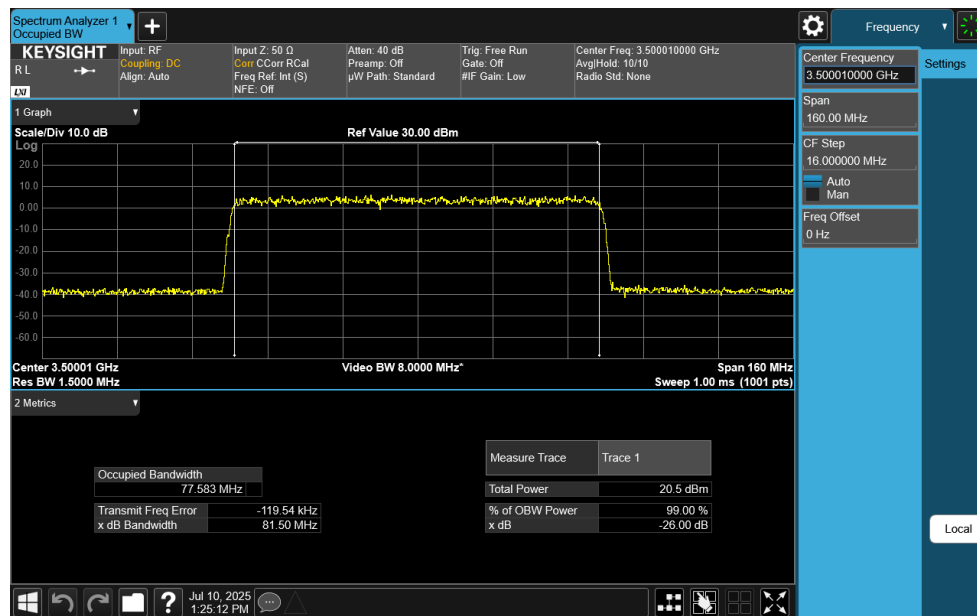
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-49. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 64-QAM - Full RB)

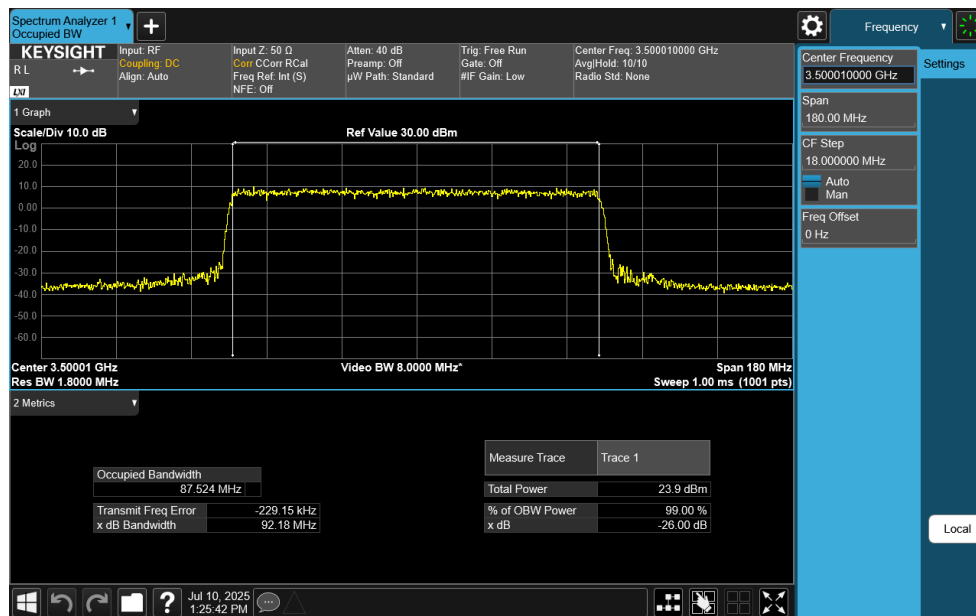
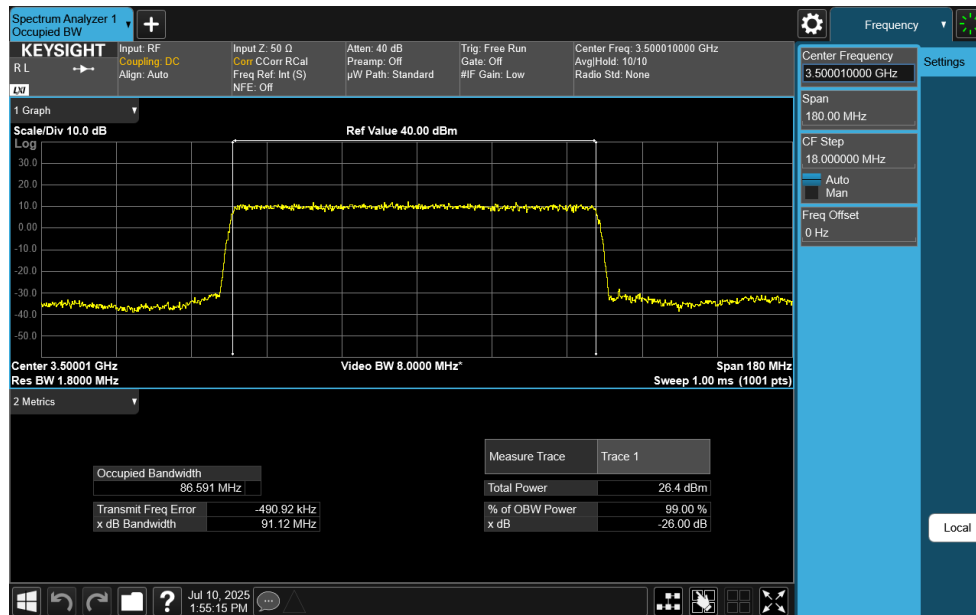


Plot 7-50. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device	Page 41 of 257

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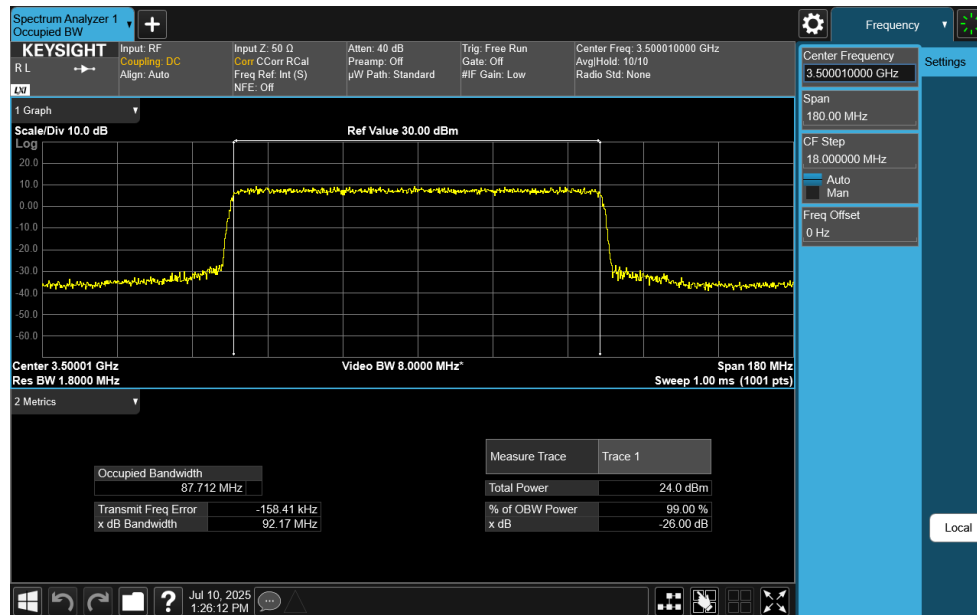
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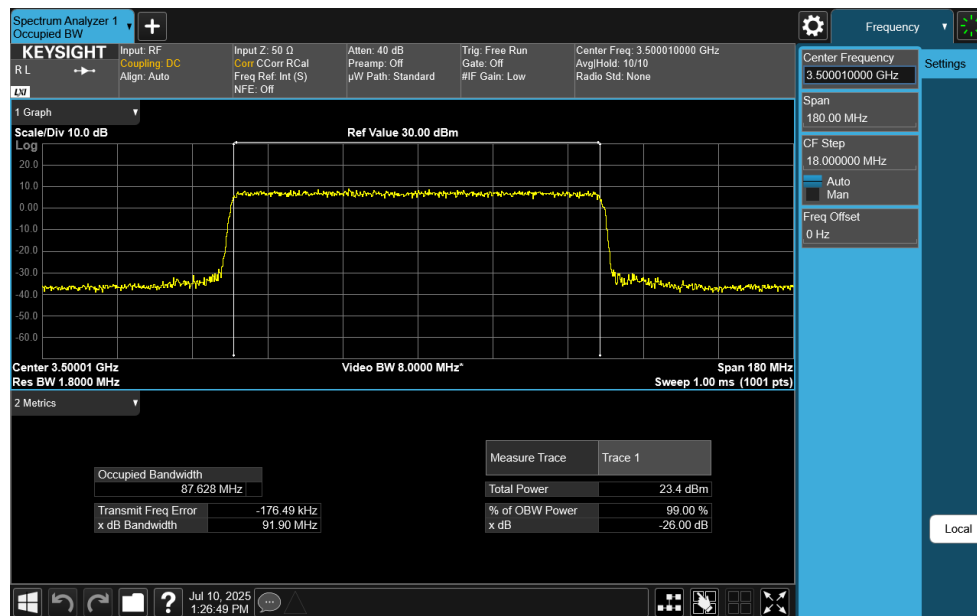
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-53. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 16-QAM - Full RB)

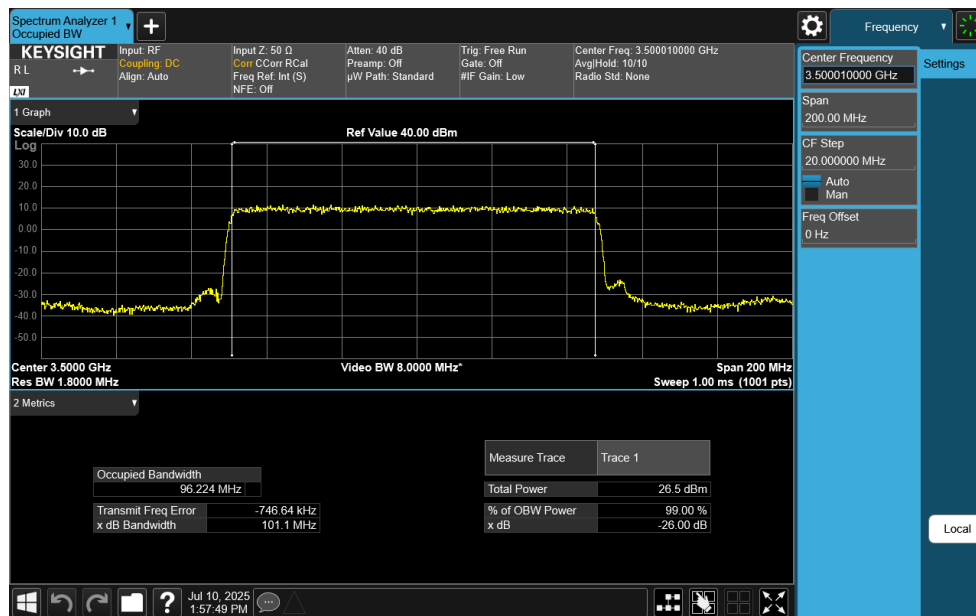
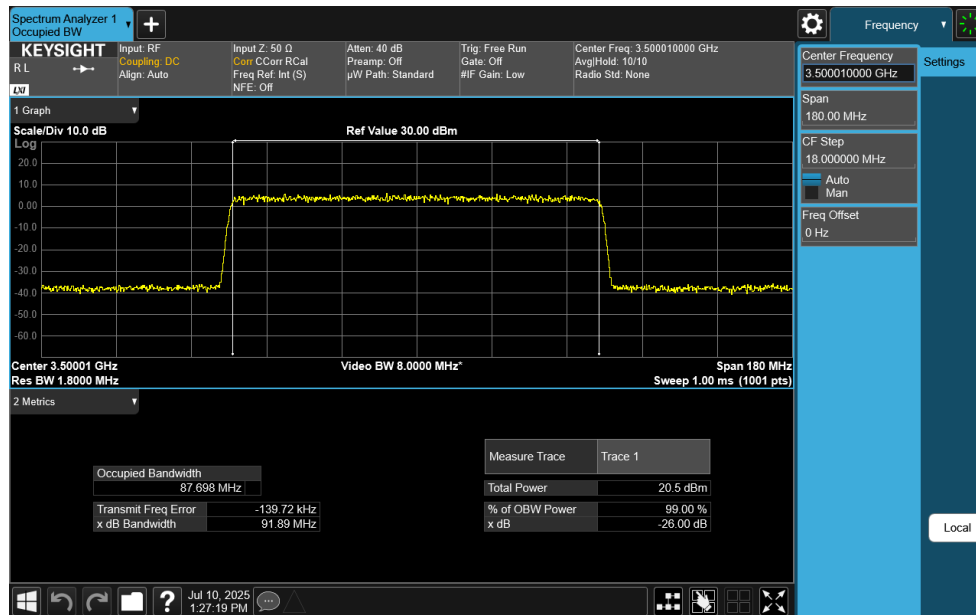


Plot 7-54. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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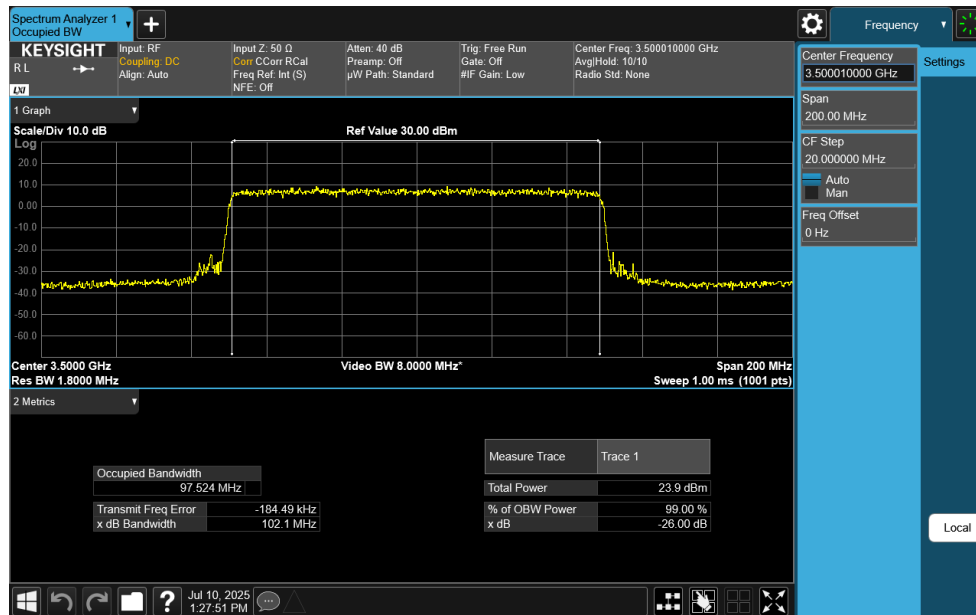
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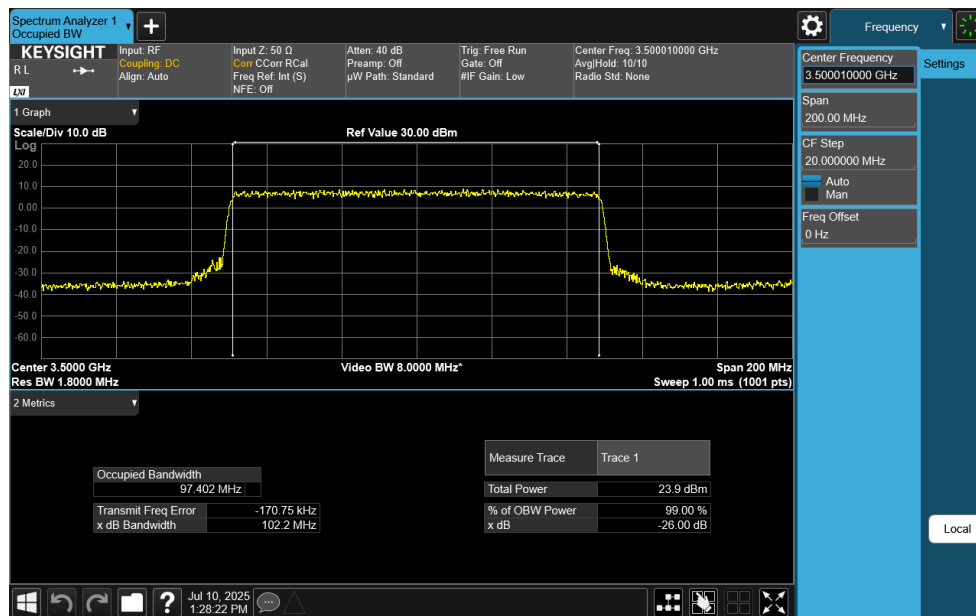
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-57. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM QPSK - Full RB)

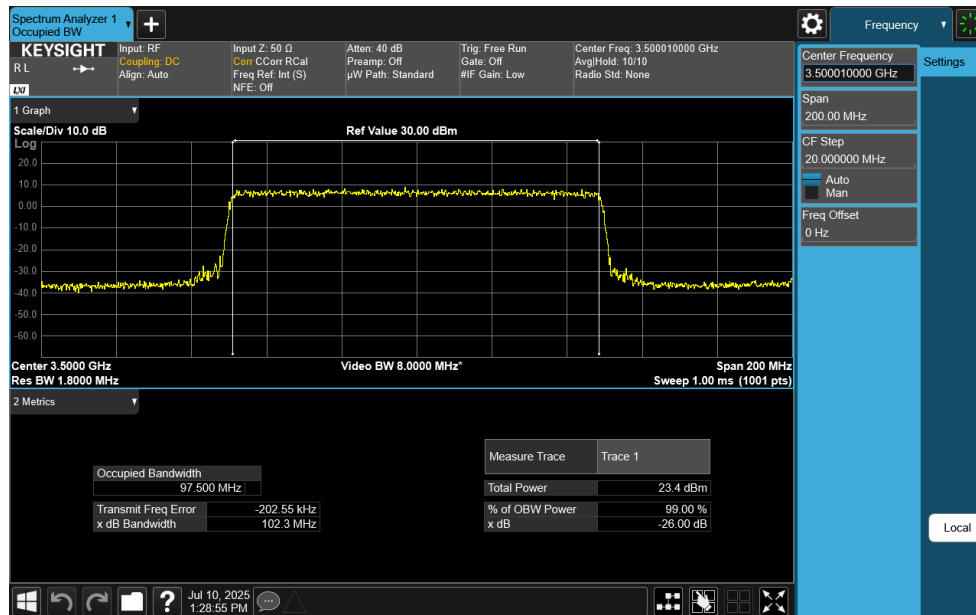


Plot 7-58. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 16-QAM - Full RB)

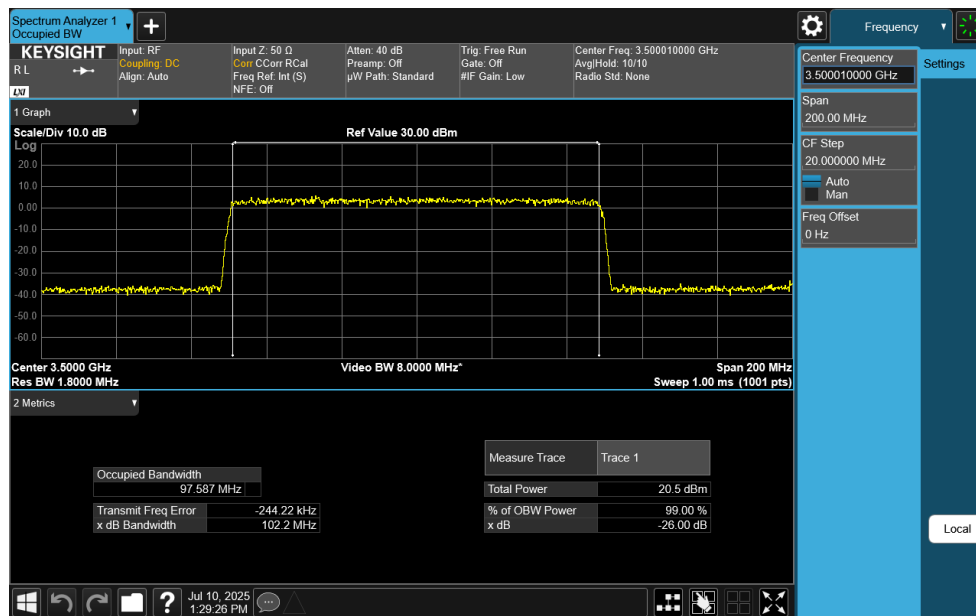
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-59. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 64-QAM - Full RB)



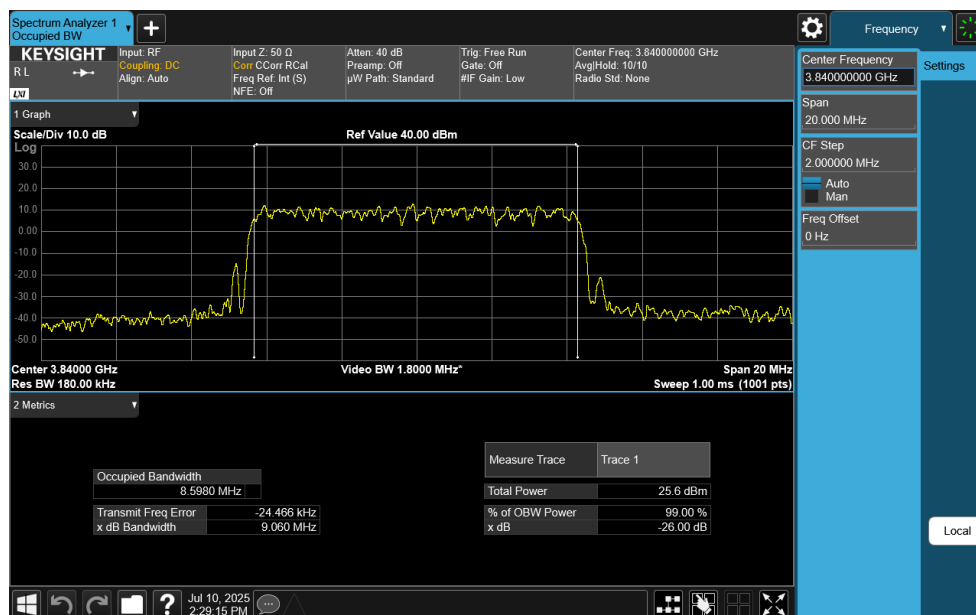
Plot 7-60. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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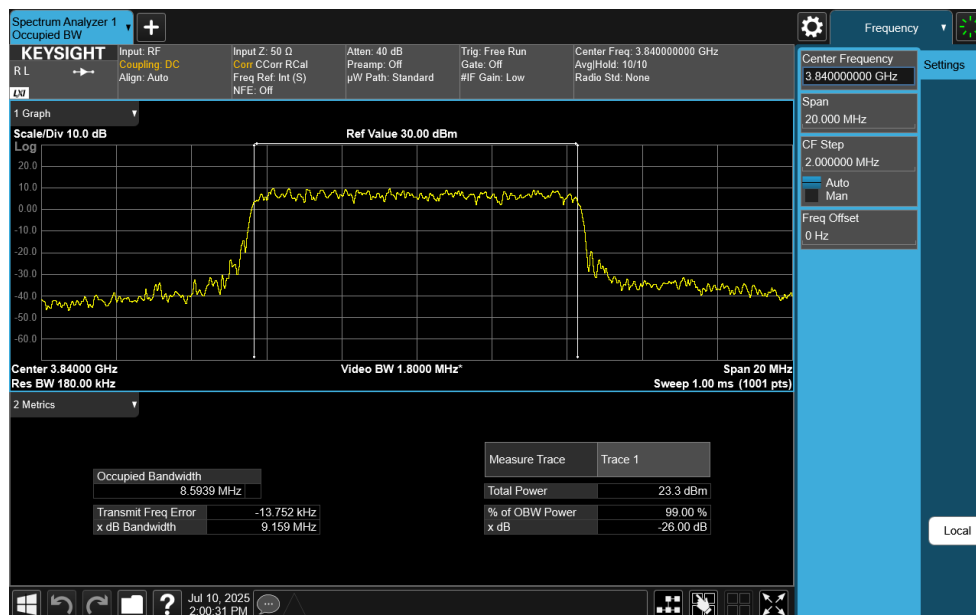
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NR Band n77 C-Band



Plot 7-61. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

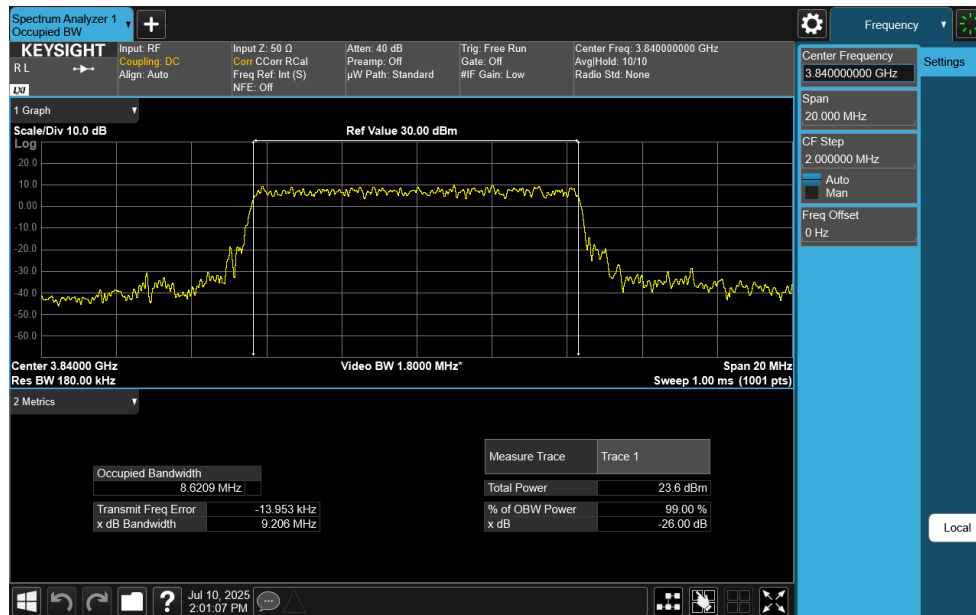


Plot 7-62. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM QPSK - Full RB)

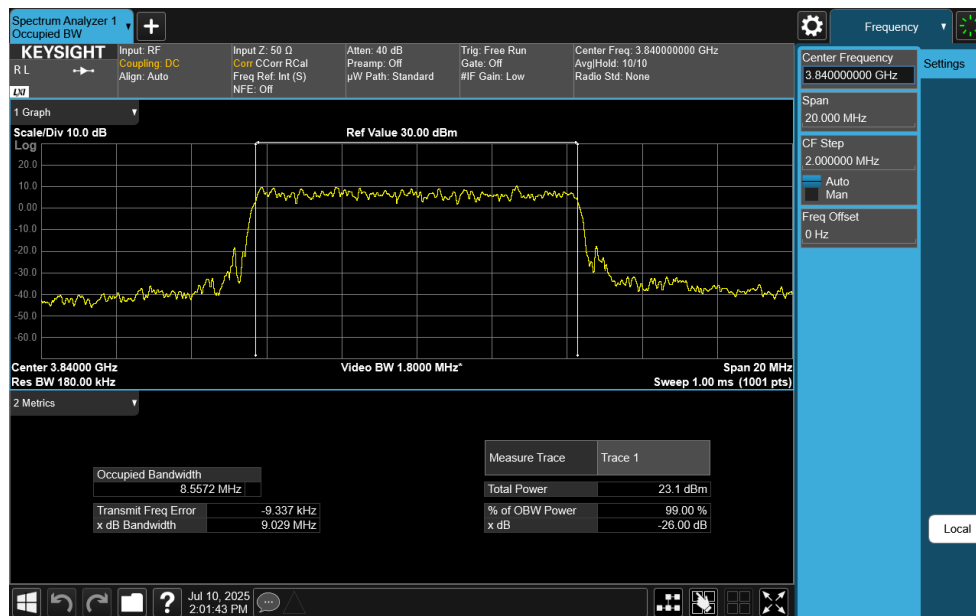
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-63. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 16-QAM - Full RB)

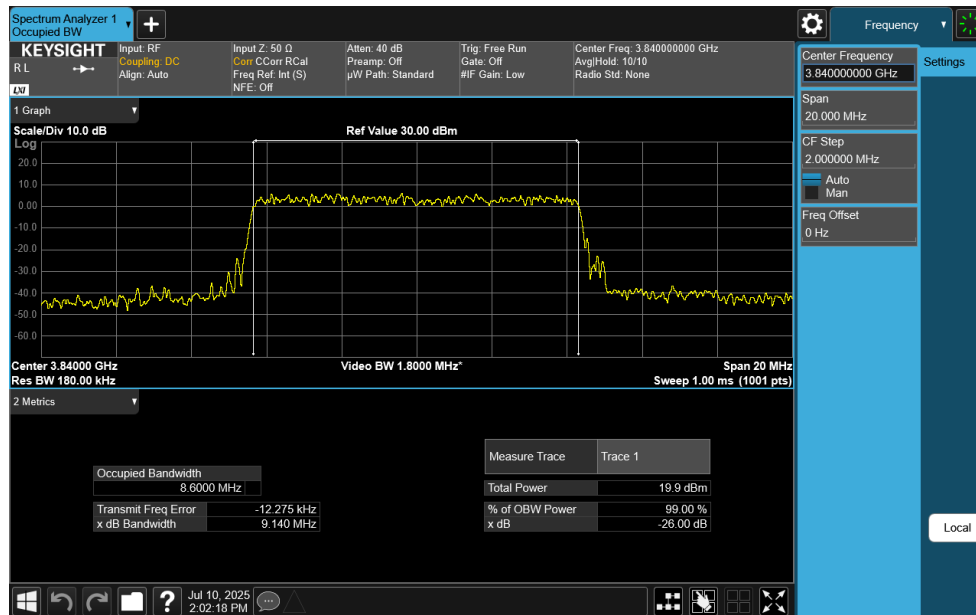


Plot 7-64. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 64-QAM - Full RB)

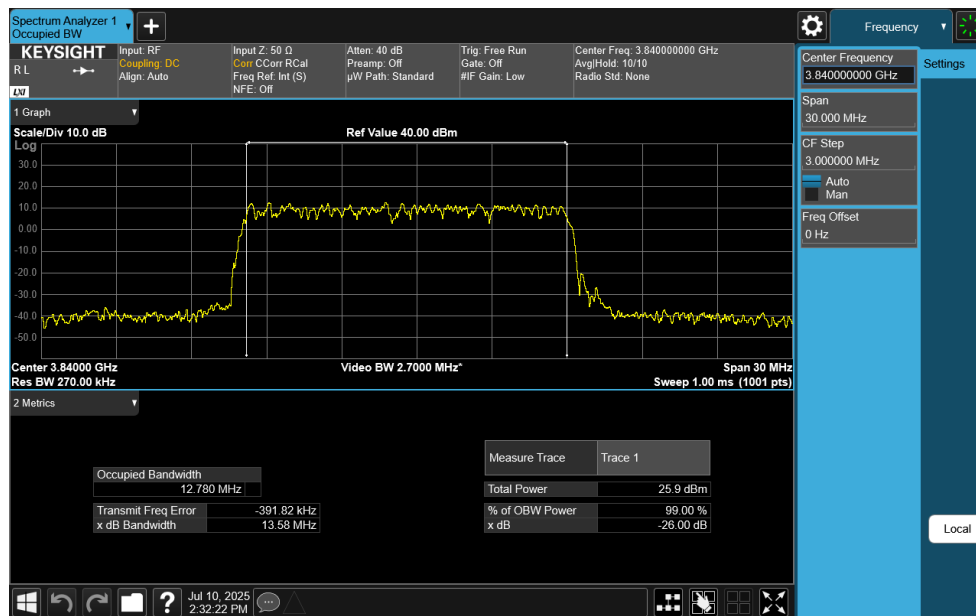
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-65. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 256-QAM - Full RB)

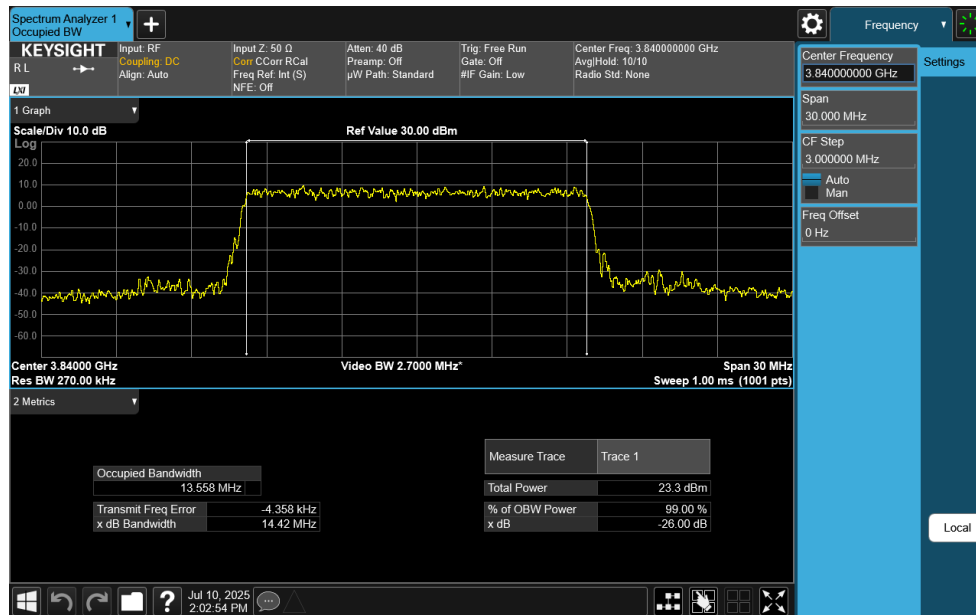


Plot 7-66. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

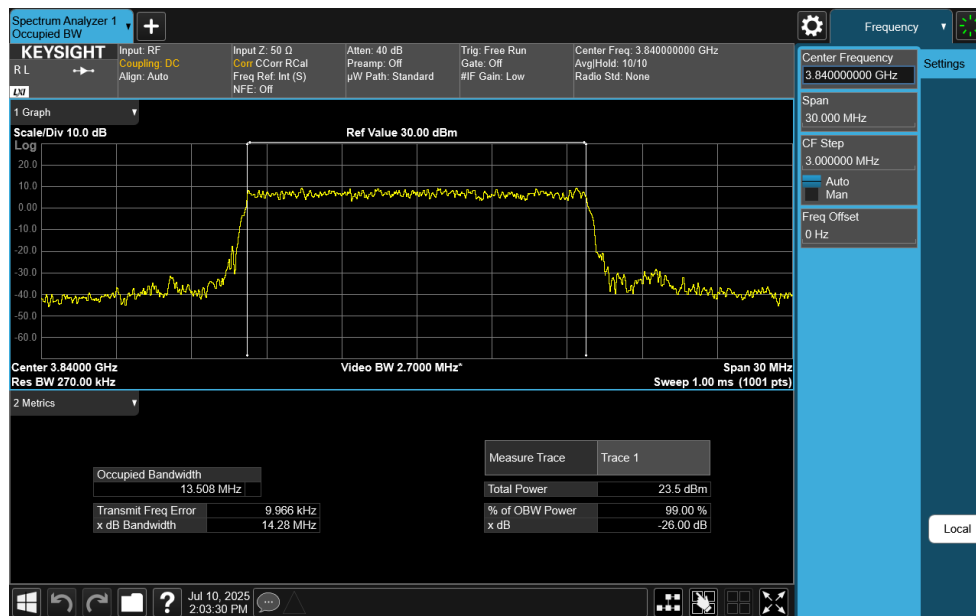
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-67. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM QPSK - Full RB)

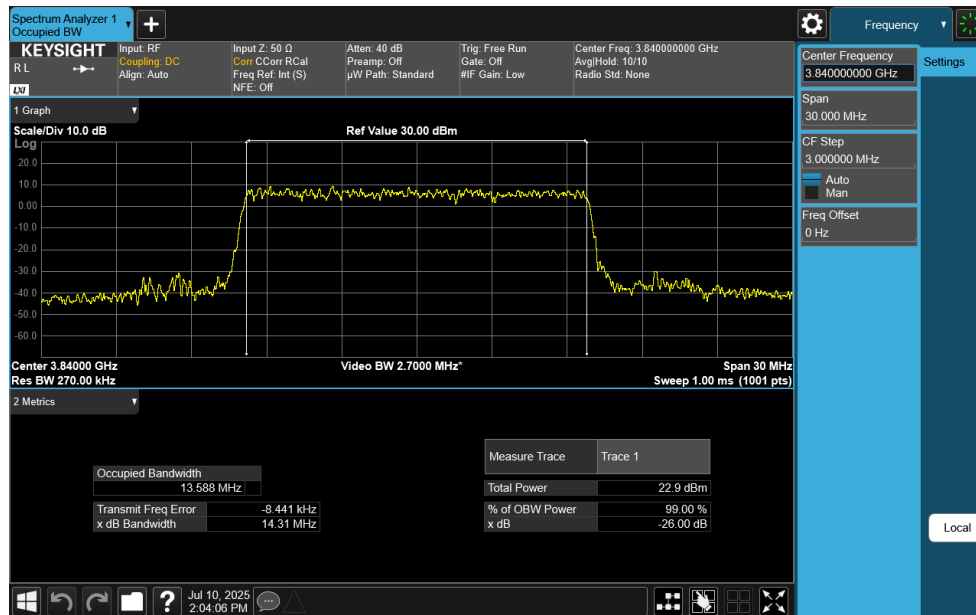


Plot 7-68. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 16-QAM - Full RB)

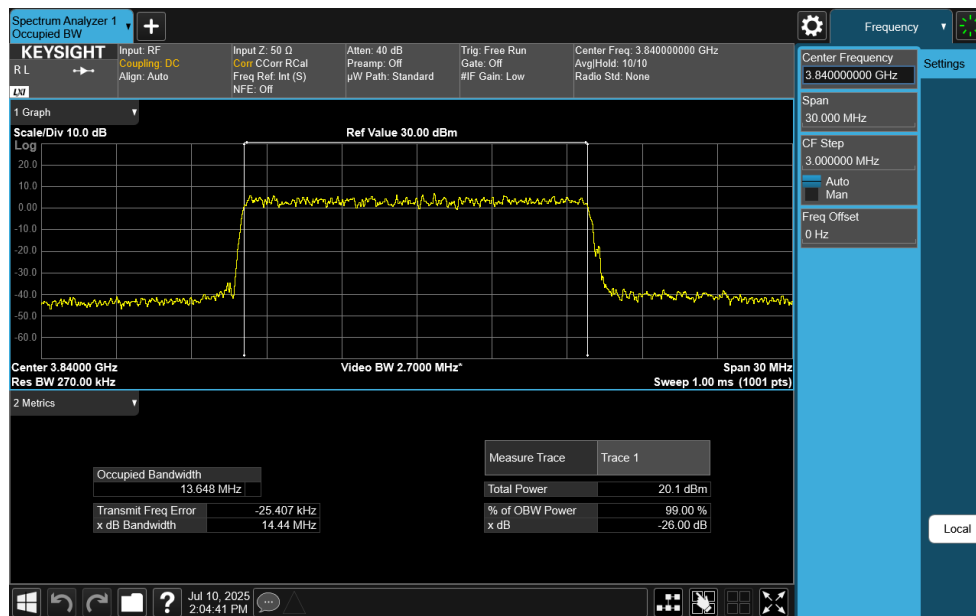
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device	Page 50 of 257

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Plot 7-69. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 64-QAM - Full RB)

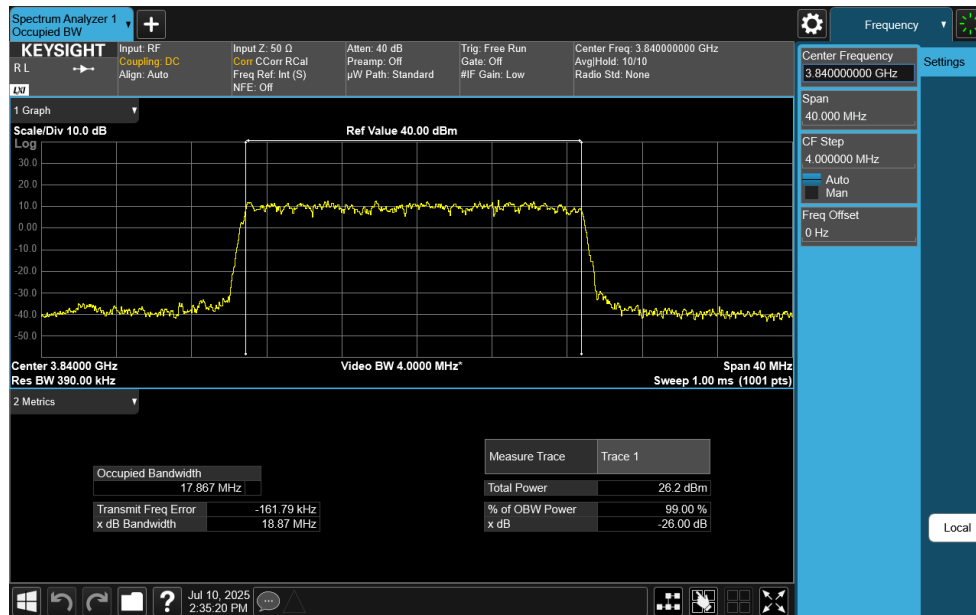


Plot 7-70. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 256-QAM - Full RB)

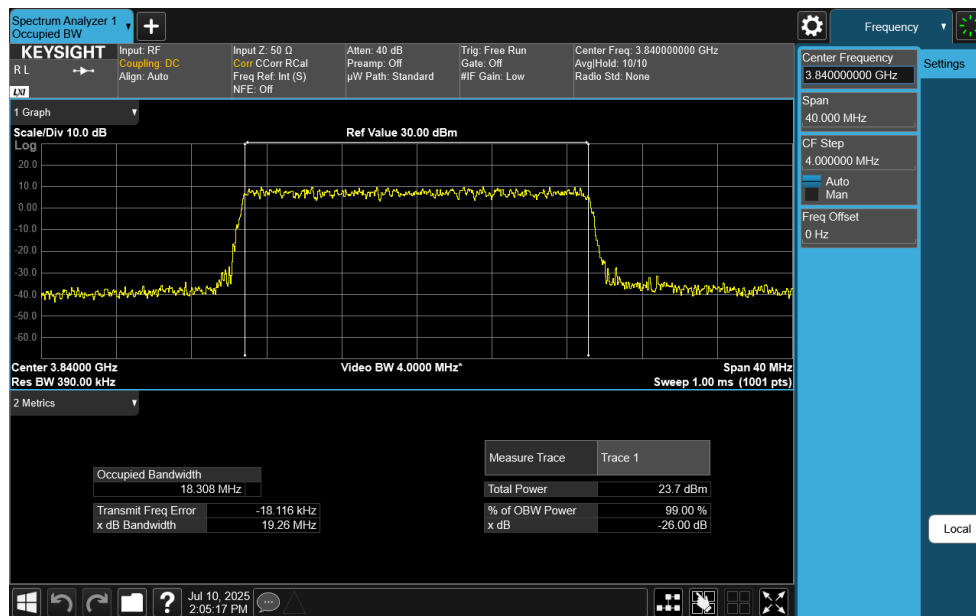
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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Plot 7-71. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-72. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-11.BCG	Test Dates: 5/9/2025 - 8/7/2025	EUT Type: Tablet Device
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