**PART 27 MEASUREMENT REPORT****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.:

1C2509100082-11-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: 1C2509100082-11-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: 1C2509100082-11-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device
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Revision Summary

Revision	Date	Comments	Revised By
-	12/19/2025	Initial release	WKR0000007837
R1	12/29/2025	Addressed Client's Comment in section 7.1	WKR0000007837

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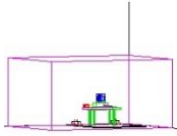
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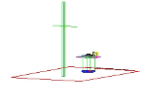
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [W]	Max. Power [dBm]	
NR Band n77 (PC2) (3450 - 3550MHz)	10 MHz	11/2 BPSK	3455.0 - 3545.0	8.5937	4.01	0.824	29.16	8M59G7W
		QPSK	3455.0 - 3545.0	8.5341	4.69	0.804	29.05	8M53G7W
		16QAM	3455.0 - 3545.0	8.5907	5.92	0.619	27.92	8M59D7W
		64QAM	3455.0 - 3545.0	8.5483	6.21	0.524	27.19	8M55D7W
	15 MHz	256QAM	3455.0 - 3545.0	8.6174	6.46	0.336	25.26	8M62D7W
		11/2 BPSK	3457.5 - 3542.5	12.8879	4.04	0.789	28.97	12M9G7W
		QPSK	3457.5 - 3542.5	13.5987	4.88	0.798	29.02	13M6G7W
		16QAM	3457.5 - 3542.5	13.5638	5.75	0.649	28.12	13M6D7W
	20 MHz	64QAM	3457.5 - 3542.5	13.6354	6.45	0.507	27.05	13M6D7W
		256QAM	3457.5 - 3542.5	13.5321	6.46	0.324	25.11	13M5D7W
		11/2 BPSK	3460.0 - 3540.0	17.9470	4.07	0.796	29.01	17M9G7W
		QPSK	3460.0 - 3540.0	18.2997	4.86	0.791	28.98	18M3G7W
	25 MHz	16QAM	3460.0 - 3540.0	18.2073	5.73	0.619	27.92	18M2D7W
		64QAM	3460.0 - 3540.0	18.3460	6.31	0.504	27.02	18M3D7W
		256QAM	3460.0 - 3540.0	18.2905	6.55	0.327	25.14	18M3D7W
		11/2 BPSK	3462.5 - 3537.5	22.9234	4.01	0.791	28.98	22M9G7W
	30 MHz	QPSK	3462.5 - 3537.5	23.2307	4.94	0.780	28.92	23M2G7W
		16QAM	3462.5 - 3537.5	23.2647	5.72	0.619	27.92	23M3D7W
		64QAM	3462.5 - 3537.5	23.1789	6.17	0.511	27.08	23M2D7W
		256QAM	3462.5 - 3537.5	23.1666	6.40	0.324	25.11	23M2D7W
	40 MHz	11/2 BPSK	3465.0 - 3535.0	26.9465	4.14	0.787	28.96	26M9G7W
		QPSK	3465.0 - 3535.0	27.8671	4.98	0.809	29.08	27M9G7W
		16QAM	3465.0 - 3535.0	27.8803	5.79	0.610	27.85	27M9D7W
		64QAM	3465.0 - 3535.0	27.8900	6.40	0.505	27.03	27M9D7W
	50 MHz	256QAM	3465.0 - 3535.0	27.9195	6.57	0.318	25.02	27M9D7W
		11/2 BPSK	3470.0 - 3530.0	35.7793	4.36	0.782	28.93	35M8G7W
		QPSK	3470.0 - 3530.0	37.8373	5.12	0.789	28.97	37M8G7W
		16QAM	3470.0 - 3530.0	37.8899	5.72	0.604	27.81	37M9D7W
	60 MHz	64QAM	3470.0 - 3530.0	37.8414	6.35	0.498	26.97	37M8D7W
		256QAM	3470.0 - 3530.0	38.0343	6.48	0.311	24.93	38M0D7W
		11/2 BPSK	3475.0 - 3525.0	45.6394	4.35	0.791	28.98	45M6G7W
		QPSK	3475.0 - 3525.0	47.6697	4.97	0.771	28.87	47M7G7W
	70 MHz	16QAM	3475.0 - 3525.0	47.5659	5.78	0.594	27.74	47M6D7W
		64QAM	3475.0 - 3525.0	47.3858	6.36	0.504	27.02	47M4D7W
		256QAM	3475.0 - 3525.0	47.5116	6.46	0.316	24.99	47M5D7W
		11/2 BPSK	3480.0 - 3520.0	57.8098	4.17	0.766	28.84	57M8G7W
	80 MHz	QPSK	3480.0 - 3520.0	57.9448	4.86	0.805	29.06	57M9G7W
		16QAM	3480.0 - 3520.0	57.8005	5.78	0.586	27.68	57M8D7W
		64QAM	3480.0 - 3520.0	57.9093	6.39	0.486	26.87	57M9D7W
		256QAM	3480.0 - 3520.0	58.1460	6.60	0.308	24.88	58M1D7W
	90 MHz	11/2 BPSK	3485.0 - 3515.0	64.4112	4.20	0.771	28.87	64M4G7W
		QPSK	3485.0 - 3515.0	67.5573	4.82	0.774	28.89	67M6G7W
		16QAM	3485.0 - 3515.0	67.6526	5.76	0.619	27.92	67M7D7W
		64QAM	3485.0 - 3515.0	67.6088	6.34	0.484	26.85	67M6D7W
	100 MHz	256QAM	3485.0 - 3515.0	67.5907	6.62	0.307	24.87	67M6D7W
		11/2 BPSK	3490.0 - 3510.0	77.2811	4.62	0.791	28.98	77M3G7W
		QPSK	3490.0 - 3510.0	77.5918	4.96	0.780	28.92	77M6G7W
		16QAM	3490.0 - 3510.0	77.6412	5.73	0.598	27.77	77M6D7W
	100 MHz	64QAM	3490.0 - 3510.0	77.6295	6.30	0.491	26.91	77M6D7W
		256QAM	3490.0 - 3510.0	77.3511	6.58	0.310	24.91	77M4D7W
		11/2 BPSK	3495.0 - 3505.0	86.7582	4.14	0.791	28.98	86M8G7W
		QPSK	3495.0 - 3505.0	87.6736	4.87	0.782	28.93	87M7G7W
		16QAM	3495.0 - 3505.0	87.7005	5.75	0.597	27.76	87M7D7W
		64QAM	3495.0 - 3505.0	87.6309	6.37	0.483	26.84	87M6D7W
		256QAM	3495.0 - 3505.0	87.6719	6.65	0.305	24.85	87M7D7W
	100 MHz	11/2 BPSK	3500	96.3463	4.67	0.798	29.02	96M3G7W
		QPSK	3500	97.5638	4.97	0.780	28.92	97M6G7W
		16QAM	3500	97.7067	5.76	0.596	27.75	97M7D7W
		64QAM	3500	97.3323	6.31	0.479	26.80	97M3D7W
		256QAM	3500	97.4952	6.65	0.301	24.78	97M5D7W

EUT Overview

FCC ID: BCGA3462		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	TT/2 BPSK	3455.0 - 3545.0	8.5937	4.01	0.676	28.30	8M59G7W
		QPSK	3455.0 - 3545.0	8.5341	4.69	0.670	28.26	8M53G7W
		16QAM	3455.0 - 3545.0	8.5907	5.92	0.516	27.13	8M59D7W
		64QAM	3455.0 - 3545.0	8.5483	6.21	0.436	26.39	8M55D7W
		256QAM	3455.0 - 3545.0	8.6174	6.46	0.275	24.39	8M62D7W
	15 MHz	TT/2 BPSK	3457.5 - 3542.5	12.8879	4.04	0.656	28.17	12M9G7W
		QPSK	3457.5 - 3542.5	13.5987	4.88	0.667	28.24	13M6G7W
		16QAM	3457.5 - 3542.5	13.5638	5.75	0.532	27.26	13M6D7W
		64QAM	3457.5 - 3542.5	13.6354	6.45	0.430	26.33	13M6D7W
		256QAM	3457.5 - 3542.5	13.5321	6.46	0.270	24.32	13M5D7W
	20 MHz	TT/2 BPSK	3460.0 - 3540.0	17.9470	4.07	0.676	28.30	17M9G7W
		QPSK	3460.0 - 3540.0	18.2997	4.86	0.668	28.25	18M3G7W
		16QAM	3460.0 - 3540.0	18.2073	5.73	0.533	27.27	18M2D7W
		64QAM	3460.0 - 3540.0	18.3460	6.31	0.426	26.29	18M3D7W
		256QAM	3460.0 - 3540.0	18.2905	6.55	0.273	24.36	18M3D7W
	25 MHz	TT/2 BPSK	3462.5 - 3537.5	22.9234	4.01	0.671	28.27	22M9G7W
		QPSK	3462.5 - 3537.5	23.2307	4.94	0.664	28.22	23M2G7W
		16QAM	3462.5 - 3537.5	23.2647	5.72	0.519	27.15	23M3D7W
		64QAM	3462.5 - 3537.5	23.1789	6.17	0.434	26.37	23M2D7W
		256QAM	3462.5 - 3537.5	23.1666	6.40	0.272	24.35	23M2D7W
	30MHz	TT/2 BPSK	3465.0 - 3535.0	26.9465	4.14	0.667	28.24	26M9G7W
		QPSK	3465.0 - 3535.0	27.8671	4.98	0.675	28.29	27M9G7W
		16QAM	3465.0 - 3535.0	27.8803	5.79	0.525	27.20	27M9D7W
		64QAM	3465.0 - 3535.0	27.8900	6.40	0.430	26.33	27M9D7W
		256QAM	3465.0 - 3535.0	27.9195	6.57	0.269	24.30	27M9D7W
	40 MHz	TT/2 BPSK	3470.0 - 3530.0	35.7793	4.36	0.670	28.26	35M8G7W
		QPSK	3470.0 - 3530.0	37.8373	5.12	0.673	28.28	37M8G7W
		16QAM	3470.0 - 3530.0	37.8899	5.72	0.525	27.20	37M9D7W
		64QAM	3470.0 - 3530.0	37.8414	6.35	0.433	26.36	37M8D7W
		256QAM	3470.0 - 3530.0	38.0343	6.48	0.272	24.35	38M0D7W
	50 MHz	TT/2 BPSK	3475.0 - 3525.0	45.6394	4.35	0.671	28.27	45M6G7W
		QPSK	3475.0 - 3525.0	47.6697	4.97	0.643	28.08	47M7G7W
		16QAM	3475.0 - 3525.0	47.5659	5.78	0.491	26.91	47M6D7W
		64QAM	3475.0 - 3525.0	47.3858	6.36	0.425	26.28	47M4D7W
		256QAM	3475.0 - 3525.0	47.5116	6.46	0.269	24.29	47M5D7W
	60 MHz	TT/2 BPSK	3480.0 - 3520.0	57.8098	4.17	0.670	28.26	57M8G7W
		QPSK	3480.0 - 3520.0	57.9448	4.86	0.673	28.28	57M9G7W
		16QAM	3480.0 - 3520.0	57.8005	5.78	0.526	27.21	57M8D7W
		64QAM	3480.0 - 3520.0	57.9093	6.39	0.427	26.30	57M9D7W
		256QAM	3480.0 - 3520.0	58.1460	6.60	0.267	24.27	58M1D7W
	70 MHz	TT/2 BPSK	3485.0 - 3515.0	64.4112	4.20	0.667	28.24	64M4G7W
		QPSK	3485.0 - 3515.0	67.5573	4.82	0.664	28.22	67M6G7W
		16QAM	3485.0 - 3515.0	67.6526	5.76	0.509	27.07	67M7D7W
		64QAM	3485.0 - 3515.0	67.6088	6.34	0.428	26.31	67M6D7W
		256QAM	3485.0 - 3515.0	67.5907	6.62	0.267	24.27	67M6D7W
	80 MHz	TT/2 BPSK	3490.0 - 3510.0	77.2811	4.62	0.668	28.25	77M3G7W
		QPSK	3490.0 - 3510.0	77.5918	4.96	0.673	28.28	77M6G7W
		16QAM	3490.0 - 3510.0	77.6412	5.73	0.521	27.17	77M6D7W
		64QAM	3490.0 - 3510.0	77.6295	6.30	0.426	26.29	77M6D7W
		256QAM	3490.0 - 3510.0	77.3511	6.58	0.268	24.28	77M4D7W
	90 MHz	TT/2 BPSK	3495.0 - 3505.0	86.7582	4.14	0.668	28.25	86M8G7W
		QPSK	3495.0 - 3505.0	87.6736	4.87	0.675	28.29	87M7G7W
		16QAM	3495.0 - 3505.0	87.7005	5.75	0.513	27.10	87M7D7W
		64QAM	3495.0 - 3505.0	87.6309	6.37	0.410	26.13	87M6D7W
		256QAM	3495.0 - 3505.0	87.6719	6.65	0.261	24.17	87M7D7W
	100 MHz	TT/2 BPSK	3500	96.3463	4.67	0.661	28.20	96M3G7W
		QPSK	3500	97.5638	4.97	0.628	27.98	97M6G7W
		16QAM	3500	97.7067	5.76	0.488	26.88	97M7D7W
		64QAM	3500	97.3323	6.31	0.408	26.11	97M3D7W
		256QAM	3500	97.4952	6.65	0.256	24.09	97M5D7W

EUT Overview

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	TT/2 BPSK	3705.0 - 3975.0	8.5955	3.91	0.561	27.49	8M60G7W
		QPSK	3705.0 - 3975.0	8.6238	4.58	0.561	27.49	8M62G7W
		16QAM	3705.0 - 3975.0	8.6054	5.78	0.431	26.34	8M61D7W
		64QAM	3705.0 - 3975.0	8.5636	6.08	0.369	25.67	8M56D7W
		256QAM	3705.0 - 3975.0	8.6050	6.30	0.231	23.63	8M61D7W
	15 MHz	TT/2 BPSK	3707.5 - 3972.5	12.8664	3.83	0.557	27.46	12M9G7W
		QPSK	3707.5 - 3972.5	13.6450	4.74	0.557	27.46	13M6G7W
		16QAM	3707.5 - 3972.5	13.6139	5.61	0.448	26.51	13M6D7W
		64QAM	3707.5 - 3972.5	13.6012	6.27	0.360	25.56	13M6D7W
		256QAM	3707.5 - 3972.5	13.6346	6.29	0.226	23.55	13M6D7W
	20 MHz	TT/2 BPSK	3710.0 - 3970.0	17.8848	3.90	0.560	27.48	17M9G7W
		QPSK	3710.0 - 3970.0	18.2927	4.66	0.553	27.43	18M3G7W
		16QAM	3710.0 - 3970.0	18.1948	5.58	0.443	26.46	18M2D7W
		64QAM	3710.0 - 3970.0	18.2382	6.13	0.356	25.51	18M2D7W
		256QAM	3710.0 - 3970.0	18.2525	6.37	0.228	23.57	18M3D7W
	25MHz	TT/2 BPSK	3712.5 - 3967.5	22.9750	3.73	0.562	27.50	23M0G7W
		QPSK	3712.5 - 3967.5	23.2395	4.74	0.562	27.50	23M2G7W
		16QAM	3712.5 - 3967.5	23.3378	5.58	0.447	26.50	23M3D7W
		64QAM	3712.5 - 3967.5	23.2295	6.03	0.362	25.59	23M2D7W
		256QAM	3712.5 - 3967.5	23.3069	6.23	0.226	23.55	23M3D7W
	30MHz	TT/2 BPSK	3715.0 - 3965.0	26.8828	3.72	0.555	27.44	26M9G7W
		QPSK	3715.0 - 3965.0	27.9750	4.67	0.558	27.47	28M0G7W
		16QAM	3715.0 - 3965.0	27.9572	5.52	0.436	26.39	28M0D7W
		64QAM	3715.0 - 3965.0	27.9948	6.05	0.356	25.52	28M0D7W
		256QAM	3715.0 - 3965.0	27.8404	6.27	0.222	23.47	27M8D7W
	40 MHz	TT/2 BPSK	3720.0 - 3960.0	35.6794	4.10	0.558	27.47	35M7G7W
		QPSK	3720.0 - 3960.0	37.9191	4.89	0.552	27.42	37M9G7W
		16QAM	3720.0 - 3960.0	37.9204	5.63	0.431	26.34	37M9D7W
		64QAM	3720.0 - 3960.0	37.9850	6.01	0.357	25.53	38M0D7W
		256QAM	3720.0 - 3960.0	37.9120	6.30	0.223	23.49	37M9D7W
	50 MHz	TT/2 BPSK	3725.0 - 3955.0	45.6558	4.15	0.555	27.44	45M7G7W
		QPSK	3725.0 - 3955.0	47.4764	4.77	0.555	27.44	47M5G7W
		16QAM	3725.0 - 3955.0	47.5701	5.76	0.448	26.51	47M6D7W
		64QAM	3725.0 - 3955.0	47.5135	6.14	0.366	25.64	47M5D7W
		256QAM	3725.0 - 3955.0	47.5345	6.31	0.229	23.59	47M5D7W
	60 MHz	TT/2 BPSK	3730.0 - 3950.0	57.7821	4.27	0.555	27.44	57M8G7W
		QPSK	3730.0 - 3950.0	58.0316	4.66	0.551	27.41	58M0G7W
		16QAM	3730.0 - 3950.0	57.9316	5.84	0.438	26.41	57M9D7W
		64QAM	3730.0 - 3950.0	58.0251	6.14	0.356	25.52	58M0D7W
		256QAM	3730.0 - 3950.0	58.0135	6.42	0.224	23.51	58M0D7W
	70 MHz	TT/2 BPSK	3735.0 - 3945.0	64.4774	3.79	0.561	27.49	64M5G7W
		QPSK	3735.0 - 3945.0	67.6187	4.49	0.553	27.43	67M6G7W
		16QAM	3735.0 - 3945.0	67.6264	5.84	0.434	26.37	67M6D7W
		64QAM	3735.0 - 3945.0	67.7369	6.08	0.357	25.53	67M7D7W
		256QAM	3735.0 - 3945.0	67.6585	6.45	0.224	23.50	67M7D7W
	80 MHz	TT/2 BPSK	3740.0 - 3940.0	77.2445	4.22	0.562	27.50	77M2G7W
		QPSK	3740.0 - 3940.0	77.4734	4.67	0.560	27.48	77M5G7W
		16QAM	3740.0 - 3940.0	77.4702	5.98	0.428	26.31	77M5D7W
		64QAM	3740.0 - 3940.0	77.5700	6.14	0.358	25.54	77M6D7W
		256QAM	3740.0 - 3940.0	77.5209	6.52	0.226	23.54	77M5D7W
	90 MHz	TT/2 BPSK	3745.0 - 3935.0	86.7109	4.17	0.553	27.43	86M7G7W
		QPSK	3745.0 - 3935.0	87.6110	4.98	0.558	27.47	87M6G7W
		16QAM	3745.0 - 3935.0	87.6334	6.24	0.415	26.18	87M6D7W
		64QAM	3745.0 - 3935.0	87.7394	6.44	0.351	25.45	87M7D7W
		256QAM	3745.0 - 3935.0	87.9524	6.66	0.220	23.42	88M0D7W
	100 MHz	TT/2 BPSK	3750.0 - 3930.0	96.4562	4.45	0.562	27.50	96M5G7W
		QPSK	3750.0 - 3930.0	97.6627	5.16	0.532	27.26	97M7G7W
		16QAM	3750.0 - 3930.0	97.3922	6.39	0.422	26.25	97M4D7W
		64QAM	3750.0 - 3930.0	97.5541	6.63	0.355	25.50	97M6D7W
		256QAM	3750.0 - 3930.0	97.5272	6.76	0.223	23.49	97M5D7W

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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	TT/2 BPSK	3705.0 - 3975.0	8.5955	3.91	0.460	26.63	8M60G7W
		QPSK	3705.0 - 3975.0	8.6238	4.58	0.459	26.62	8M62G7W
		16QAM	3705.0 - 3975.0	8.6054	5.78	0.350	25.44	8M61D7W
		64QAM	3705.0 - 3975.0	8.5636	6.08	0.299	24.76	8M56D7W
		256QAM	3705.0 - 3975.0	8.6050	6.30	0.187	22.71	8M61D7W
	15 MHz	TT/2 BPSK	3707.5 - 3972.5	12.8664	3.83	0.459	26.62	12M9G7W
		QPSK	3707.5 - 3972.5	13.6450	4.74	0.466	26.68	13M6G7W
		16QAM	3707.5 - 3972.5	13.6139	5.61	0.359	25.55	13M6D7W
		64QAM	3707.5 - 3972.5	13.6012	6.27	0.294	24.69	13M6D7W
		256QAM	3707.5 - 3972.5	13.6346	6.29	0.186	22.70	13M6D7W
	20 MHz	TT/2 BPSK	3710.0 - 3970.0	17.8848	3.90	0.456	26.59	17M9G7W
		QPSK	3710.0 - 3970.0	18.2927	4.66	0.458	26.61	18M3G7W
		16QAM	3710.0 - 3970.0	18.1948	5.58	0.357	25.53	18M2D7W
		64QAM	3710.0 - 3970.0	18.2382	6.13	0.292	24.66	18M2D7W
		256QAM	3710.0 - 3970.0	18.2525	6.37	0.187	22.73	18M3D7W
	25MHz	TT/2 BPSK	3712.5 - 3967.5	22.9750	3.73	0.466	26.68	23M0G7W
		QPSK	3712.5 - 3967.5	23.2395	4.74	0.456	26.59	23M2G7W
		16QAM	3712.5 - 3967.5	23.3378	5.58	0.348	25.41	23M3D7W
		64QAM	3712.5 - 3967.5	23.2295	6.03	0.299	24.76	23M2D7W
		256QAM	3712.5 - 3967.5	23.3069	6.23	0.190	22.78	23M3D7W
	30MHz	TT/2 BPSK	3715.0 - 3965.0	26.8828	3.72	0.458	26.61	26M9G7W
		QPSK	3715.0 - 3965.0	27.9750	4.67	0.466	26.68	28M0G7W
		16QAM	3715.0 - 3965.0	27.9572	5.52	0.355	25.50	28M0D7W
		64QAM	3715.0 - 3965.0	27.9948	6.05	0.297	24.73	28M0D7W
		256QAM	3715.0 - 3965.0	27.8404	6.27	0.185	22.67	27M8D7W
	40 MHz	TT/2 BPSK	3720.0 - 3960.0	35.6794	4.10	0.452	26.55	35M7G7W
		QPSK	3720.0 - 3960.0	37.9191	4.89	0.465	26.67	37M9G7W
		16QAM	3720.0 - 3960.0	37.9204	5.63	0.344	25.36	37M9D7W
		64QAM	3720.0 - 3960.0	37.9850	6.01	0.290	24.62	38M0D7W
		256QAM	3720.0 - 3960.0	37.9120	6.30	0.183	22.62	37M9D7W
	50 MHz	TT/2 BPSK	3725.0 - 3955.0	45.6558	4.15	0.468	26.70	45M7G7W
		QPSK	3725.0 - 3955.0	47.4764	4.77	0.453	26.56	47M5G7W
		16QAM	3725.0 - 3955.0	47.5701	5.76	0.343	25.35	47M6D7W
		64QAM	3725.0 - 3955.0	47.5135	6.14	0.292	24.66	47M5D7W
		256QAM	3725.0 - 3955.0	47.5345	6.31	0.184	22.64	47M5D7W
	60 MHz	TT/2 BPSK	3730.0 - 3950.0	57.7821	4.27	0.463	26.66	57M8G7W
		QPSK	3730.0 - 3950.0	58.0316	4.66	0.459	26.62	58M0G7W
		16QAM	3730.0 - 3950.0	57.9316	5.84	0.356	25.52	57M9D7W
		64QAM	3730.0 - 3950.0	58.0251	6.14	0.296	24.71	58M0D7W
		256QAM	3730.0 - 3950.0	58.0135	6.42	0.186	22.70	58M0D7W
	70 MHz	TT/2 BPSK	3735.0 - 3945.0	64.4774	3.79	0.463	26.66	64M5G7W
		QPSK	3735.0 - 3945.0	67.6187	4.49	0.449	26.52	67M6G7W
		16QAM	3735.0 - 3945.0	67.6264	5.84	0.355	25.50	67M6D7W
		64QAM	3735.0 - 3945.0	67.7369	6.08	0.297	24.73	67M7D7W
		256QAM	3735.0 - 3945.0	67.6585	6.45	0.185	22.67	67M7D7W
	80 MHz	TT/2 BPSK	3740.0 - 3940.0	77.2445	4.22	0.463	26.66	77M2G7W
		QPSK	3740.0 - 3940.0	77.4734	4.67	0.460	26.63	77M5G7W
		16QAM	3740.0 - 3940.0	77.4702	5.98	0.356	25.51	77M5D7W
		64QAM	3740.0 - 3940.0	77.5700	6.14	0.292	24.65	77M6D7W
		256QAM	3740.0 - 3940.0	77.5209	6.52	0.186	22.69	77M5D7W
	90 MHz	TT/2 BPSK	3745.0 - 3935.0	86.7109	4.17	0.466	26.68	86M7G7W
		QPSK	3745.0 - 3935.0	87.6110	4.98	0.456	26.59	87M6G7W
		16QAM	3745.0 - 3935.0	87.6334	6.24	0.354	25.49	87M6D7W
		64QAM	3745.0 - 3935.0	87.7394	6.44	0.289	24.61	87M7D7W
		256QAM	3745.0 - 3935.0	87.9524	6.66	0.185	22.67	88M0D7W
	100 MHz	TT/2 BPSK	3750.0 - 3930.0	96.4562	4.45	0.466	26.68	96M5G7W
		QPSK	3750.0 - 3930.0	97.6627	5.16	0.456	26.59	97M7G7W
		16QAM	3750.0 - 3930.0	97.3922	6.39	0.366	25.64	97M4D7W
		64QAM	3750.0 - 3930.0	97.5541	6.63	0.295	24.70	97M6D7W
		256QAM	3750.0 - 3930.0	97.5272	6.76	0.188	22.74	97M5D7W

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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 Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID:BCGA3462**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 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.

This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 1a	Config 1	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 1a	Config 2	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 1a	Config 3	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 1b	Config 4	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 1b	Config 5	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 1b	Config 6	✗	✗	✗	✓	✗	✗	✗	✓	✗
Ant 3a	Config 7	✗	✗	✓	✗	✗	✗	✗	✗	✓
Ant 3a	Config 8	✓	✗	✗	✗	✗	✗	✗	✗	✓
Ant 3a	Config 9	✗	✓	✗	✗	✗	✗	✗	✗	✓
Ant 3b	Config 10	✗	✗	✗	✗	✓	✗	✗	✓	✗
Ant 3b	Config 11	✗	✗	✗	✗	✗	✓	✗	✓	✗
Ant 3b	Config 12	✗	✗	✗	✓	✗	✗	✗	✓	✗

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 8 and reported in RF Part 96 and RF Bluetooth test reports.

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2.3 Antenna Description

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

Band	Antenna Gain [dBi]			
	Antenna 3a	Antenna 2	Antenna 4	Antenna 1a
NR Band n77 (Sub 1)	1.9	2.8	1.9	-0.9
NR Band n77 (Sub 2)	-0.4	1.2	0.5	-1.5

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	A2795	S/N:	DWH80115BK826GV19
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-3. Test Support Equipment

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26 2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

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

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.6 Software and Firmware

The test was conducted with firmware version 23D40 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure.....None

3.2 Radiated Spurious Emissions

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

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

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

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

And

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

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

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

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

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
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

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: BCGA3462
 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)	2.1053, 27.53(n)(2)	-13 for all out-of-band emissions	PASS	Section 7.7
	Radiated Spurious Emissions (NR Band n77 - 3700-3980MHz)	2.1053, 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 3.6.1.

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7.2 Occupied Bandwidth

\$2.1049

Test Overview

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

Test Procedure Used

KDB 971168 D01 v03r01 – Section 4.2

Test Settings

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

Test Setup

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

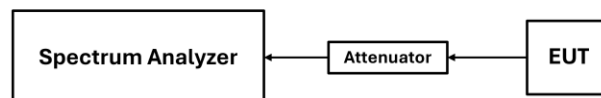


Figure 7-1. FR1 Test Instrument & Measurement Setup

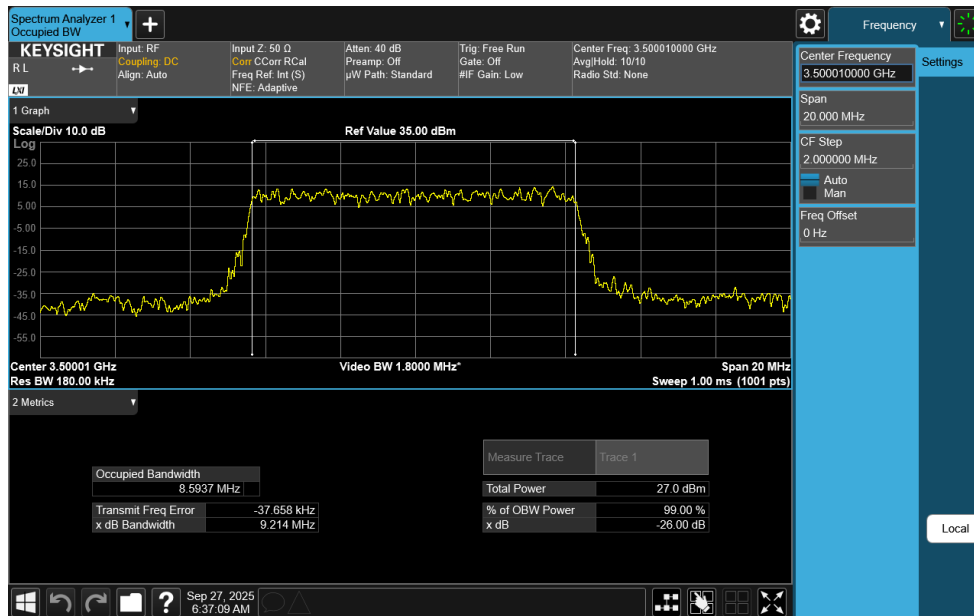
Test Notes

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.

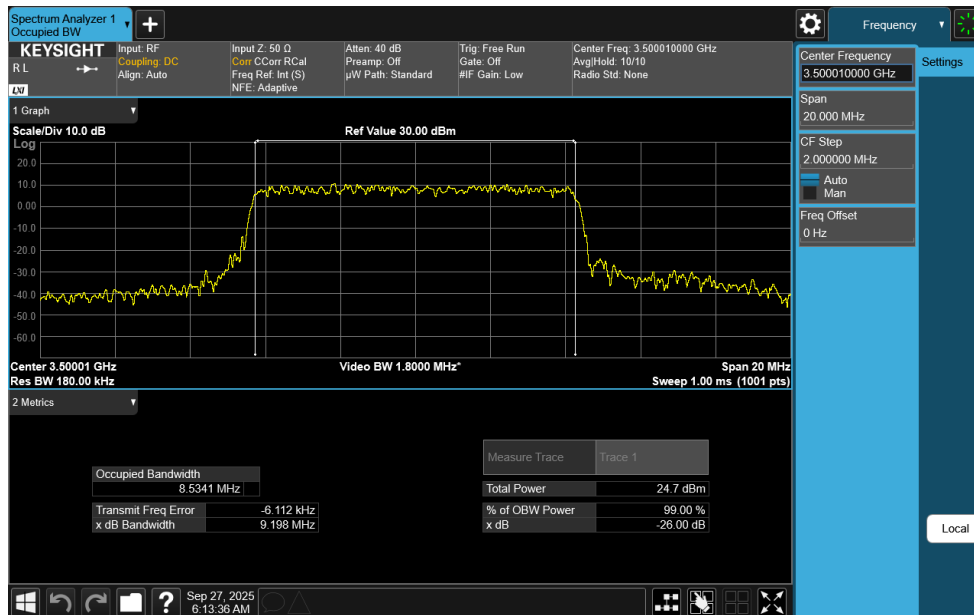
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NR Band n77 DoD-Band



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

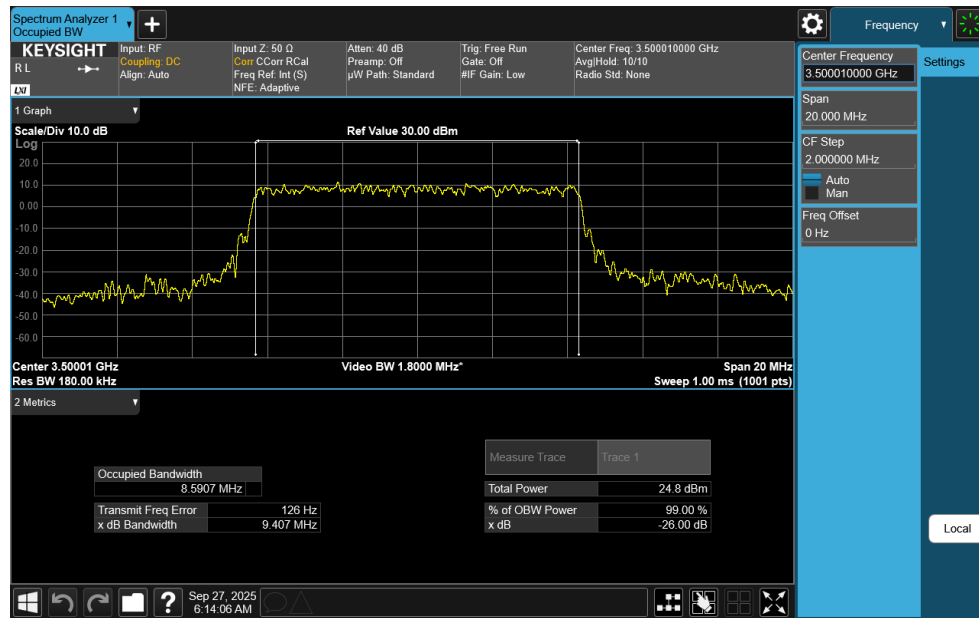


Plot 7-2. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM QPSK - Full RB)

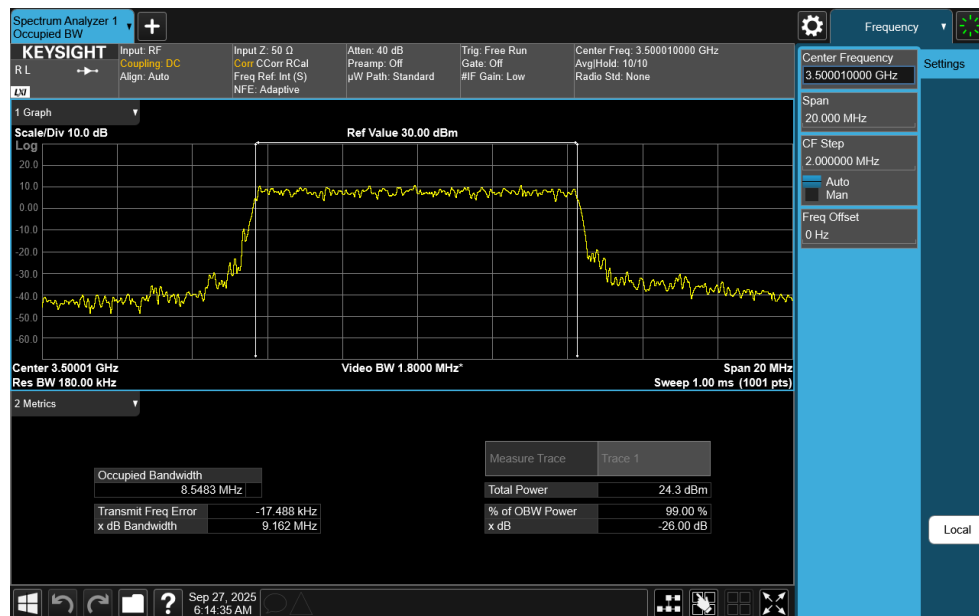
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-3. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 16-QAM - Full RB)

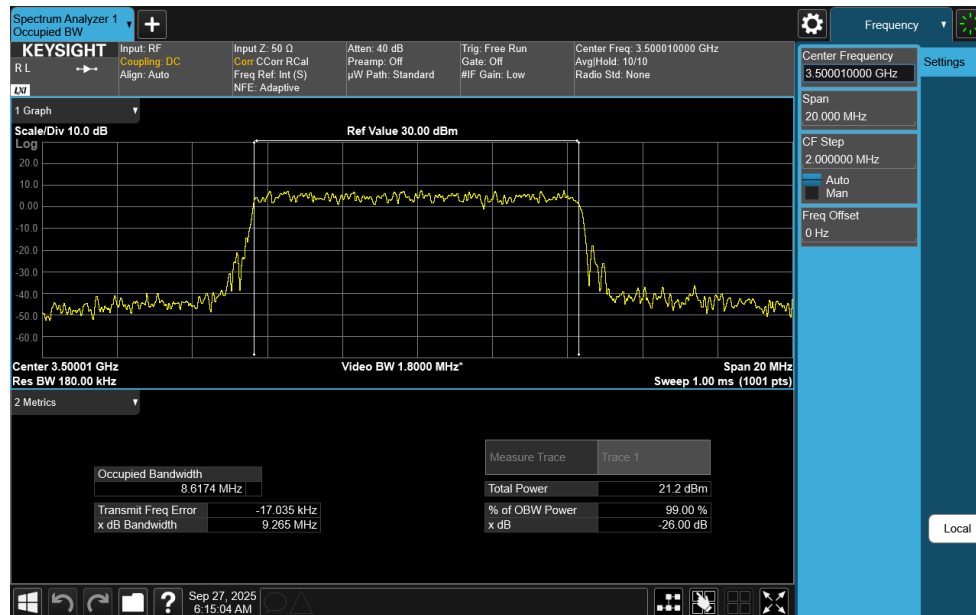


Plot 7-4. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 64-QAM - Full RB)

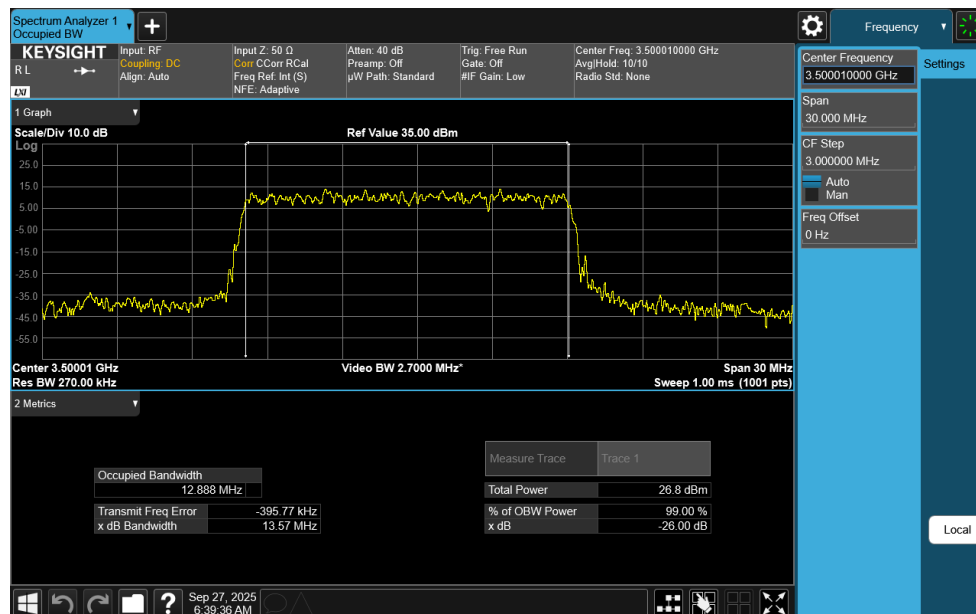
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-5. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 10MHz CP-OFDM 256-QAM - Full RB)

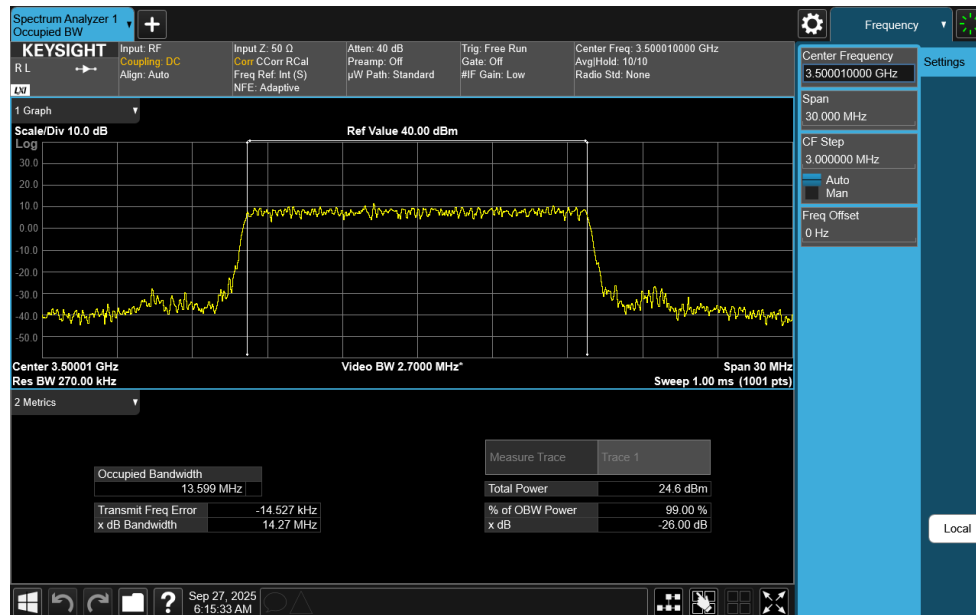


Plot 7-6. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

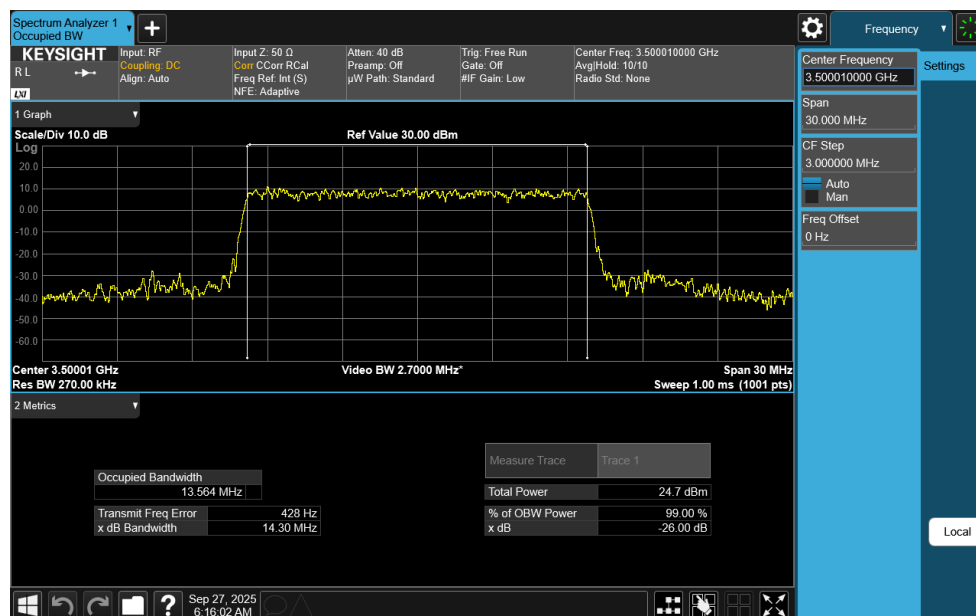
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-7. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM QPSK - Full RB)

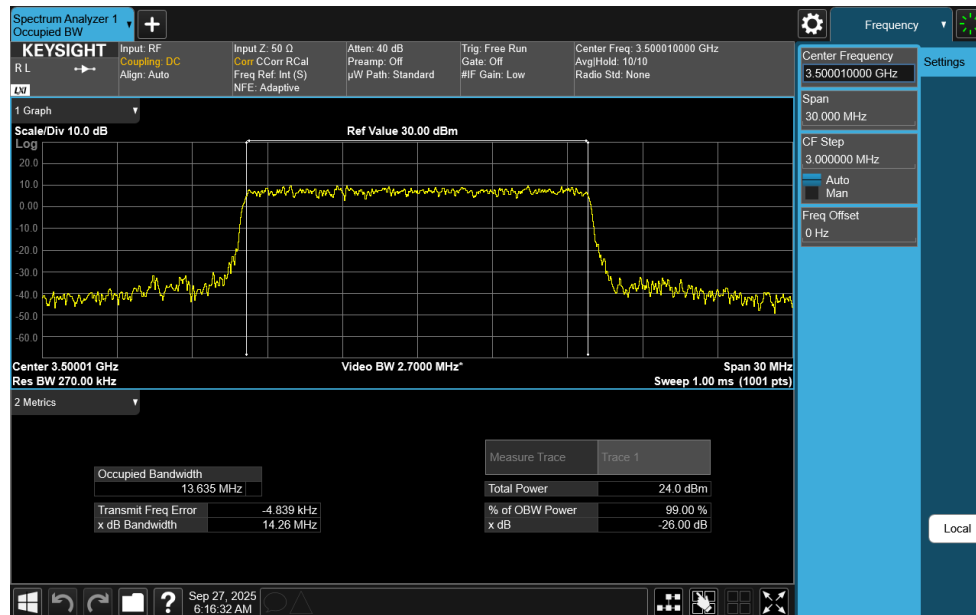


Plot 7-8. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 16-QAM - Full RB)

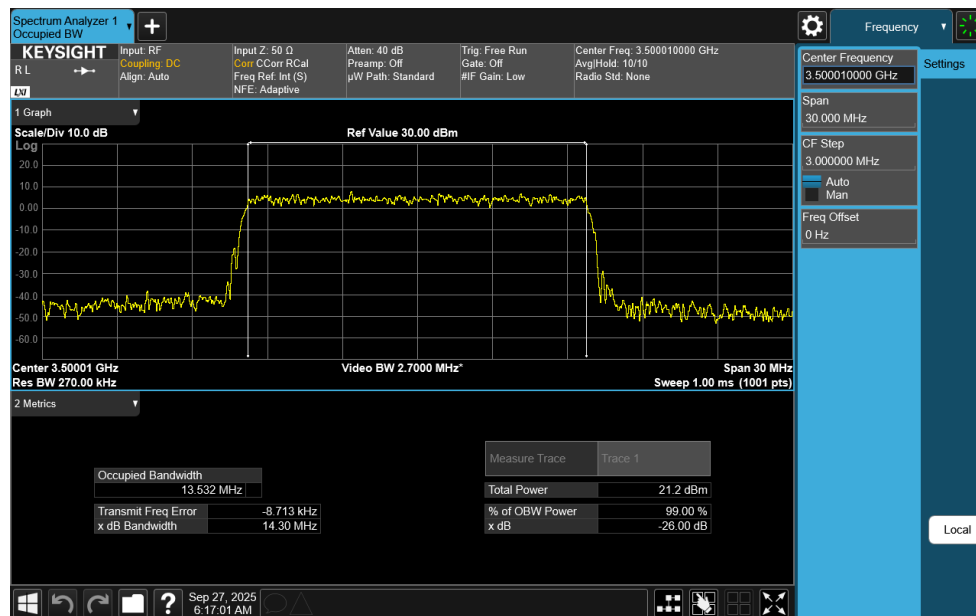
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-9. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 64-QAM - Full RB)

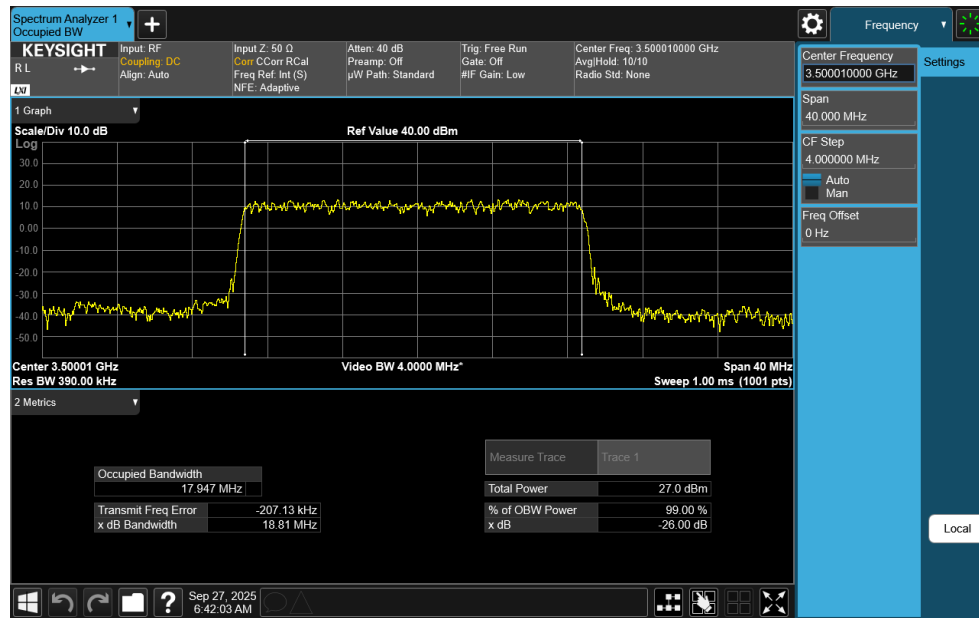


Plot 7-10. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 15MHz CP-OFDM 256-QAM - Full RB)

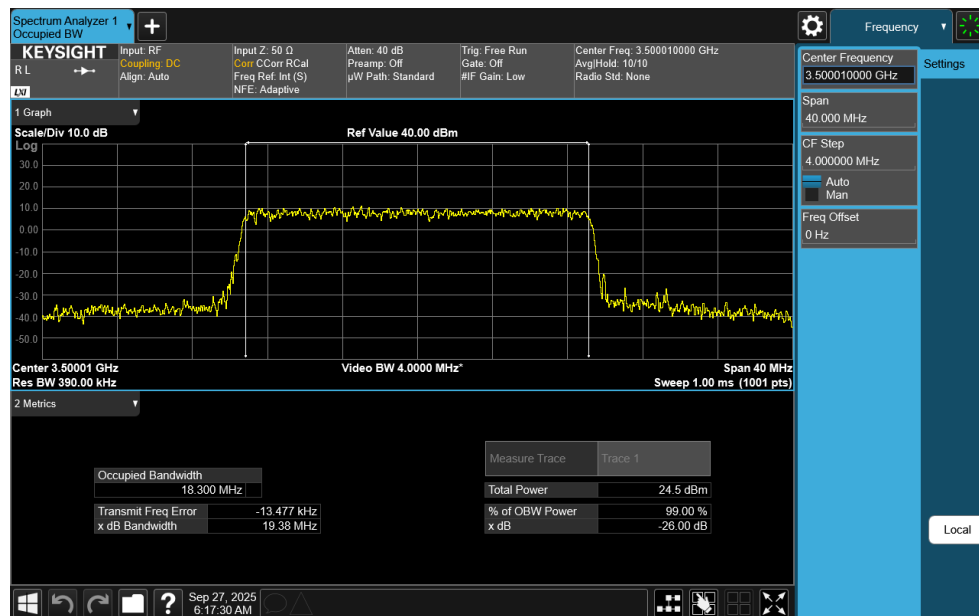
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-11. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

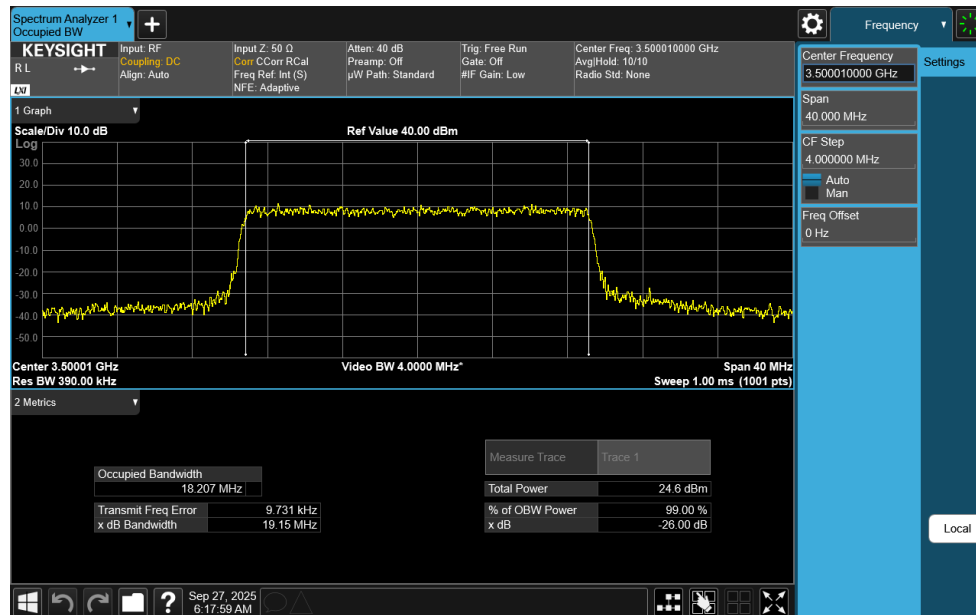


Plot 7-12. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM QPSK - Full RB)

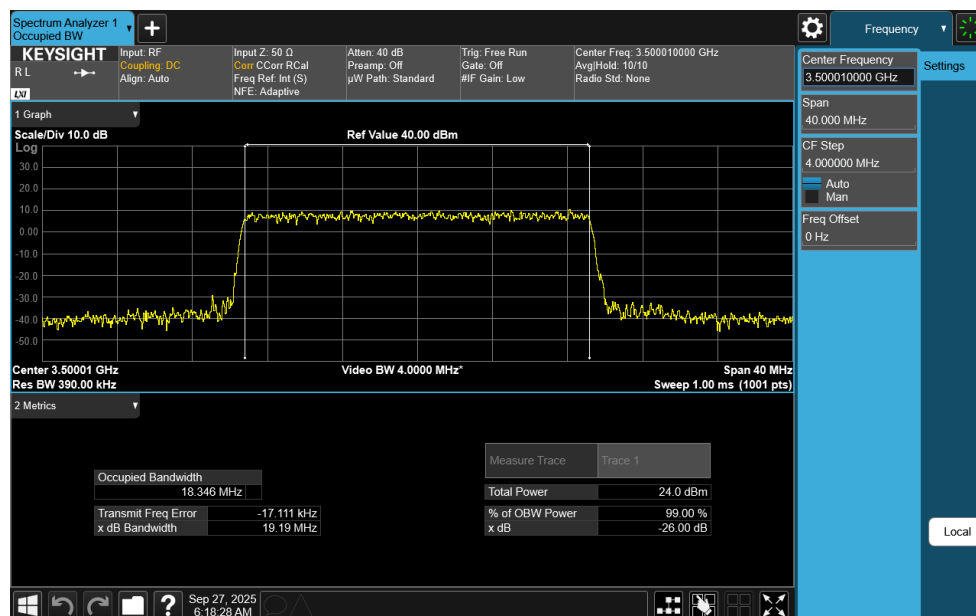
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 16-QAM - Full RB)

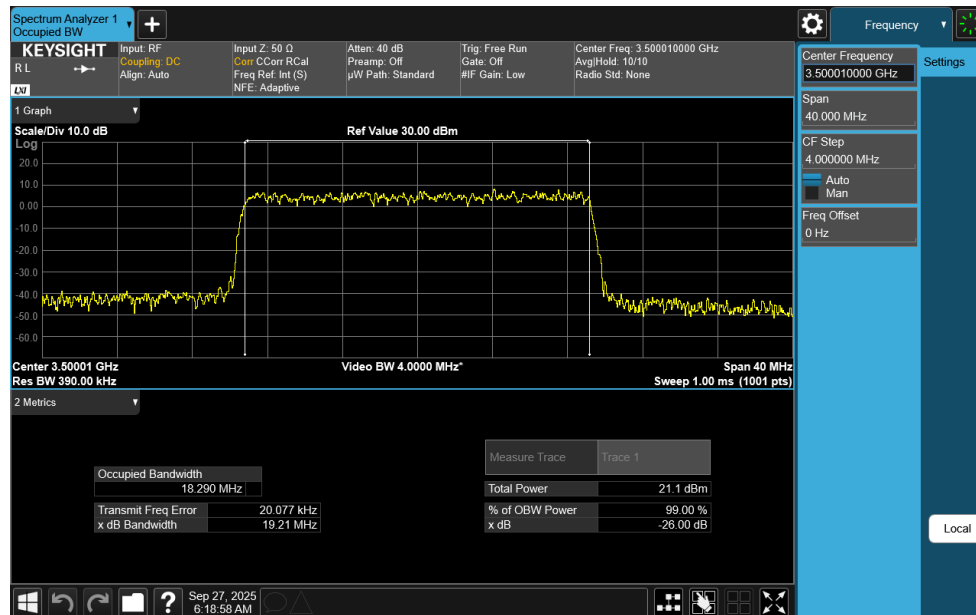


Plot 7-14. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 64-QAM - Full RB)

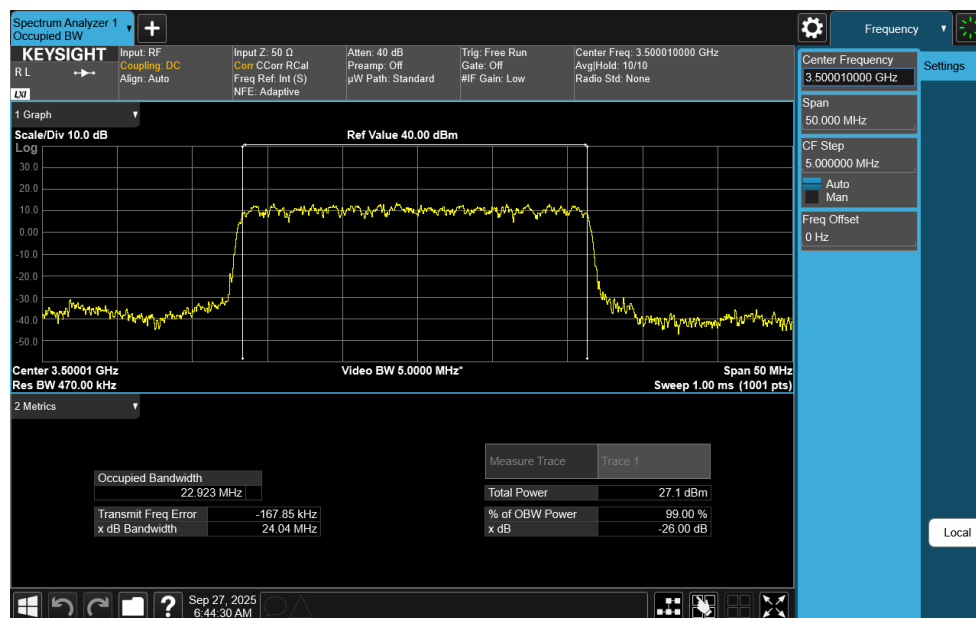
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 20MHz CP-OFDM 256-QAM - Full RB)

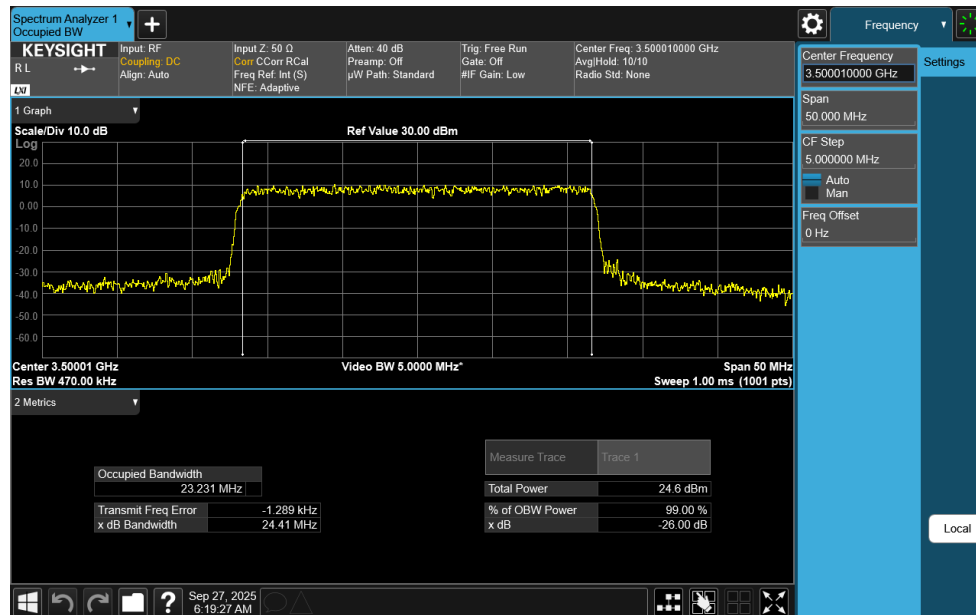


Plot 7-16. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

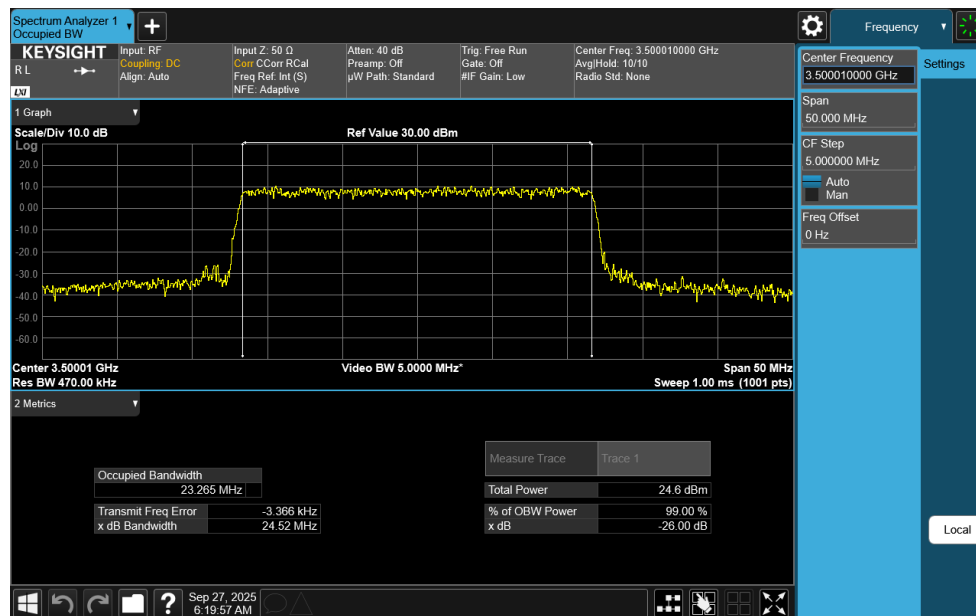
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-17. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM QPSK - Full RB)

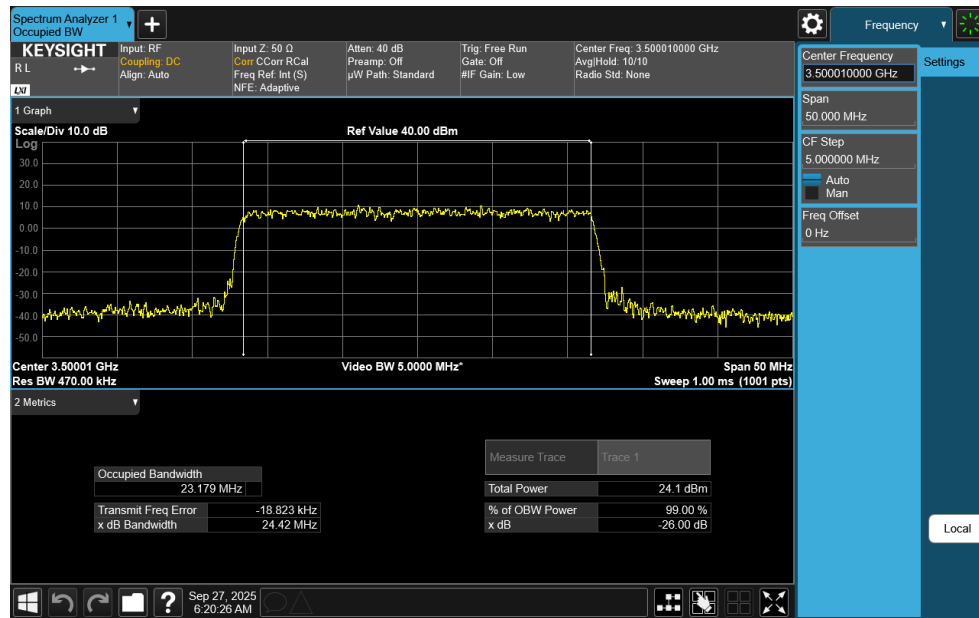


Plot 7-18. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 16-QAM - Full RB)

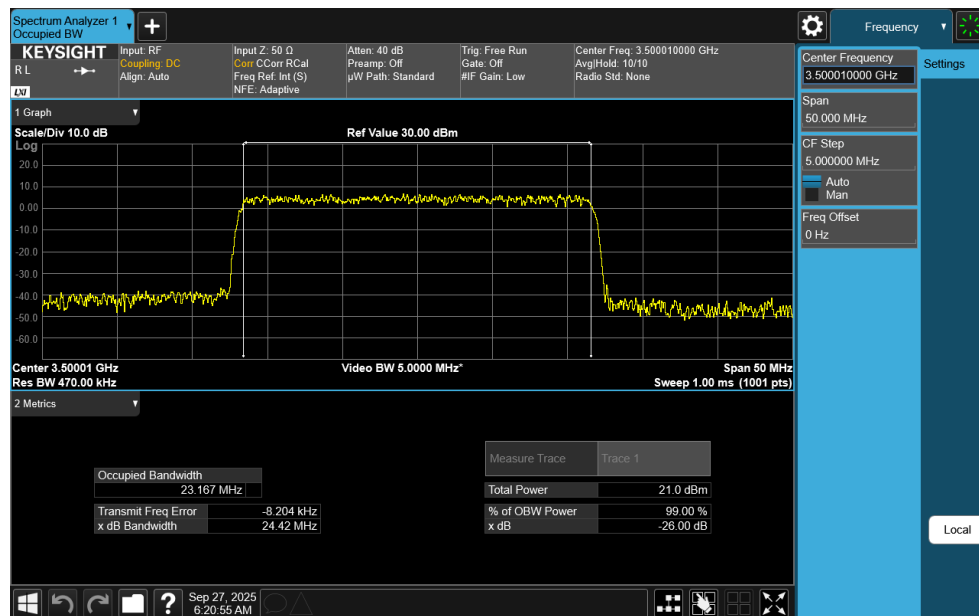
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 64-QAM - Full RB)

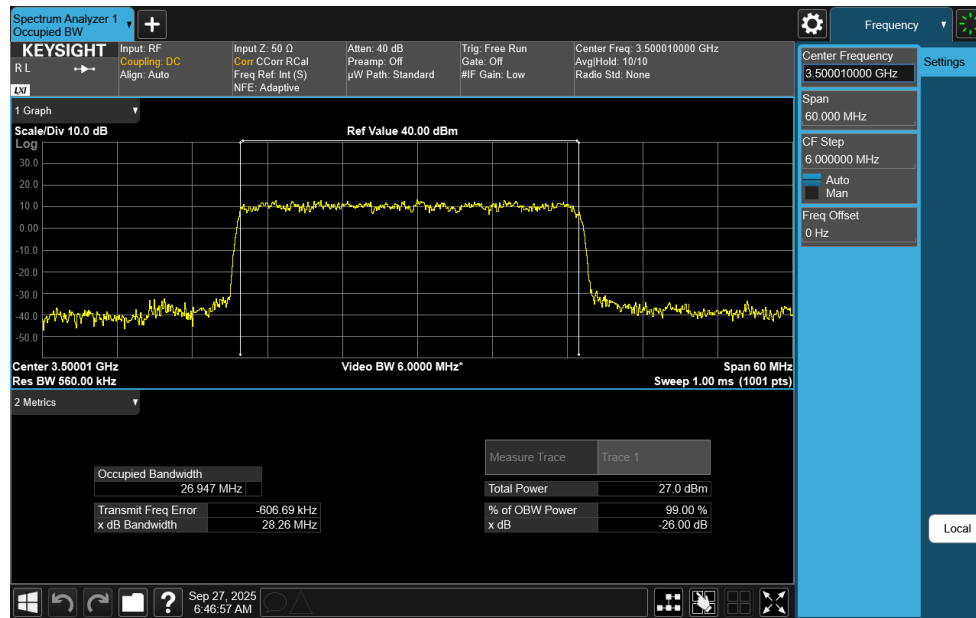


Plot 7-20. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 25MHz CP-OFDM 256-QAM - Full RB)

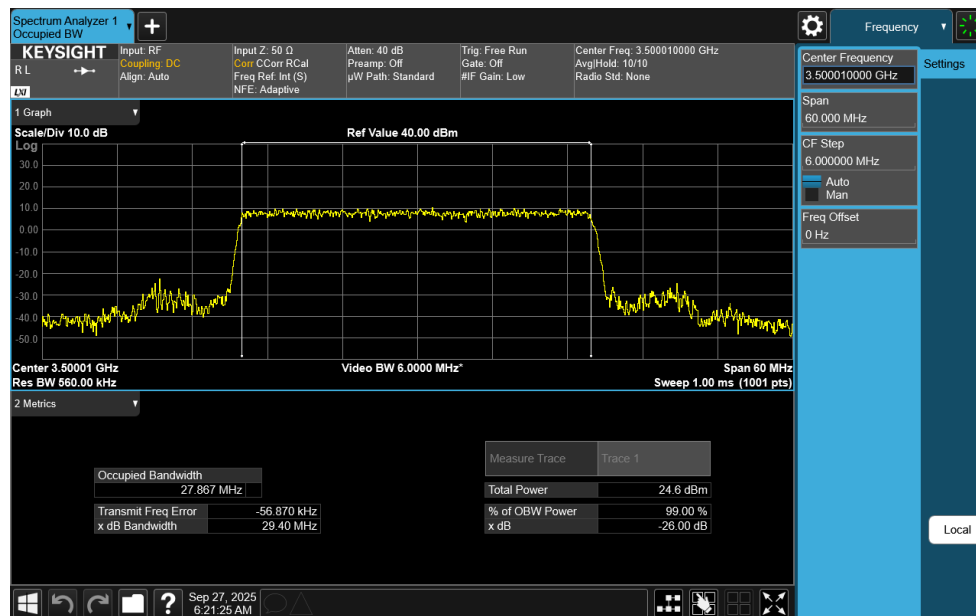
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Plot 7-21. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

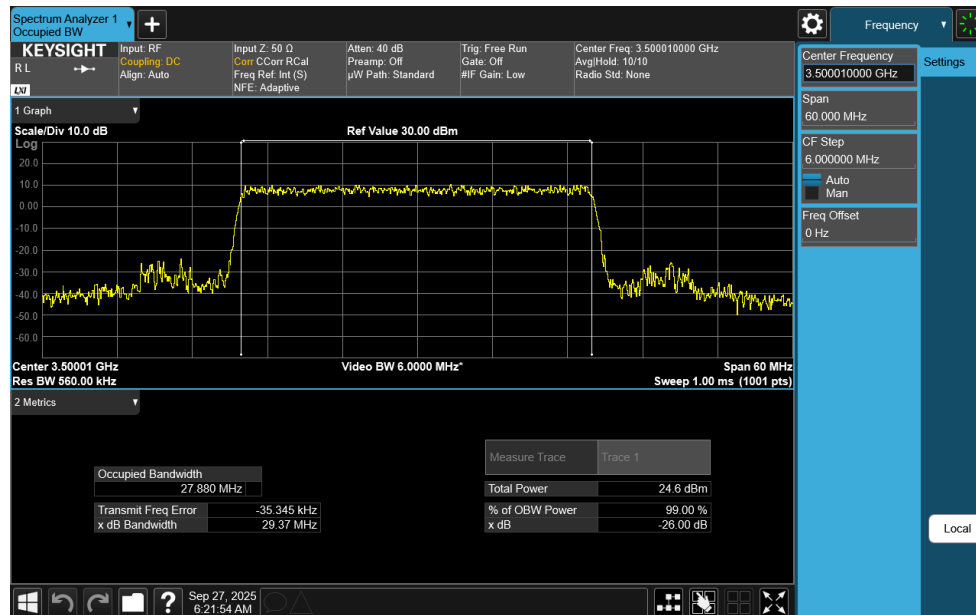


Plot 7-22. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM QPSK - Full RB)

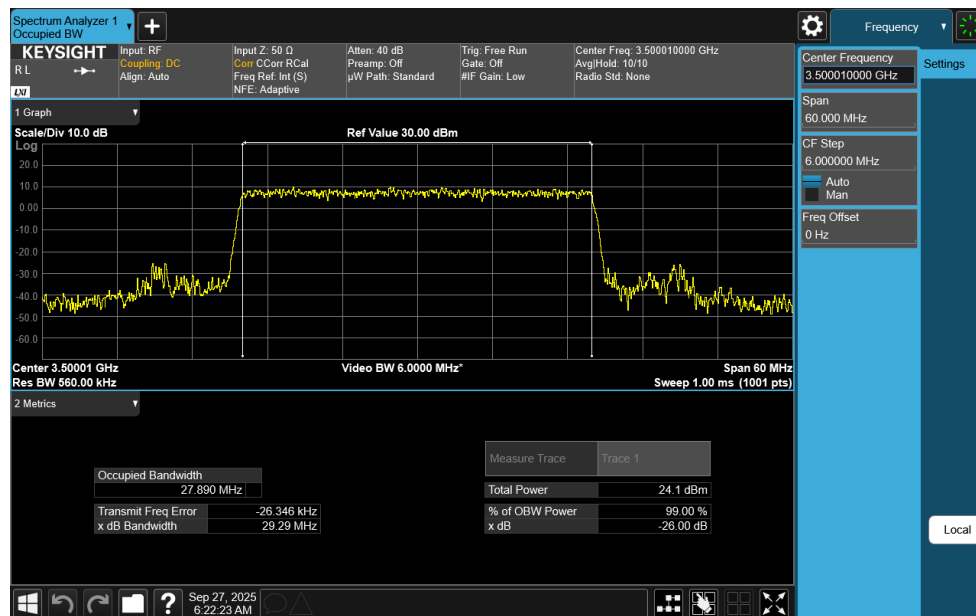
FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-23. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 16-QAM - Full RB)

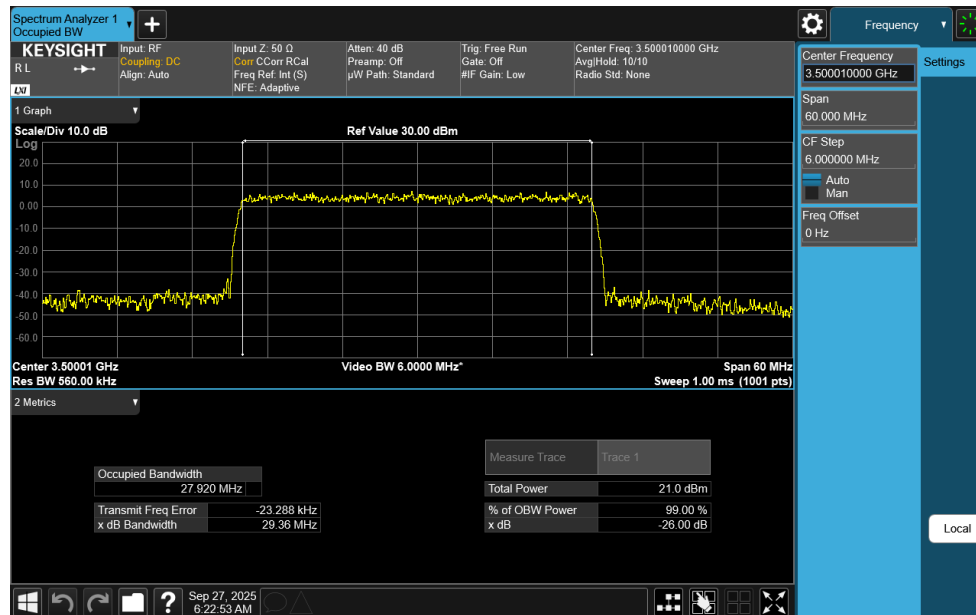


Plot 7-24. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 64-QAM - Full RB)

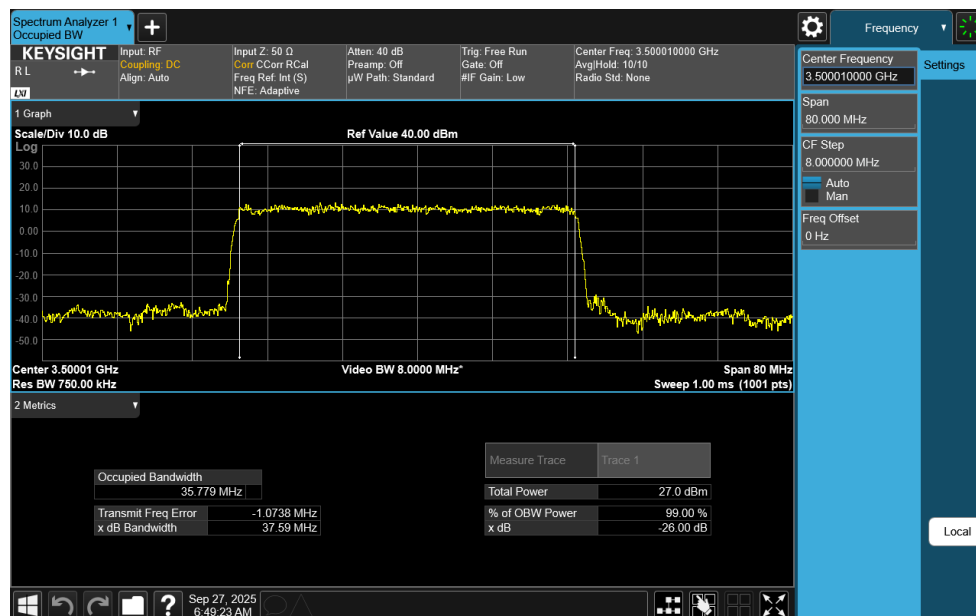
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-25. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 30MHz CP-OFDM 256-QAM - Full RB)

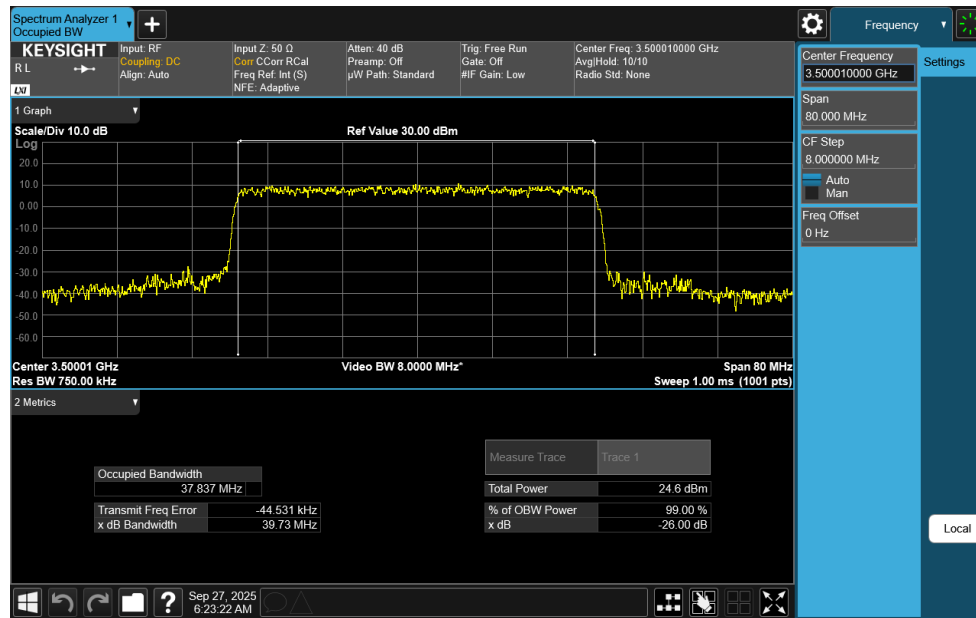


Plot 7-26. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

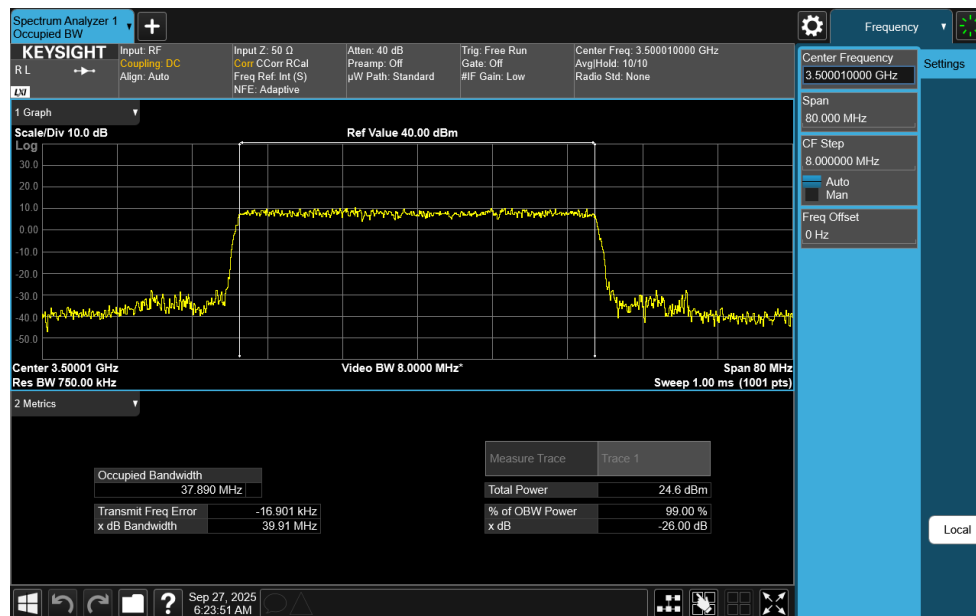
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-27. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM QPSK - Full RB)

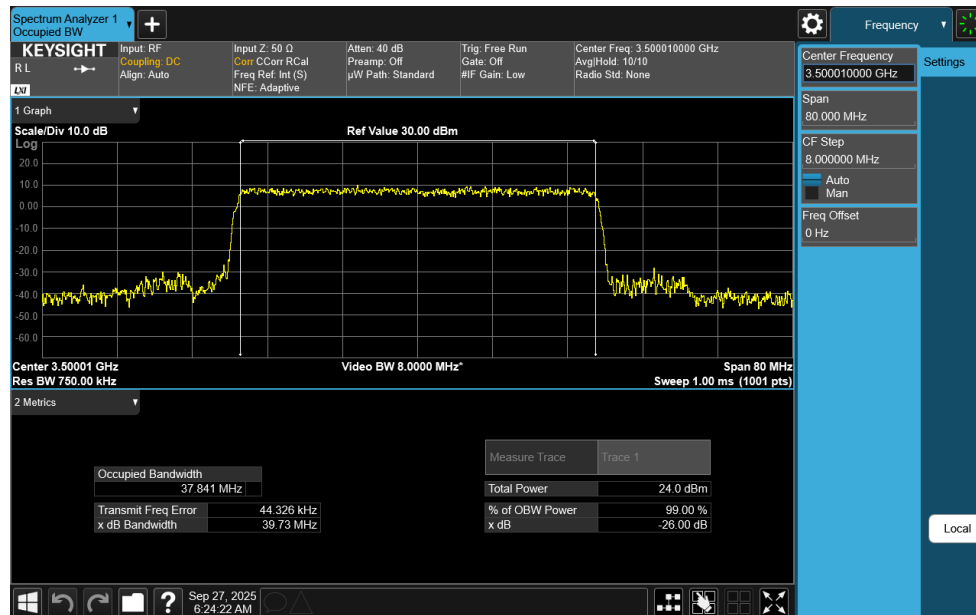


Plot 7-28. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 16-QAM - Full RB)

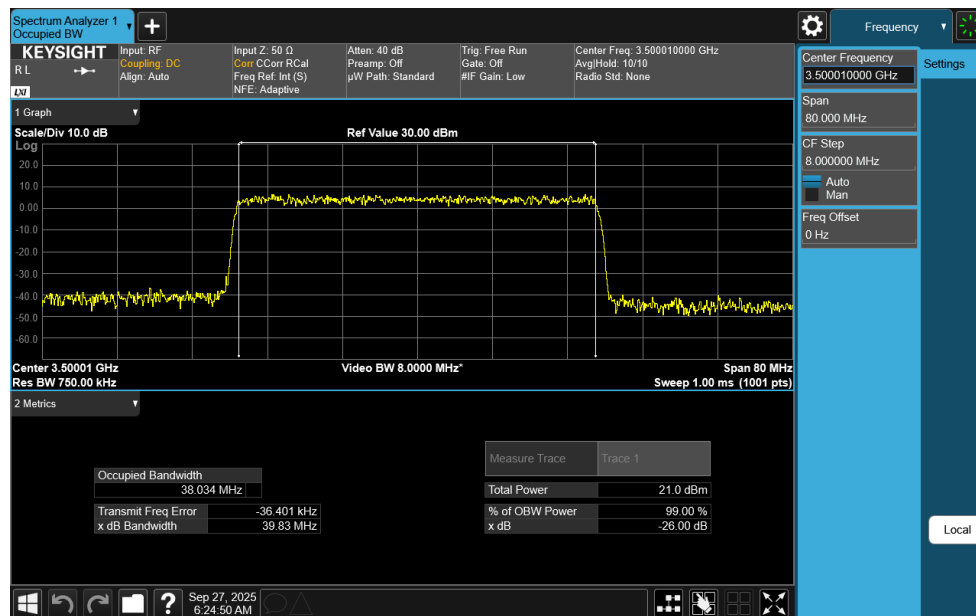
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-29. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 64-QAM - Full RB)

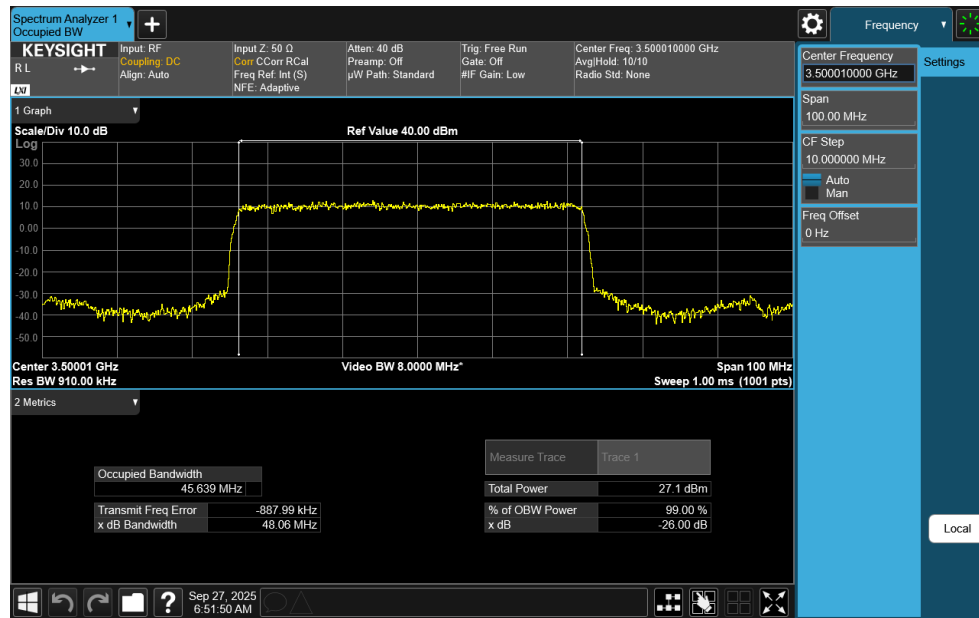


Plot 7-30. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 40MHz CP-OFDM 256-QAM - Full RB)

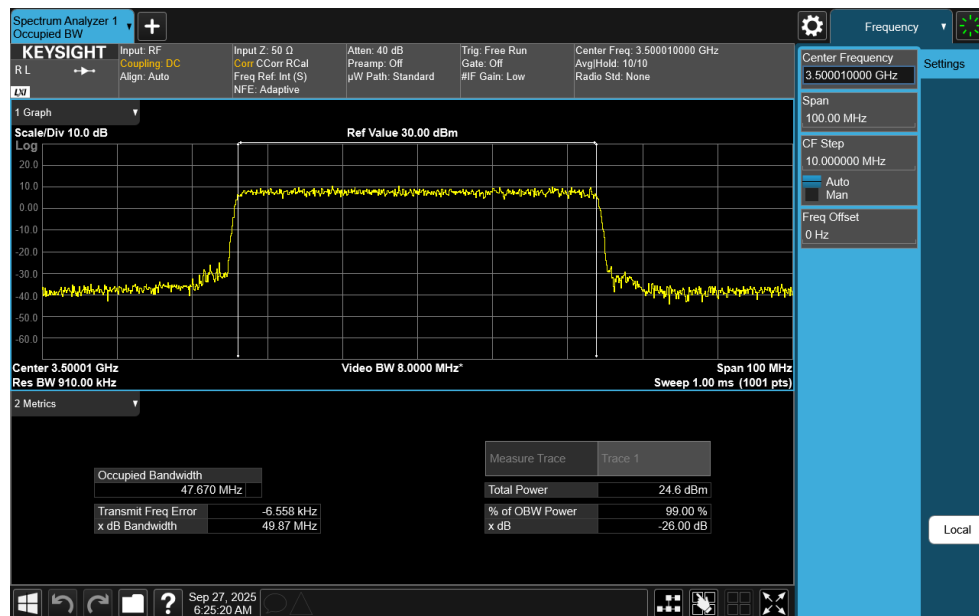
FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-11-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device	Page 32 of 258

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Plot 7-31. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

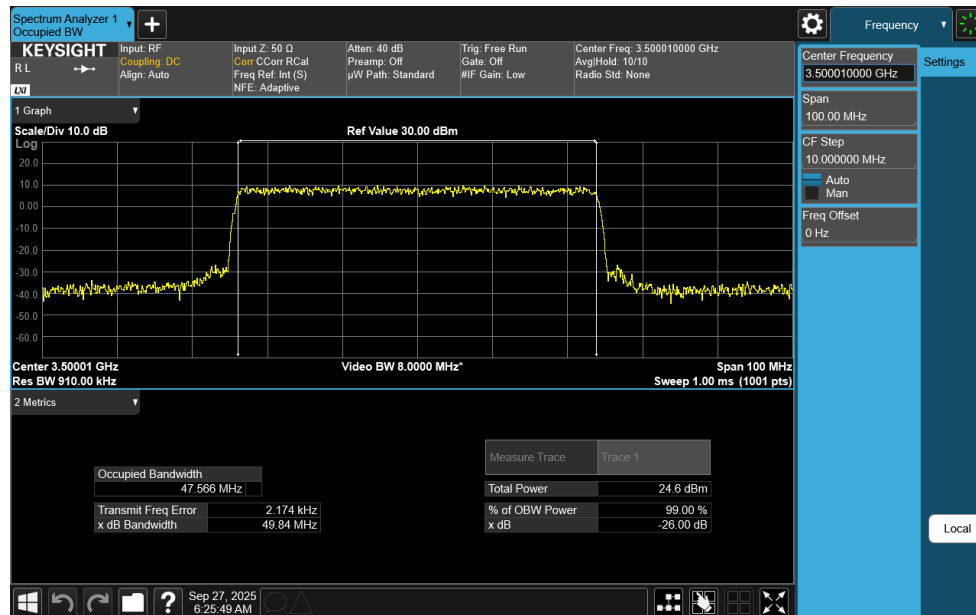


Plot 7-32. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM QPSK - Full RB)

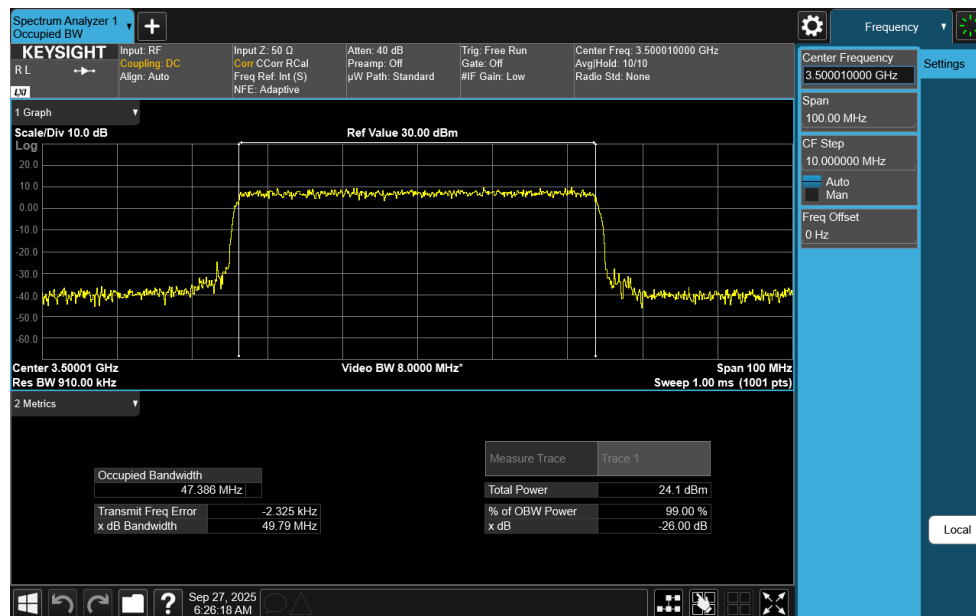
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-11-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device
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Plot 7-33. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 16-QAM - Full RB)

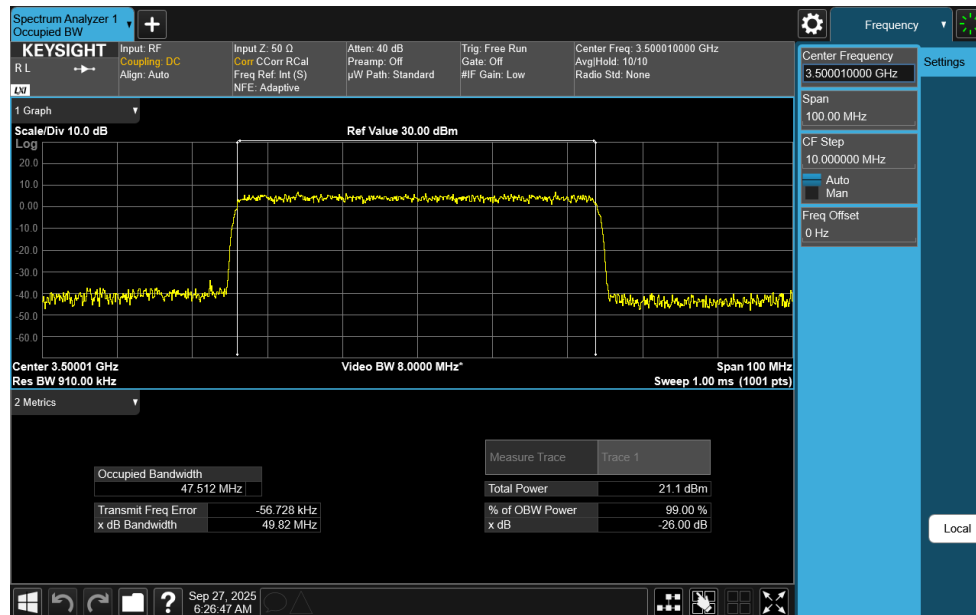


Plot 7-34. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 64-QAM - Full RB)

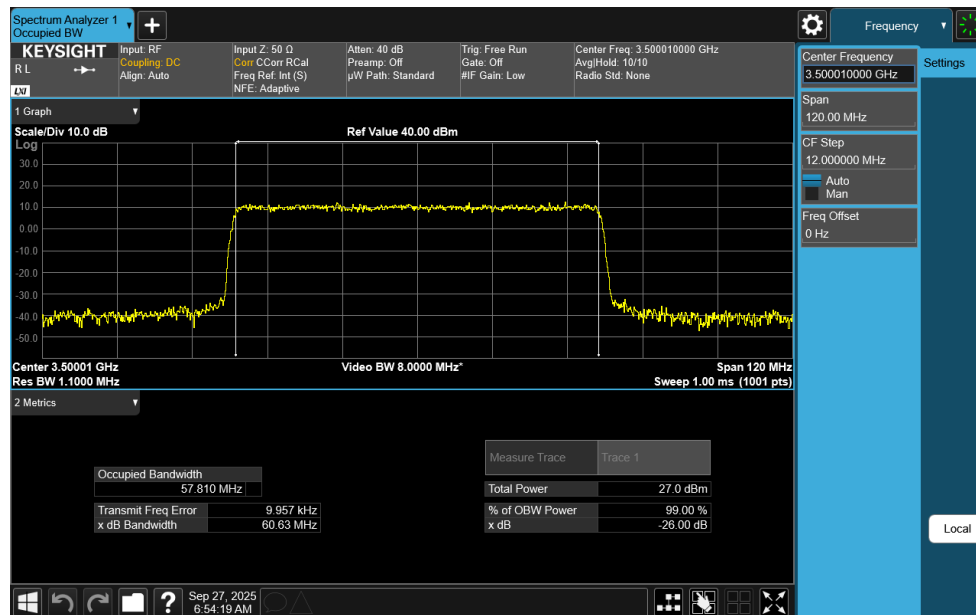
FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-35. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 50MHz CP-OFDM 256-QAM - Full RB)

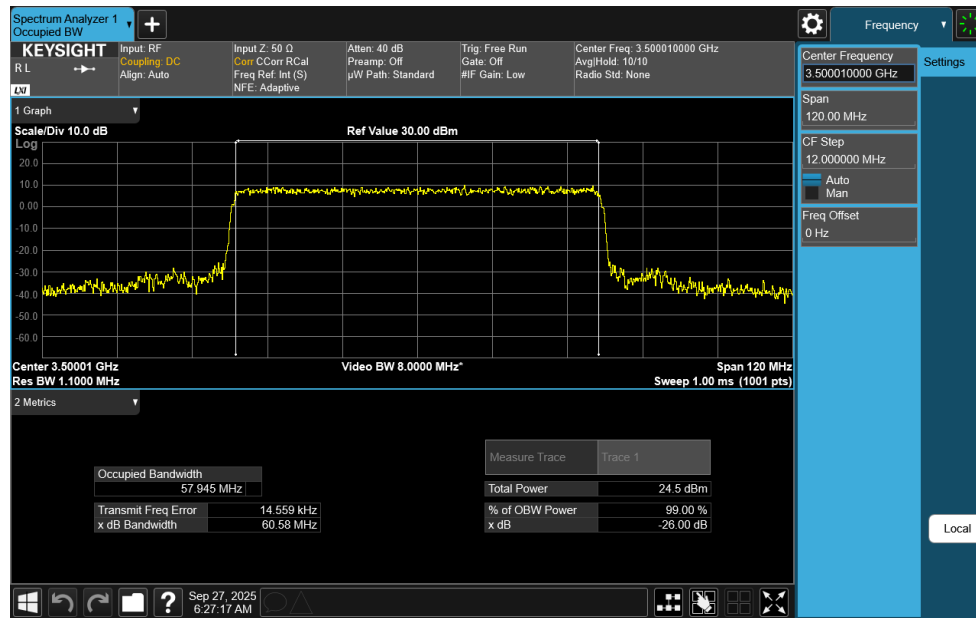


Plot 7-36. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

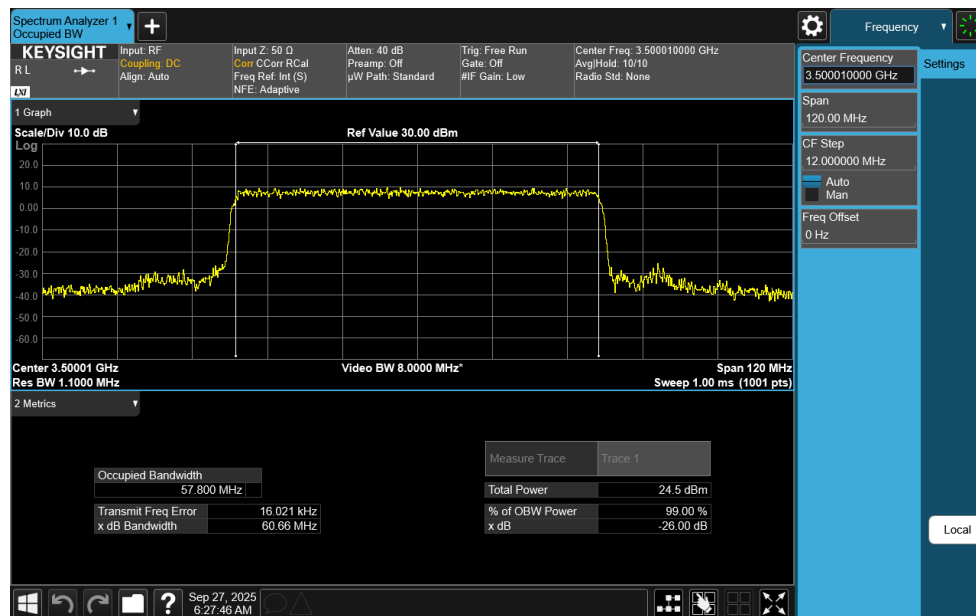
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-37. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM QPSK - Full RB)

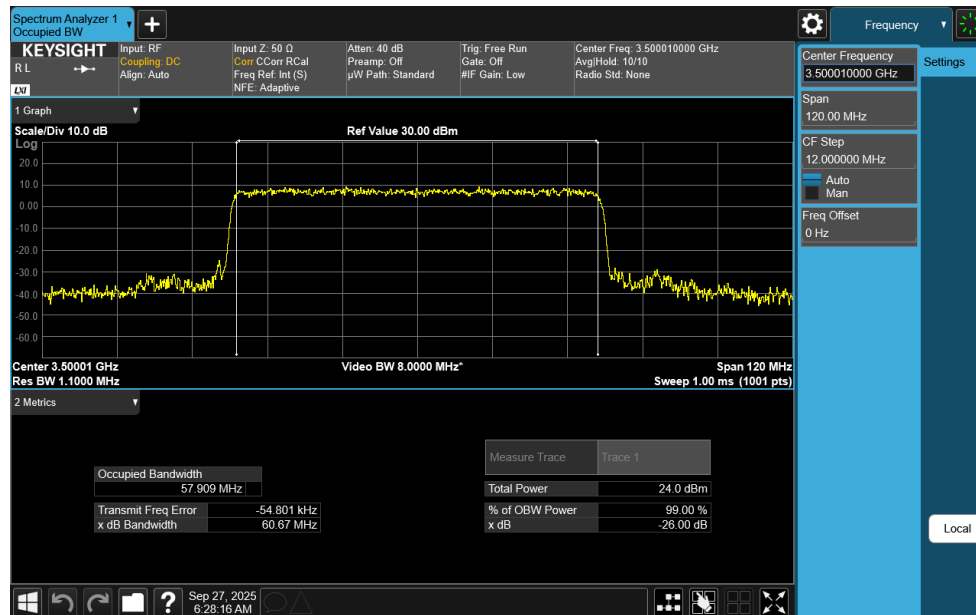


Plot 7-38. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 16-QAM - Full RB)

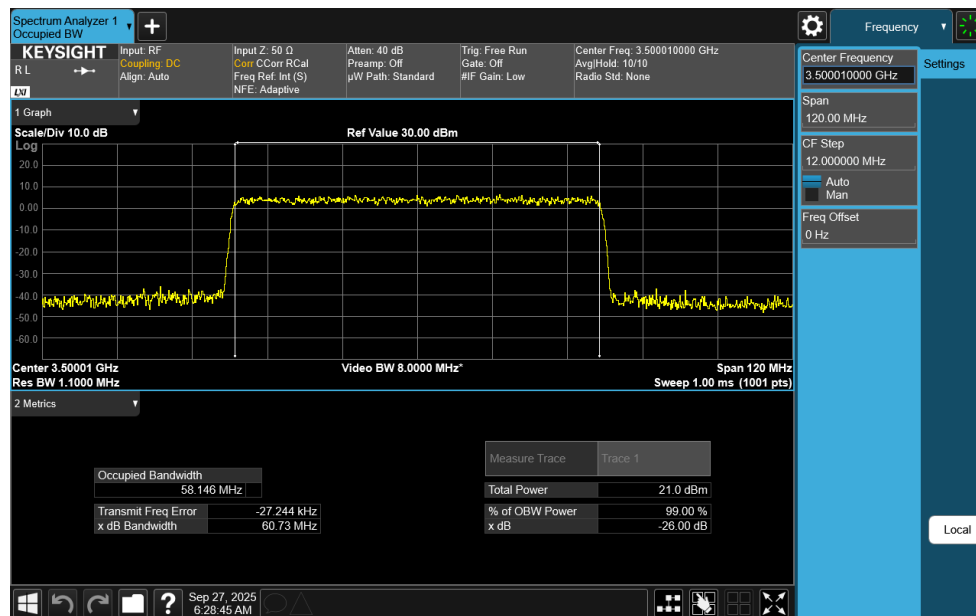
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-39. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 64-QAM - Full RB)

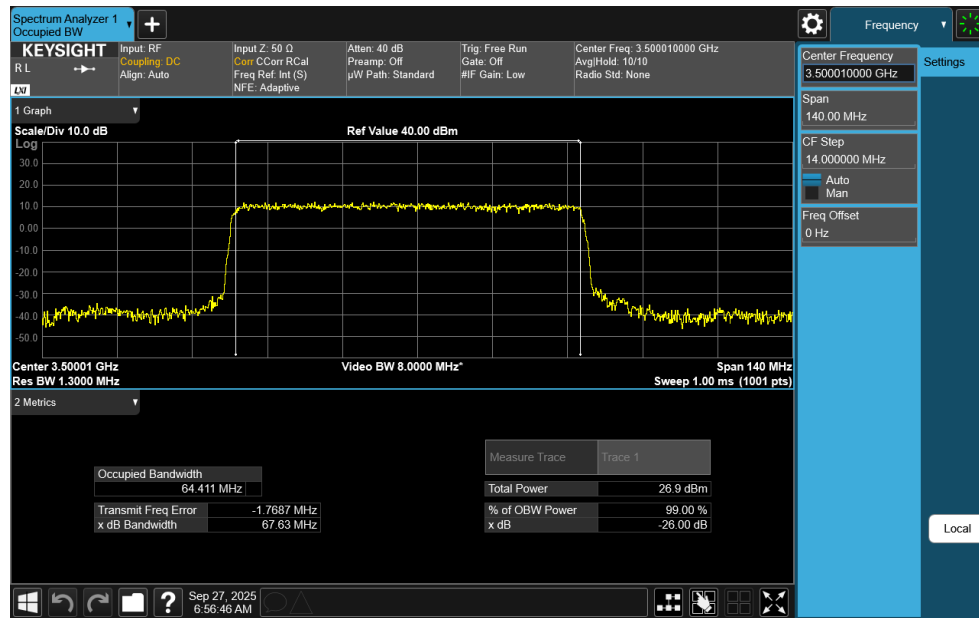


Plot 7-40. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 60MHz CP-OFDM 256-QAM - Full RB)

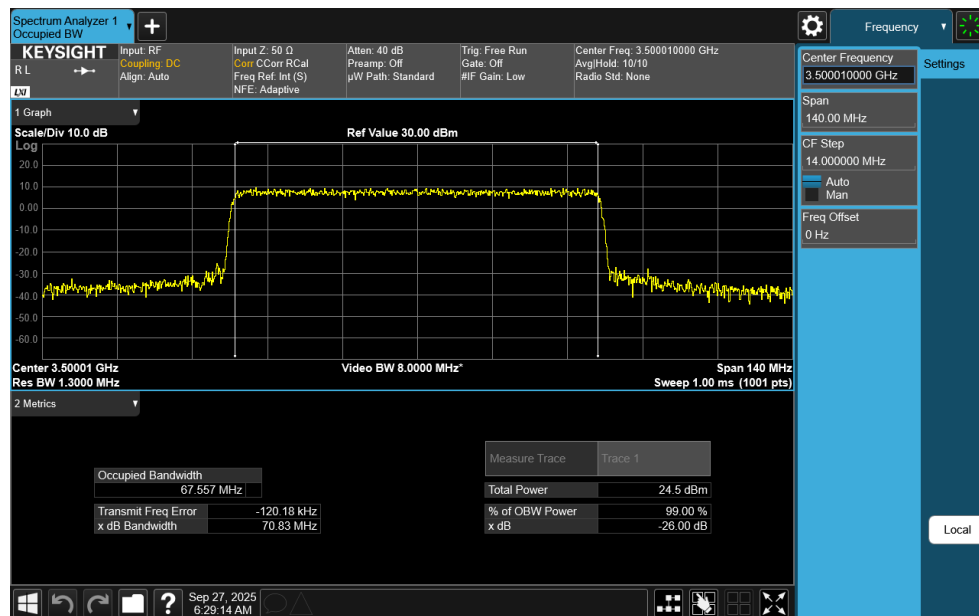
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-41. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

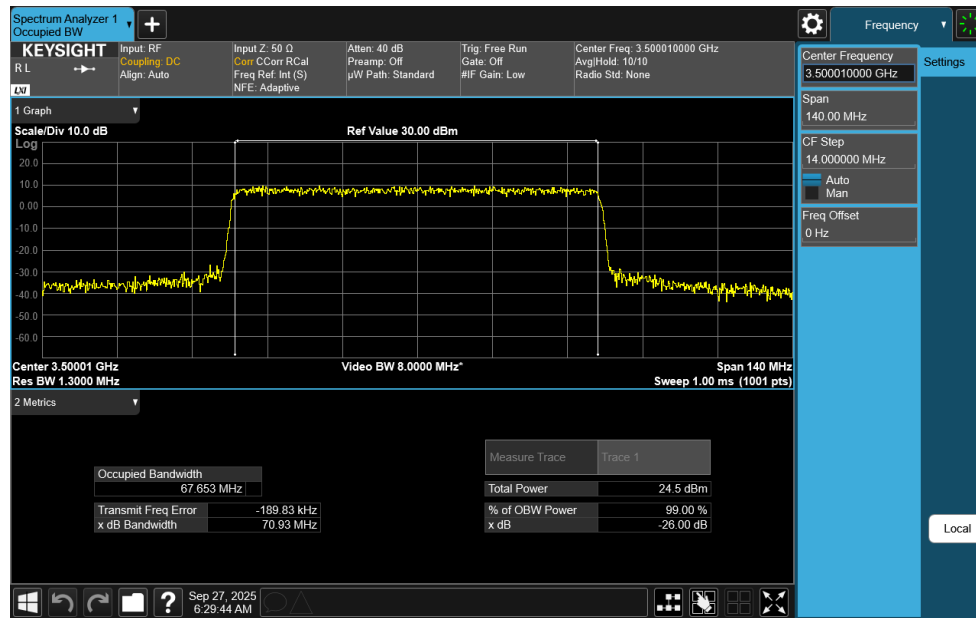


Plot 7-42. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM QPSK - Full RB)

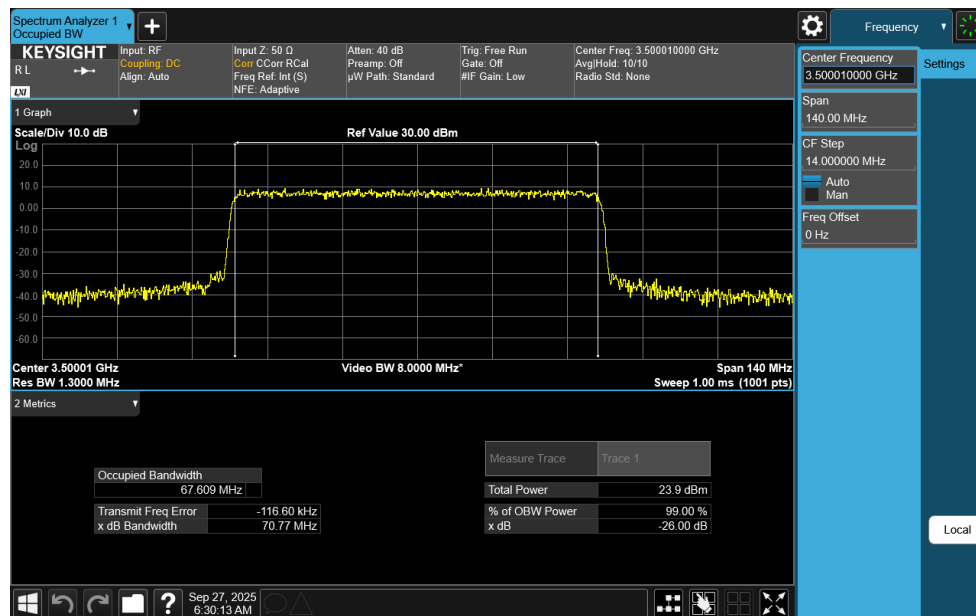
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-43. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 16-QAM - Full RB)

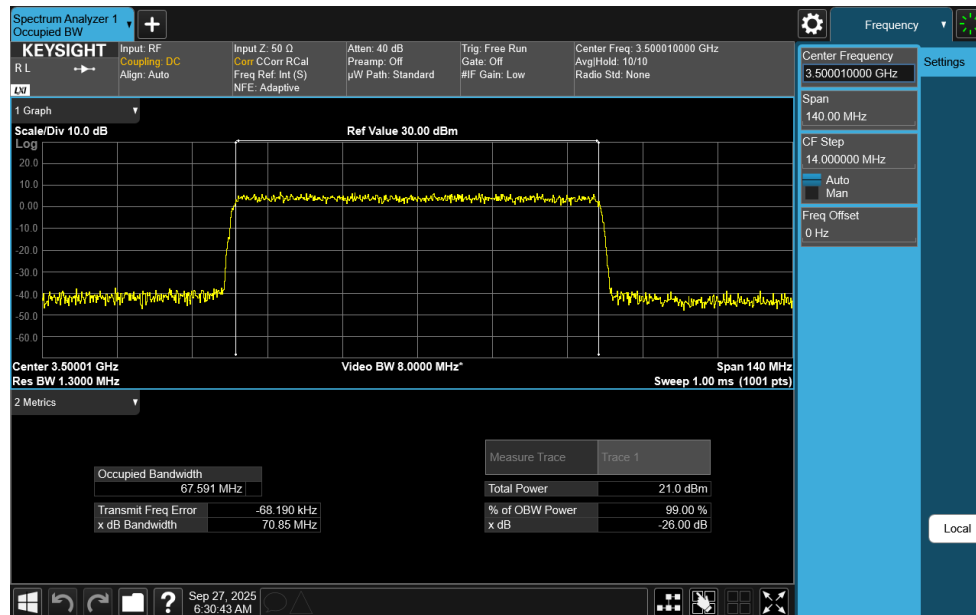


Plot 7-44. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 64-QAM - Full RB)

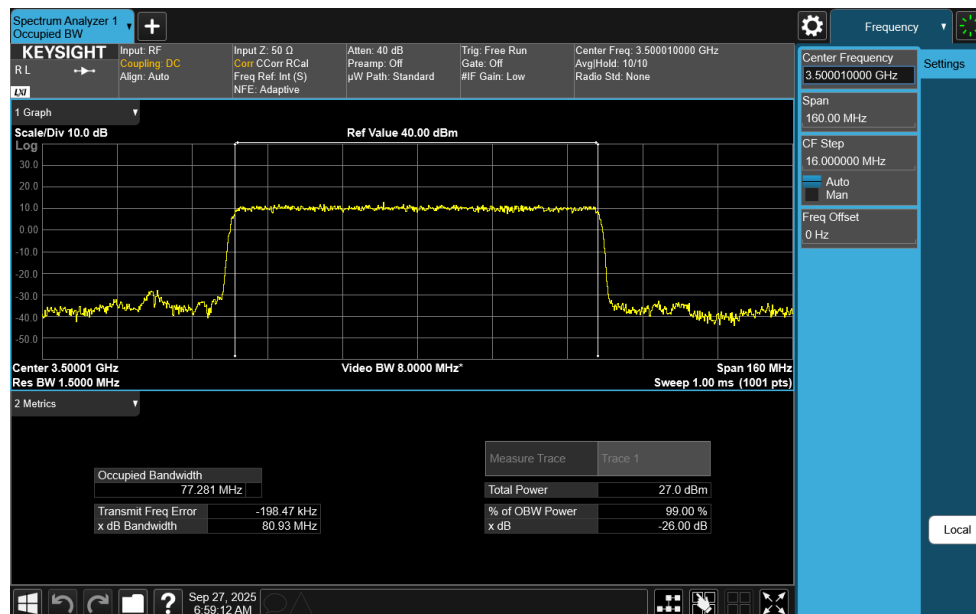
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-45. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 70MHz CP-OFDM 256-QAM - Full RB)

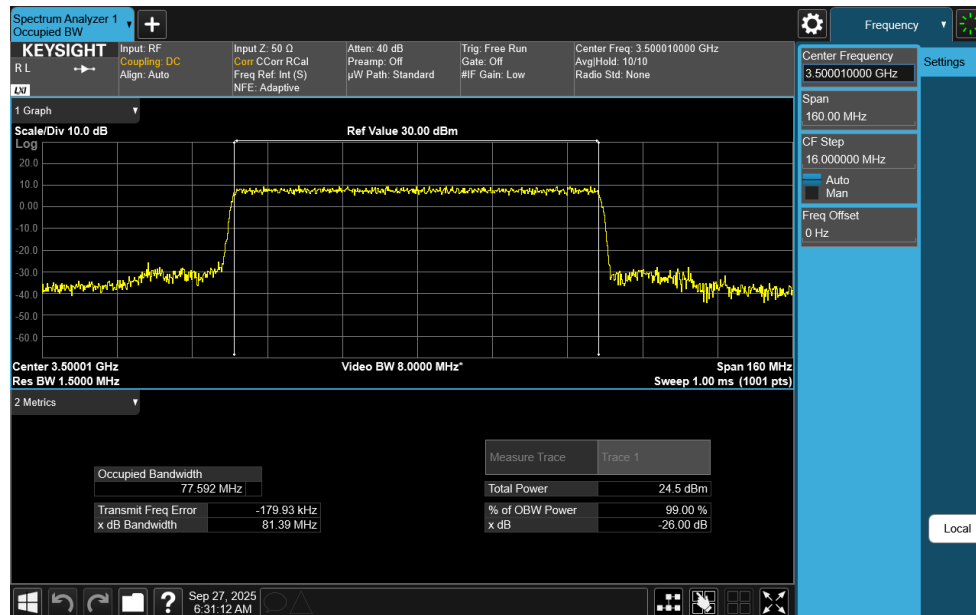


Plot 7-46. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

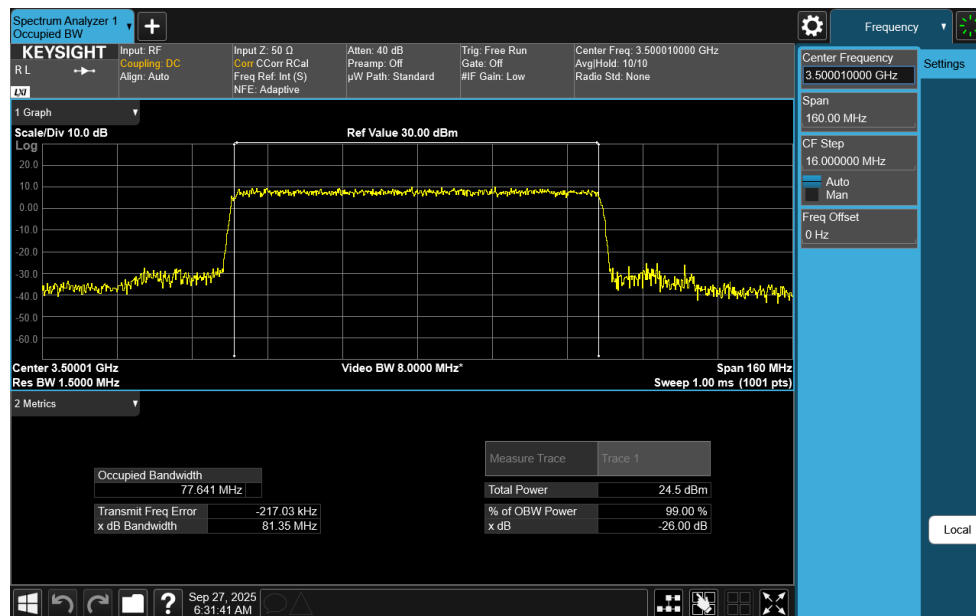
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-11-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	Page 40 of 258
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Plot 7-47. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM QPSK - Full RB)

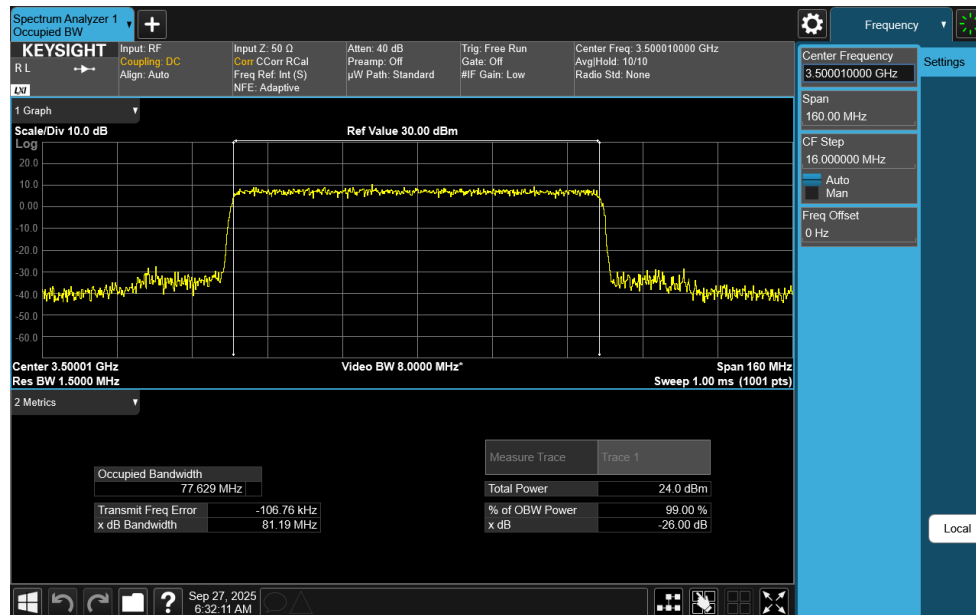


Plot 7-48. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 16-QAM - Full RB)

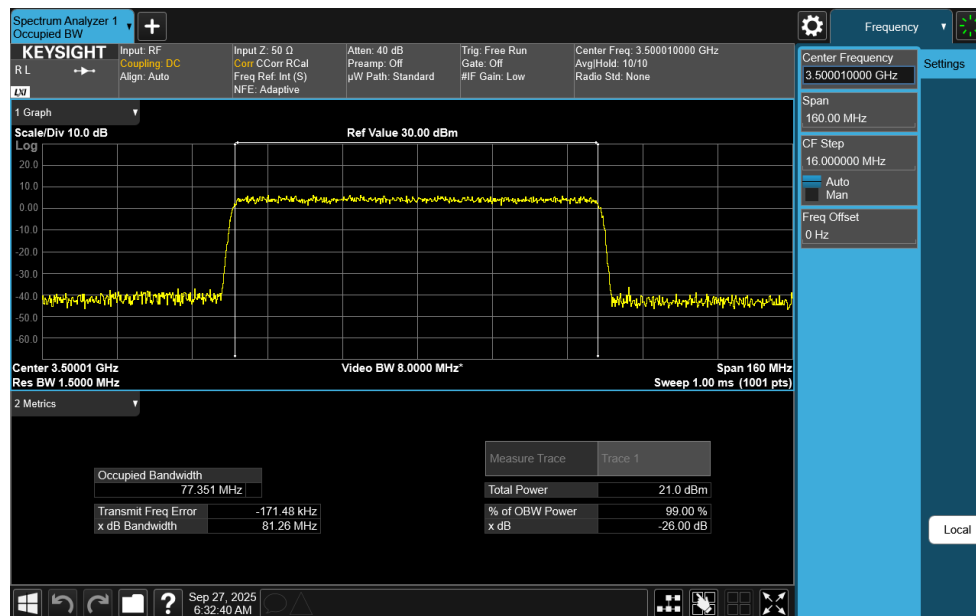
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-49. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 64-QAM - Full RB)

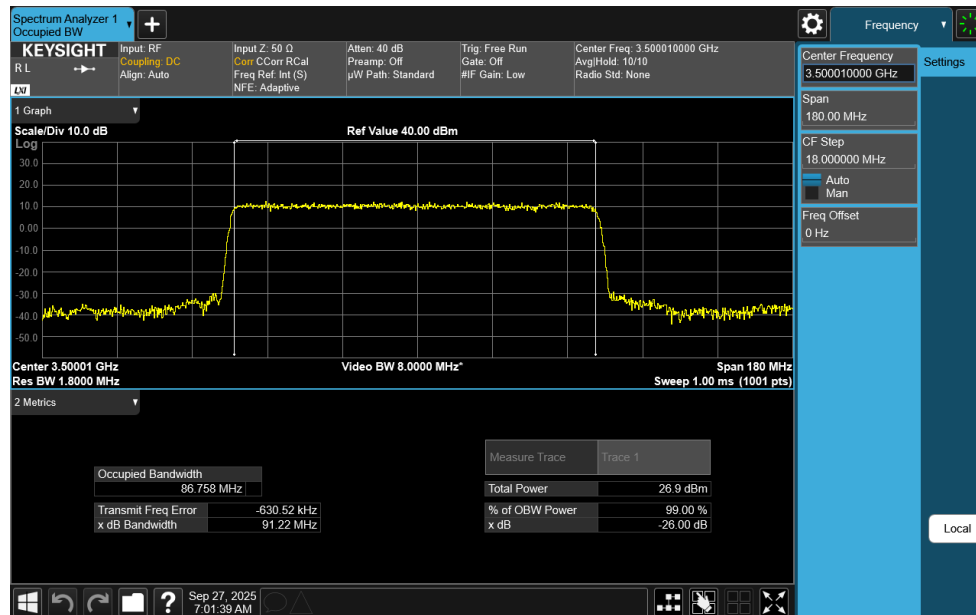


Plot 7-50. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 80MHz CP-OFDM 256-QAM - Full RB)

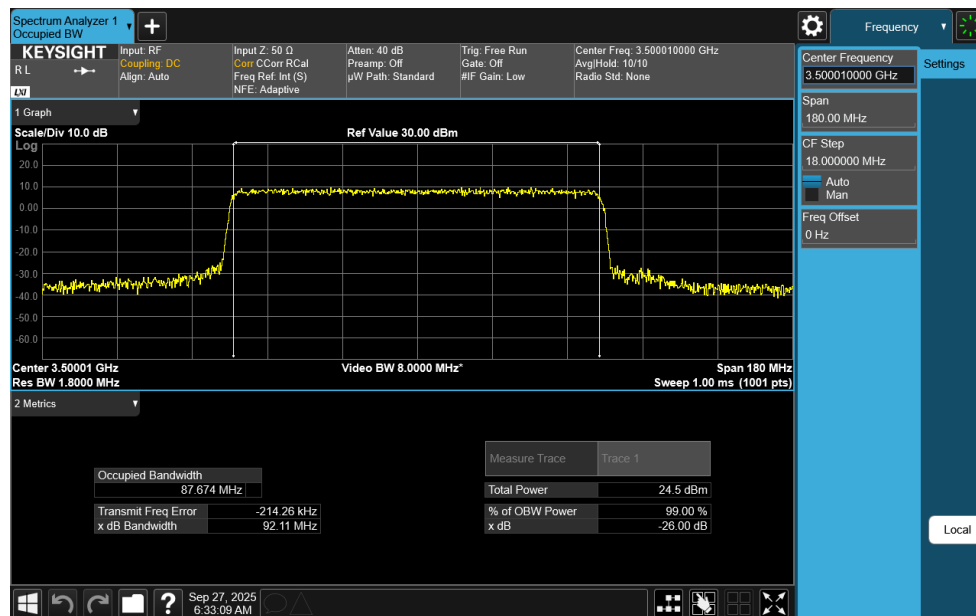
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-51. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

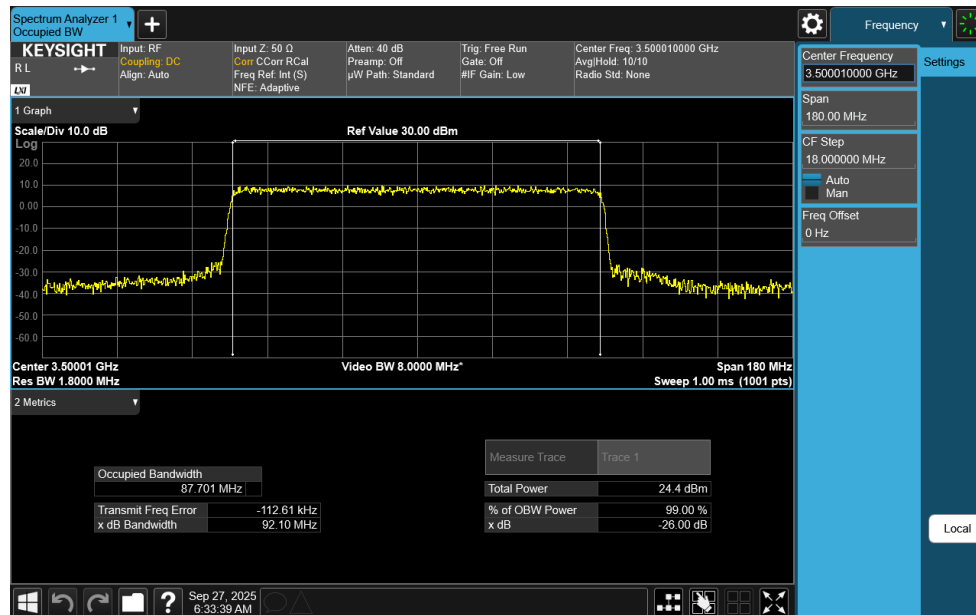


Plot 7-52. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM QPSK - Full RB)

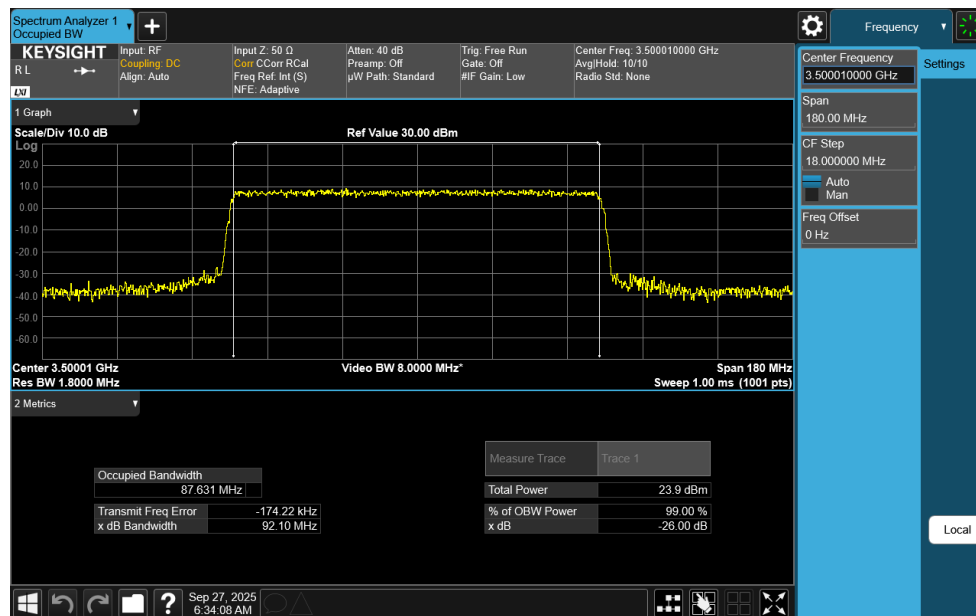
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-53. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 16-QAM - Full RB)

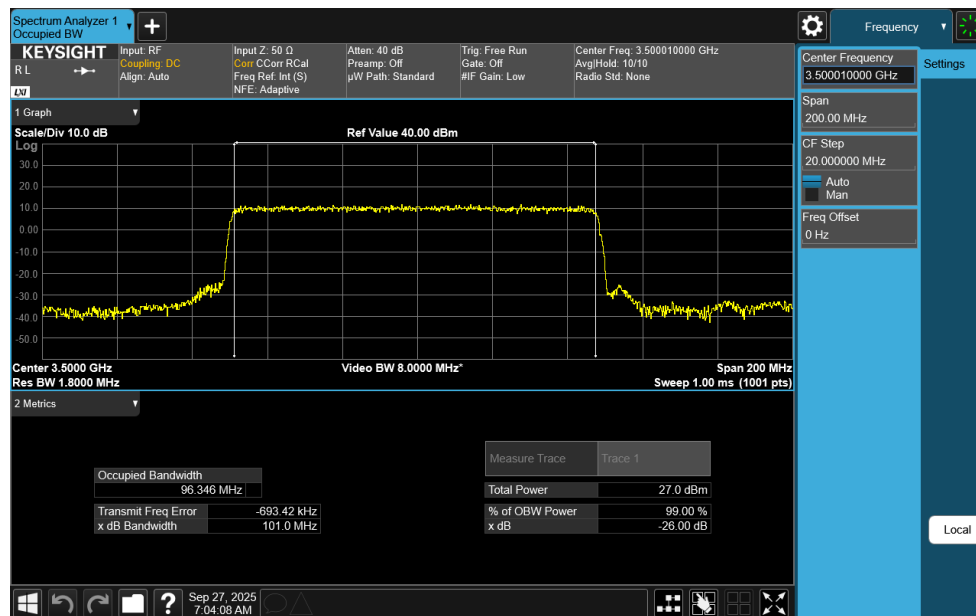
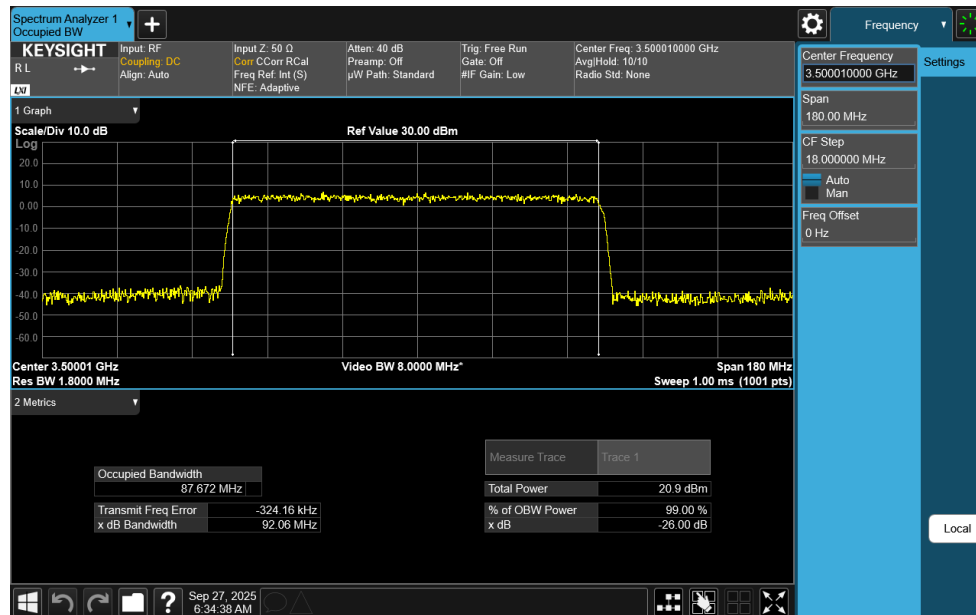


Plot 7-54. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 90MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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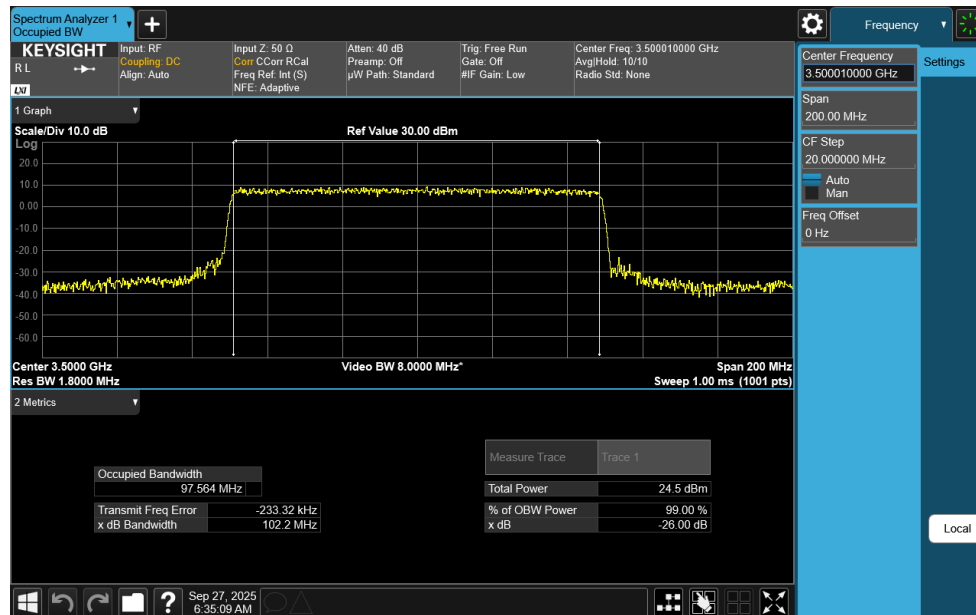
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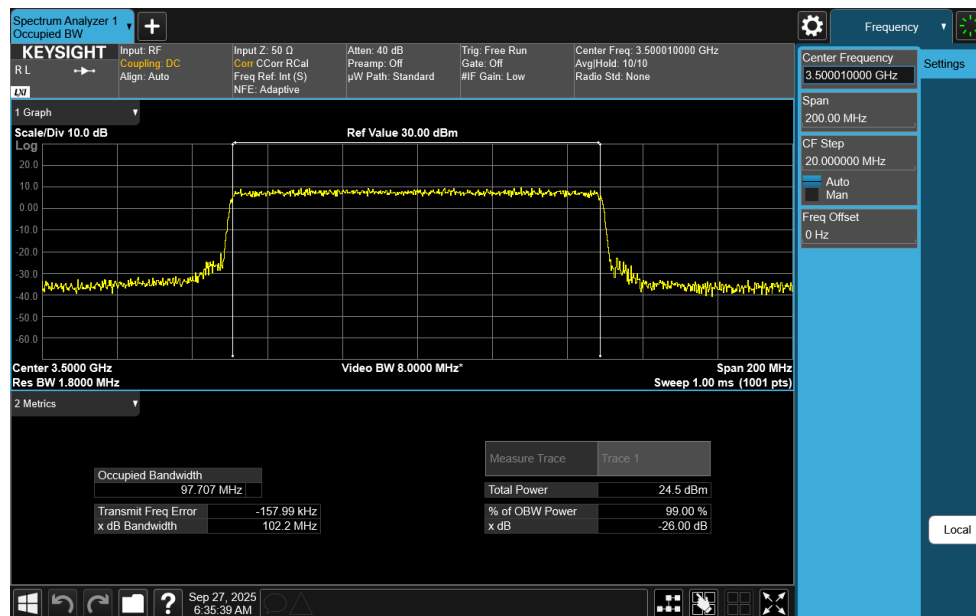
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-57. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM QPSK - Full RB)

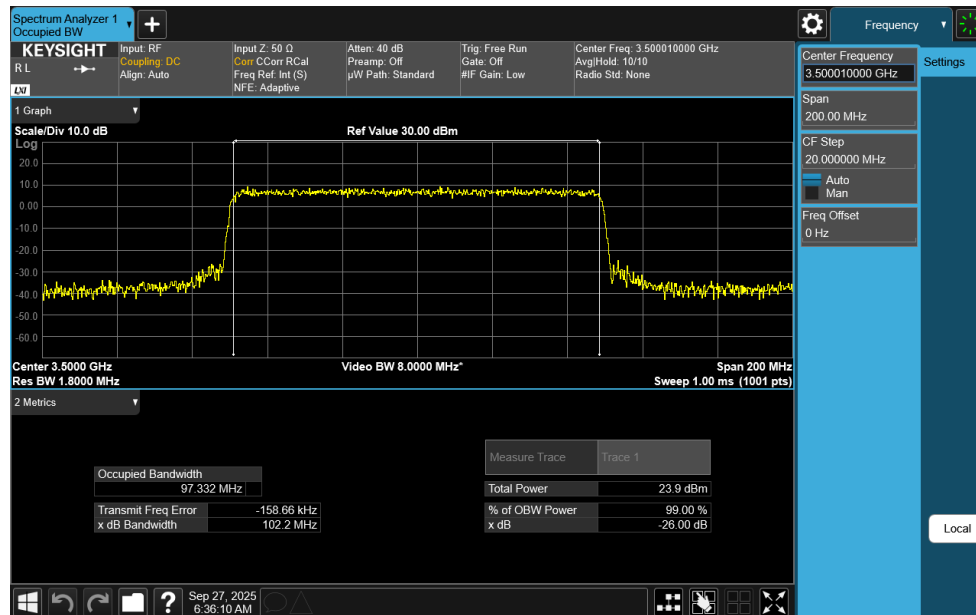


Plot 7-58. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 16-QAM - Full RB)

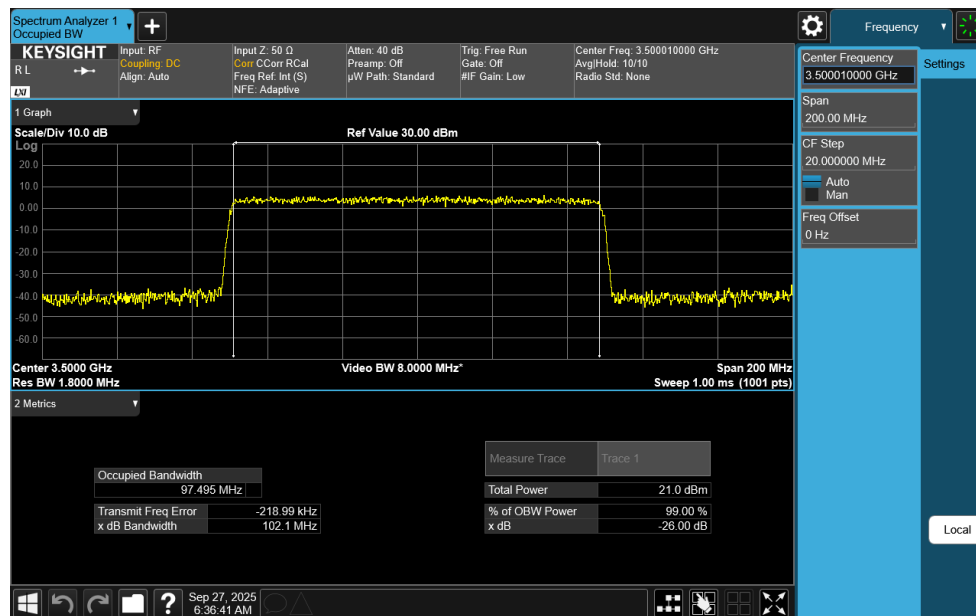
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2509100082-11-R1.BCG	Test Dates: 7/15/2025 - 11/11/2025	EUT Type: Tablet Device
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Plot 7-59. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 64-QAM - Full RB)



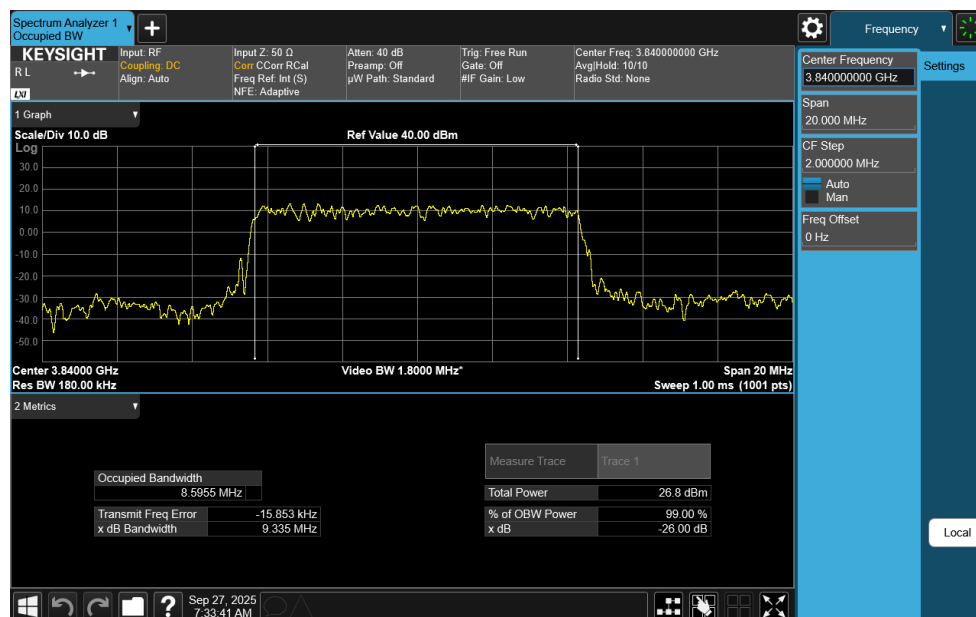
Plot 7-60. Occupied Bandwidth Plot (NR Band n77 DoD-Band - 100MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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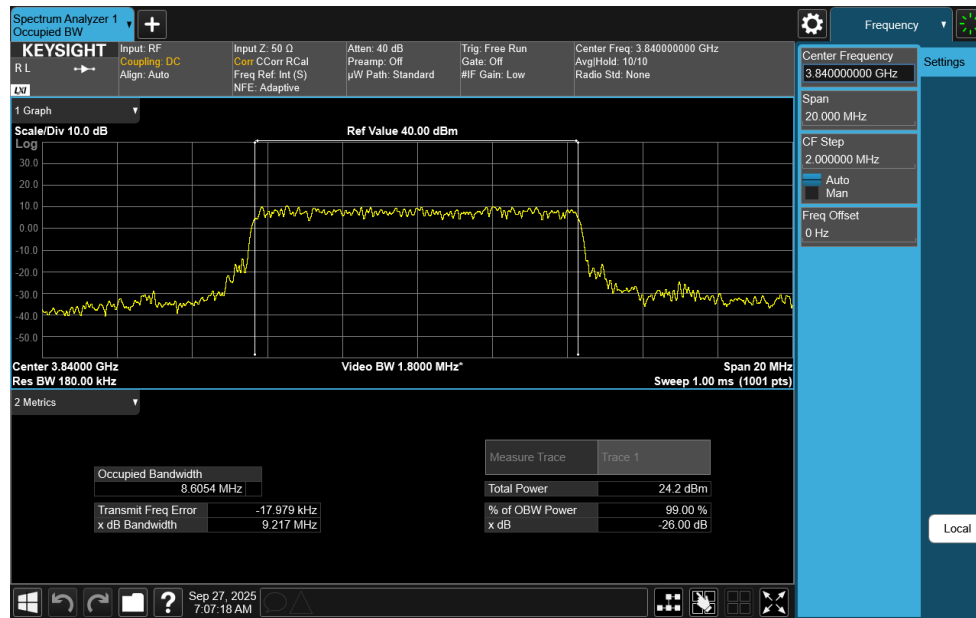
NR Band n77 C-Band



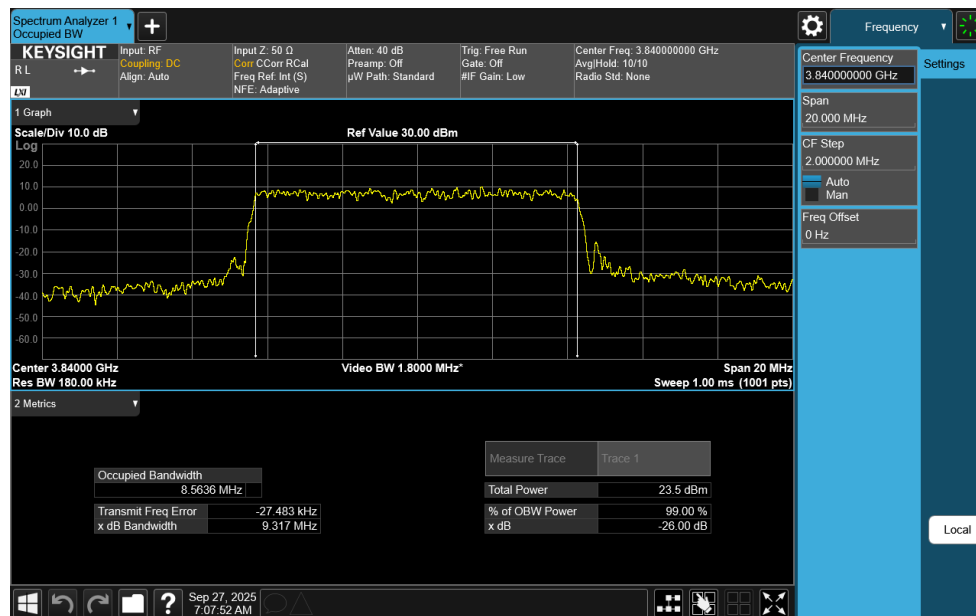
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-63. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 16-QAM - Full RB)

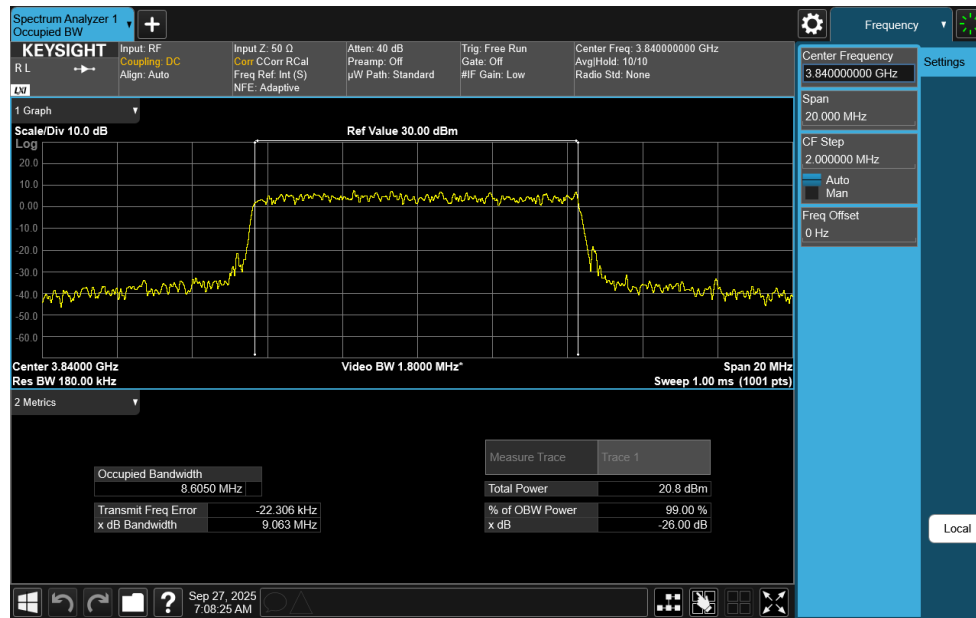


Plot 7-64. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 64-QAM - Full RB)

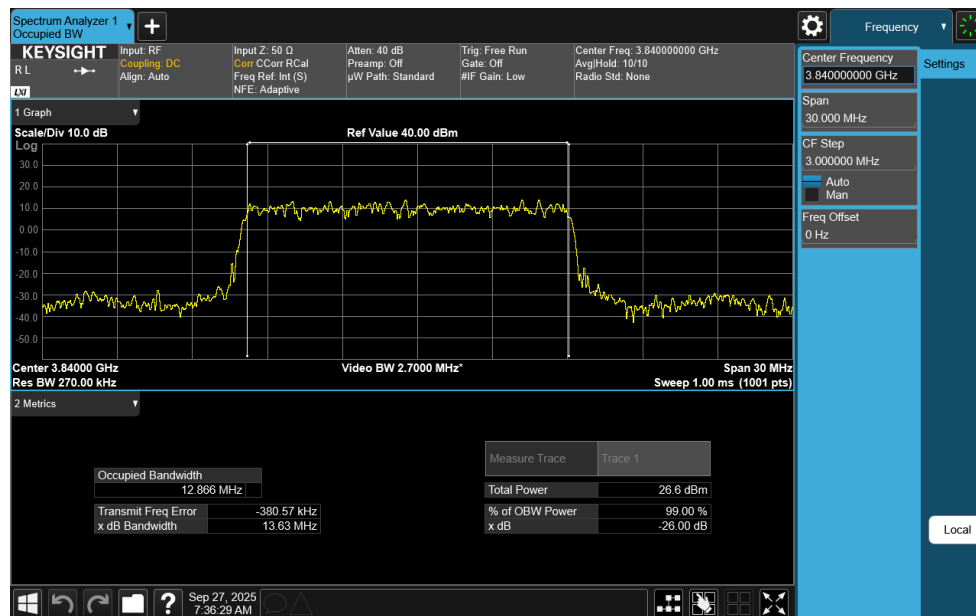
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-65. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz CP-OFDM 256-QAM - Full RB)

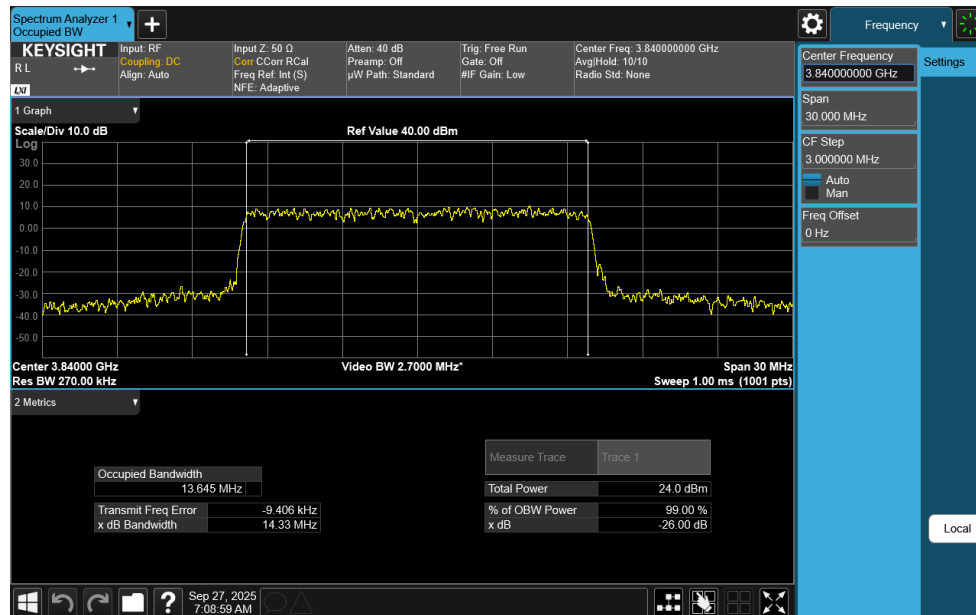


Plot 7-66. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

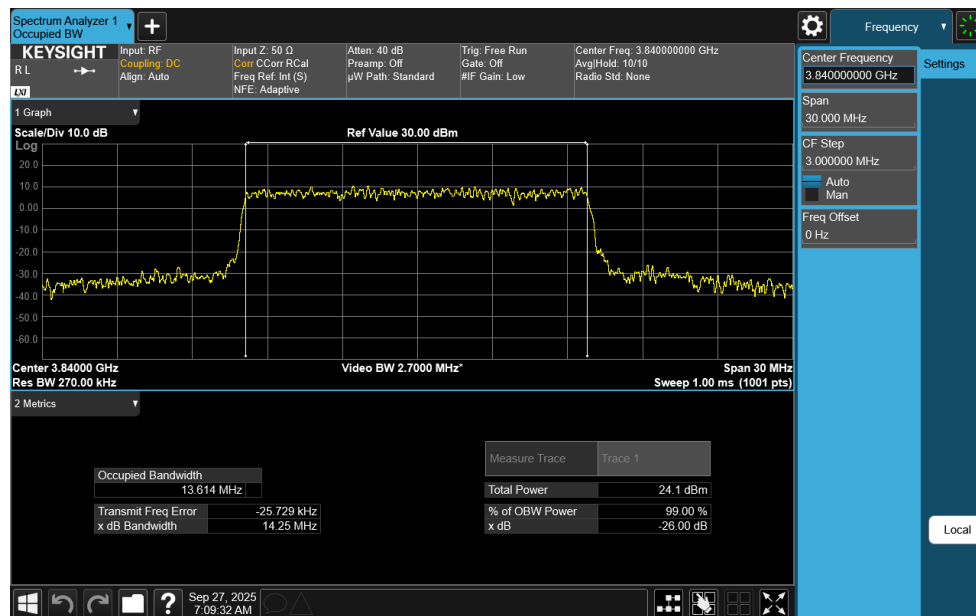
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-67. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM QPSK - Full RB)

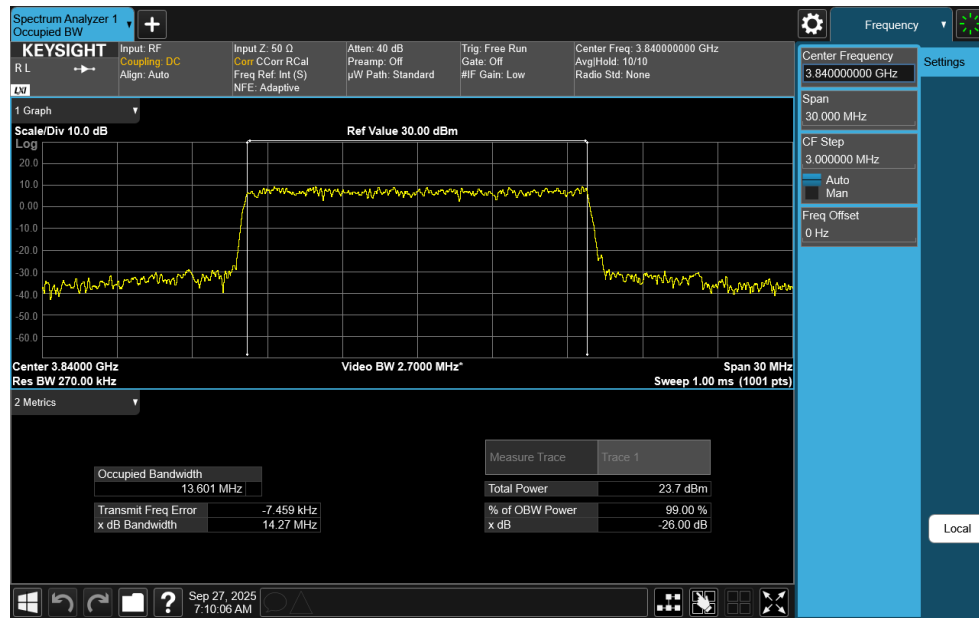


Plot 7-68. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 16-QAM - Full RB)

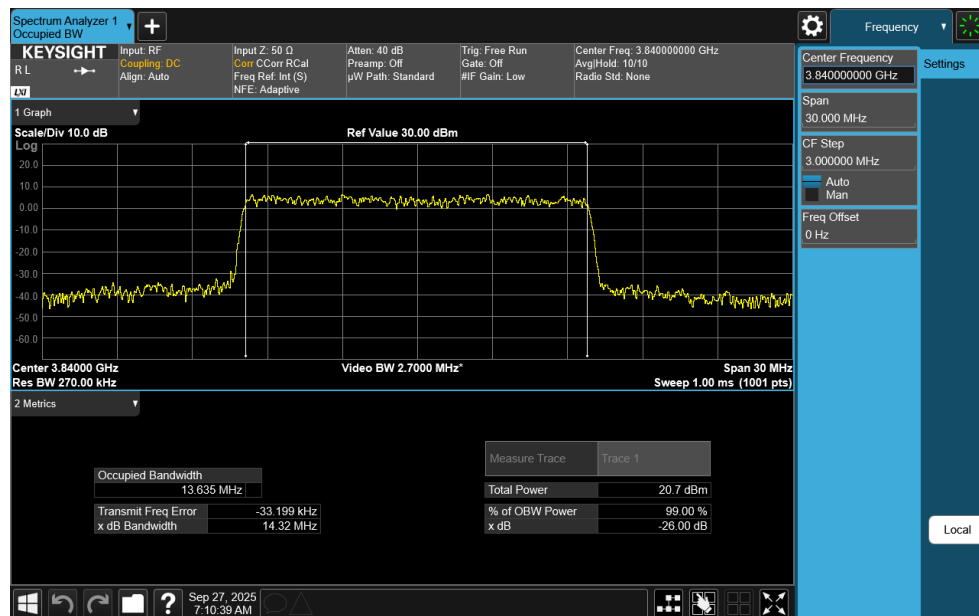
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-69. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 64-QAM - Full RB)

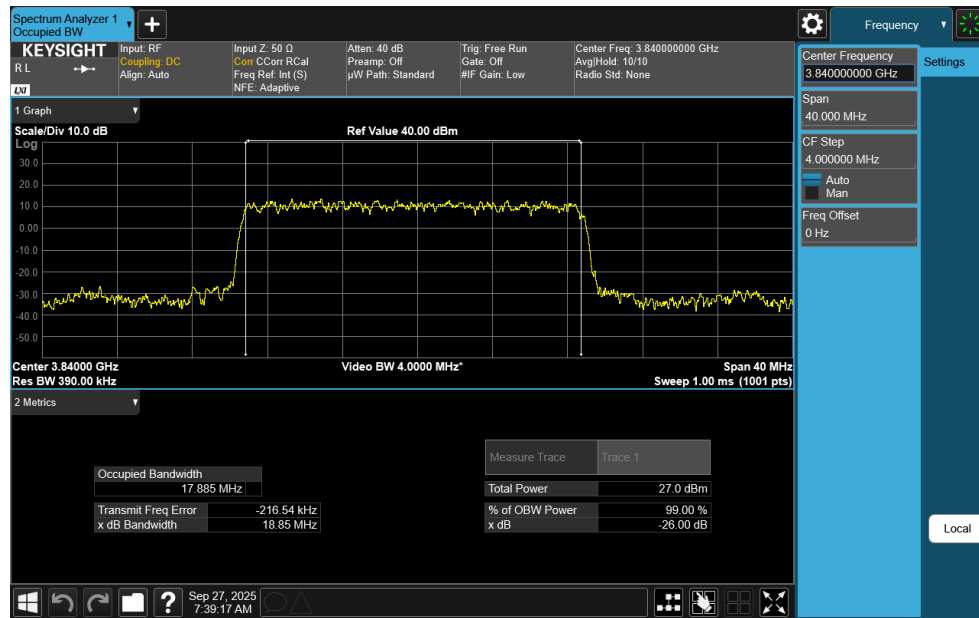


Plot 7-70. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz CP-OFDM 256-QAM - Full RB)

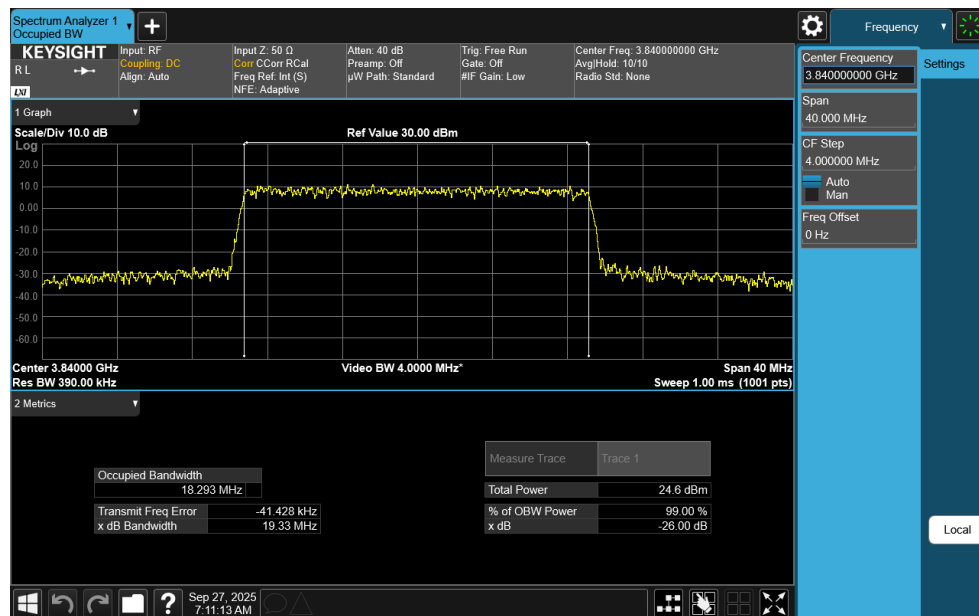
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

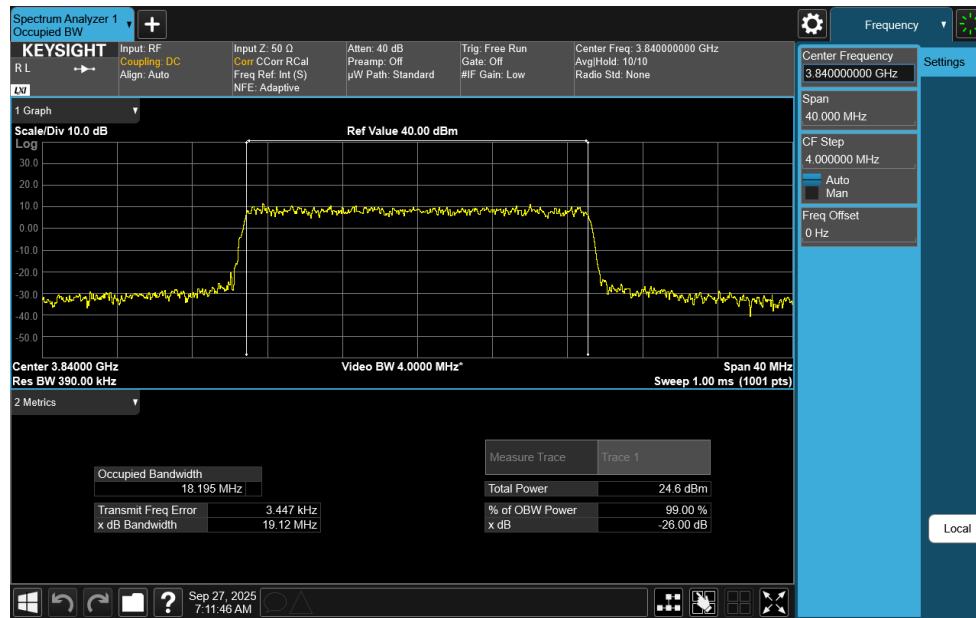


Plot 7-72. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-73. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM 16-QAM - Full RB)

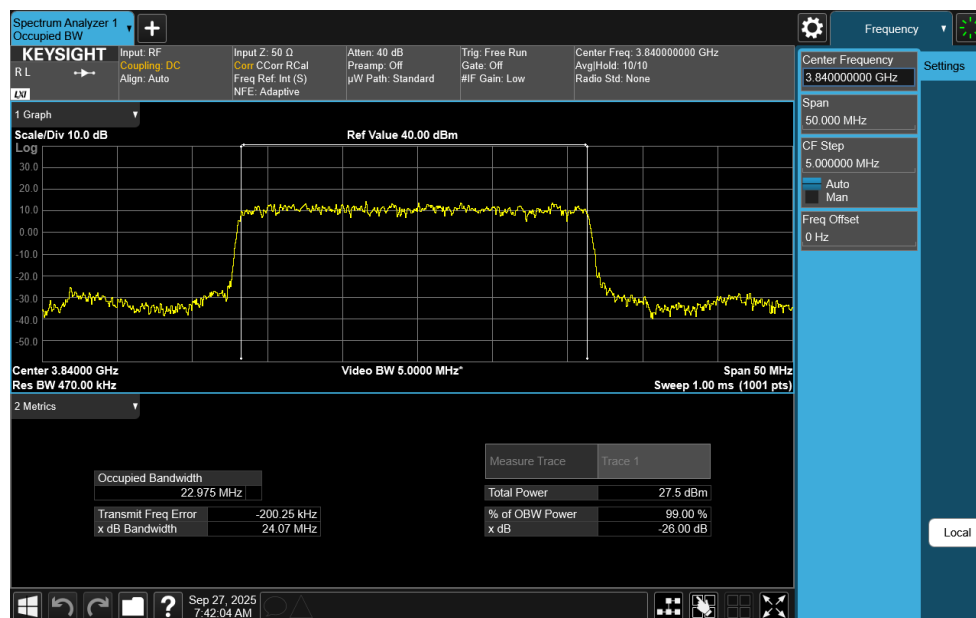
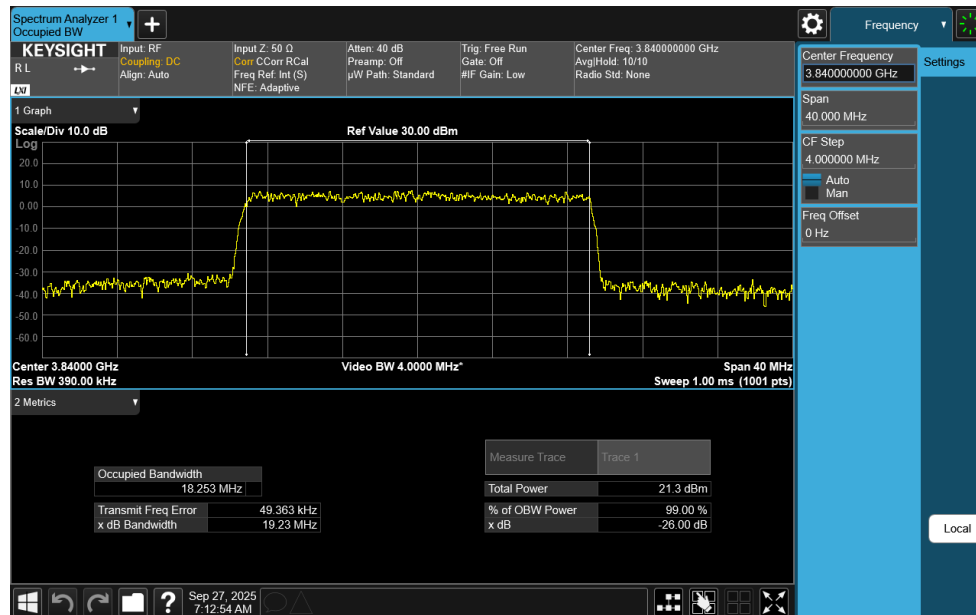


Plot 7-74. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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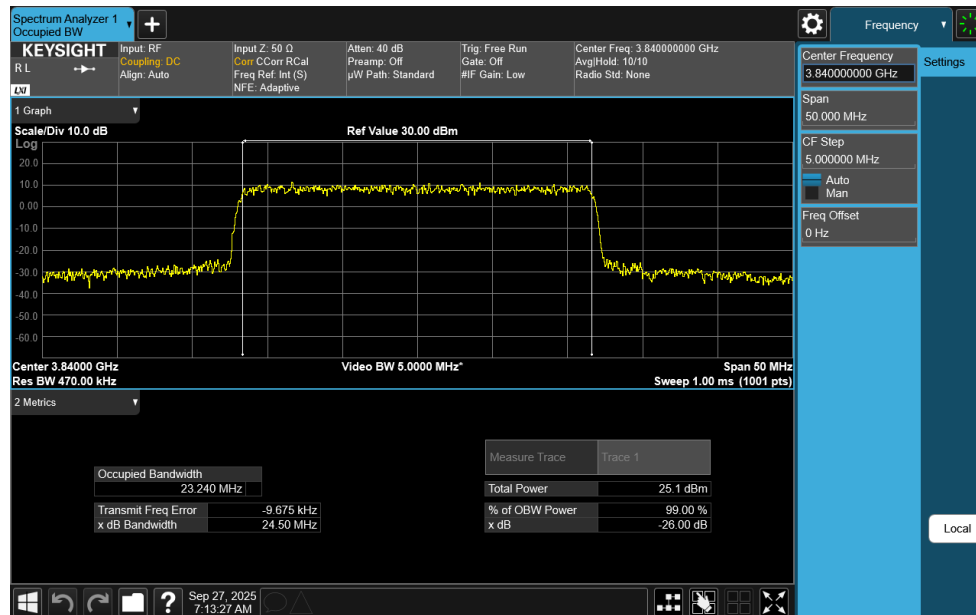
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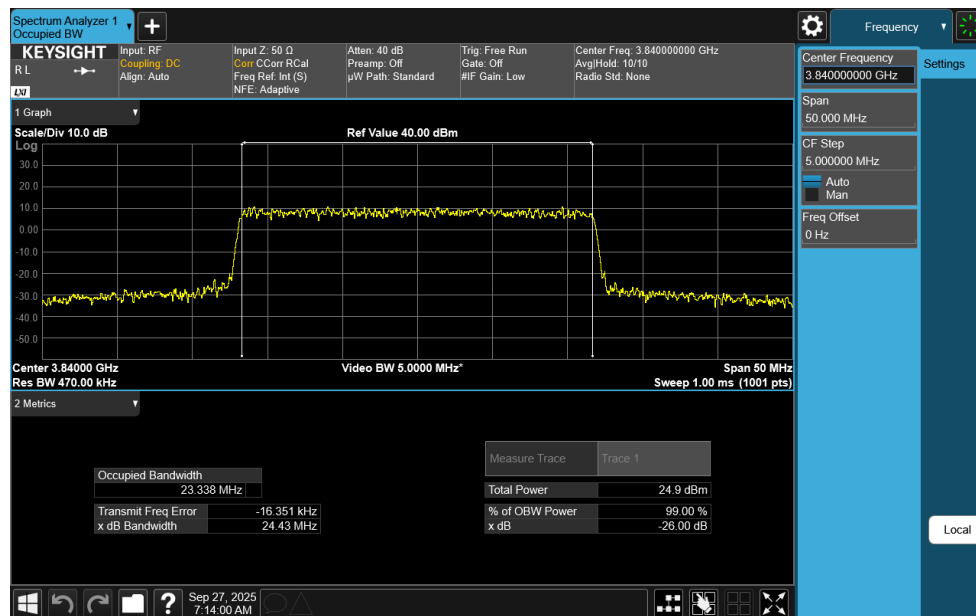
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-77. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM QPSK - Full RB)

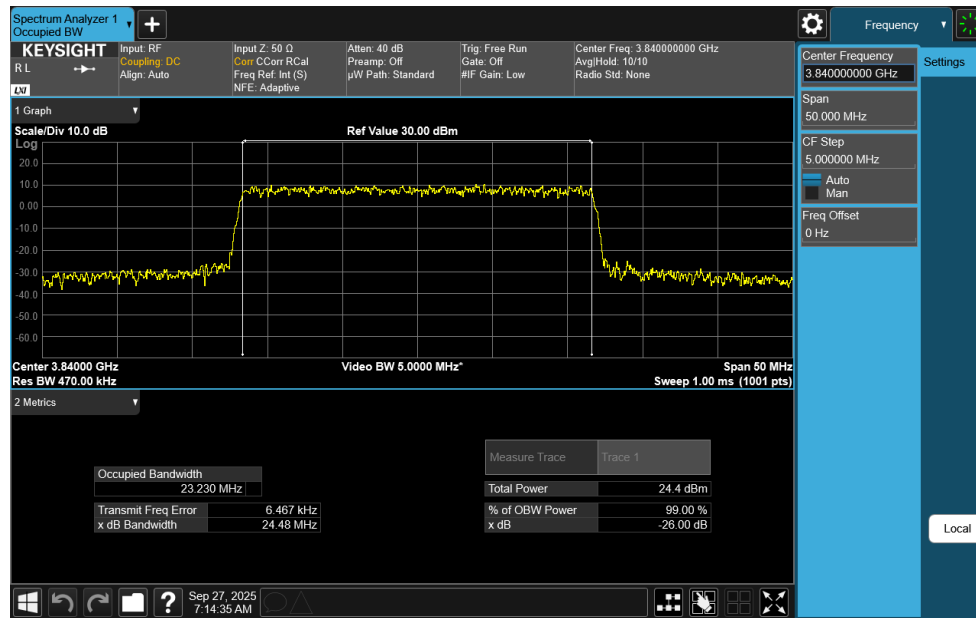


Plot 7-78. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM 16-QAM - Full RB)

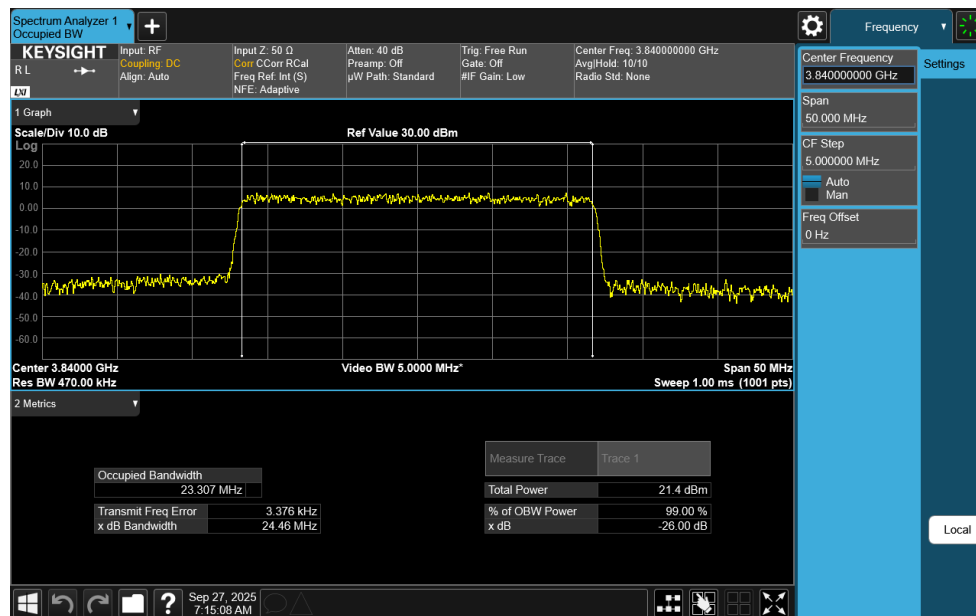
FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-79. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM 64-QAM - Full RB)

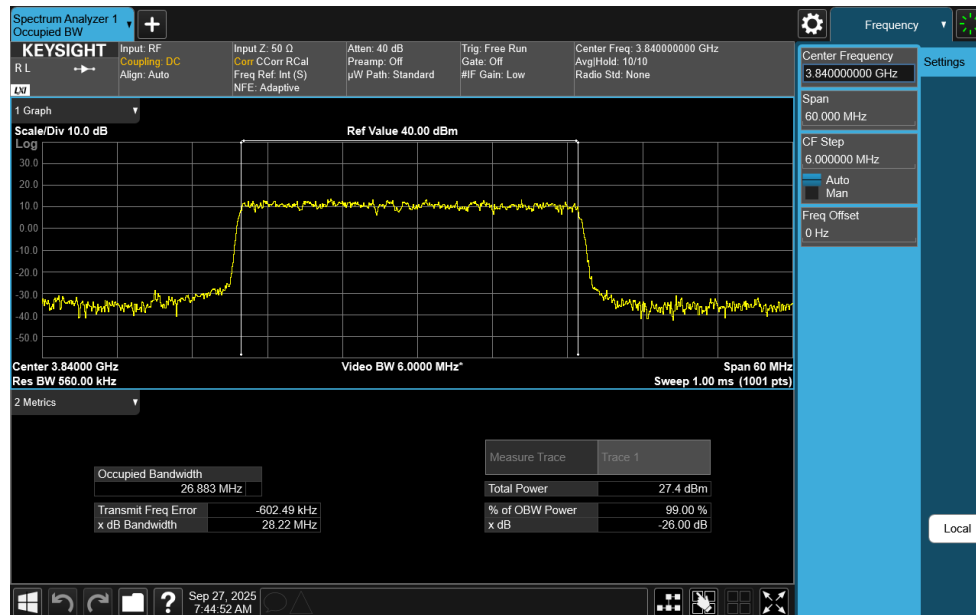


Plot 7-80. Occupied Bandwidth Plot (NR Band n77 C-Band - 25MHz CP-OFDM 256-QAM - Full RB)

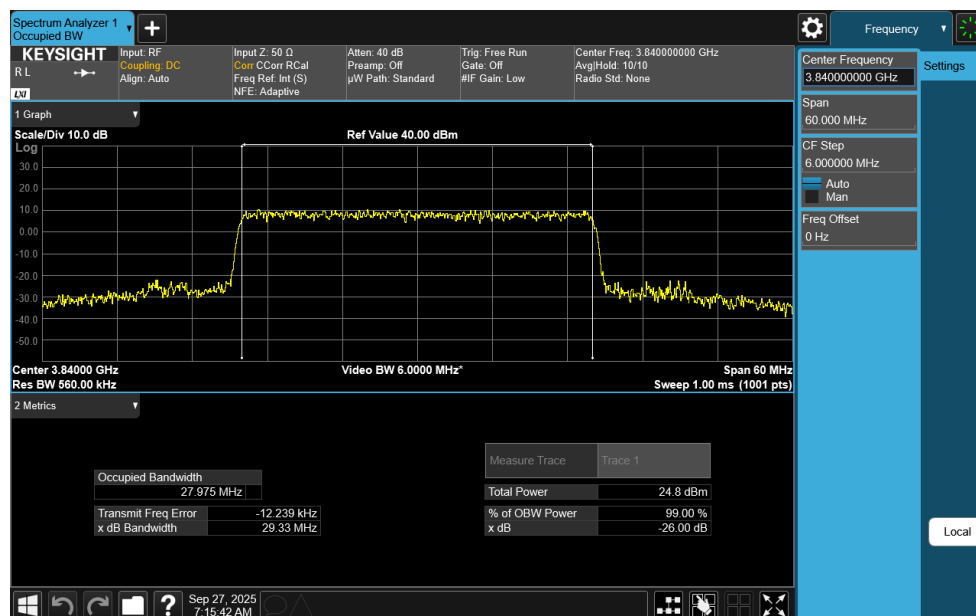
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-81. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

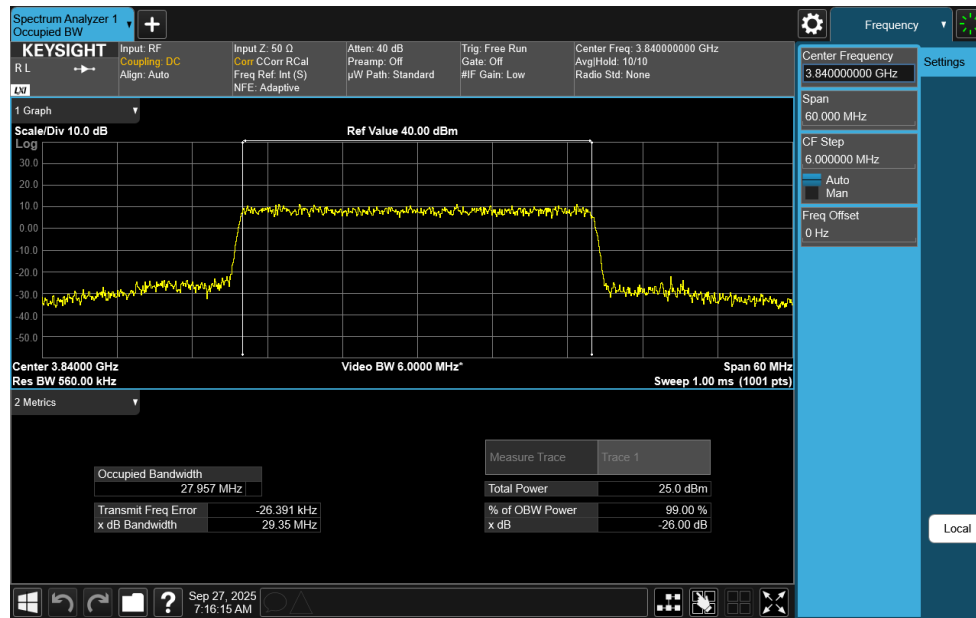


Plot 7-82. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM QPSK - Full RB)

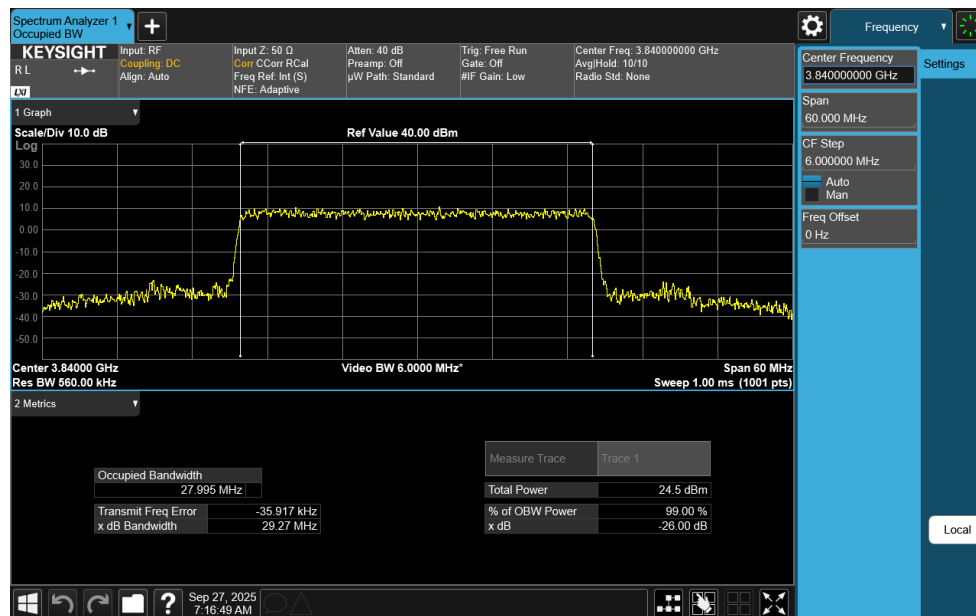
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-83. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 16-QAM - Full RB)

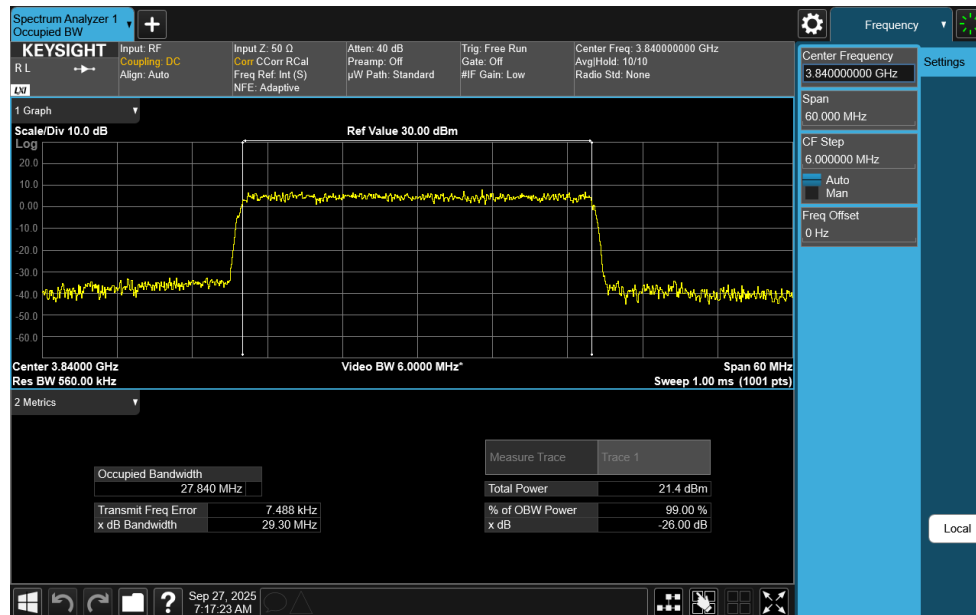


Plot 7-84. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 64-QAM - Full RB)

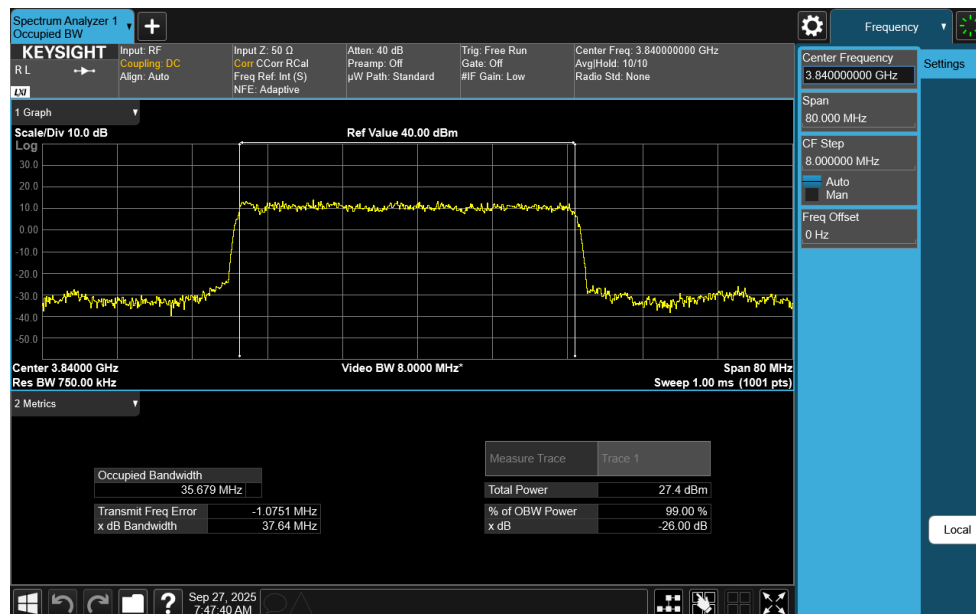
FCC ID: BCGA3462	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-85. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz CP-OFDM 256-QAM - Full RB)

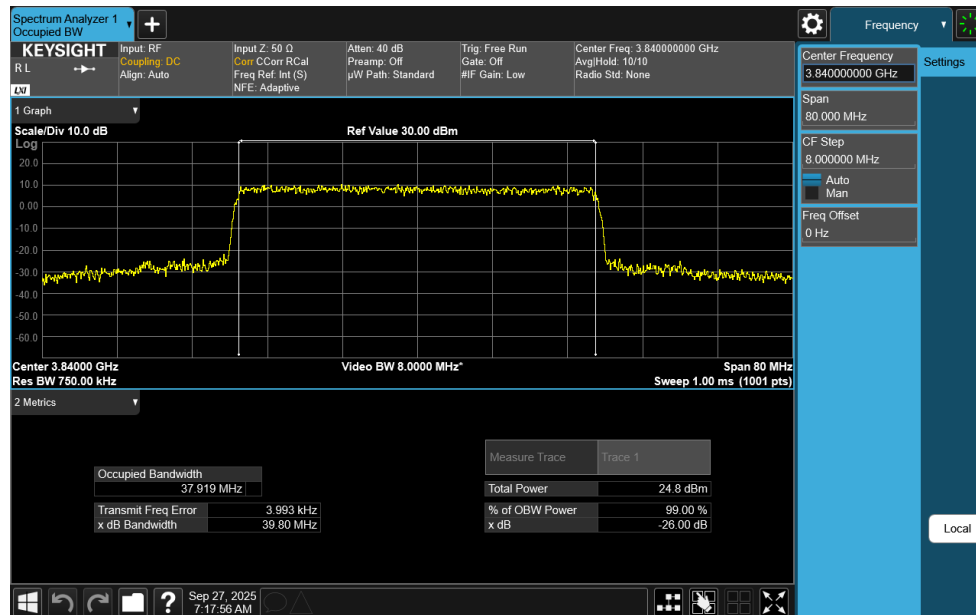


Plot 7-86. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

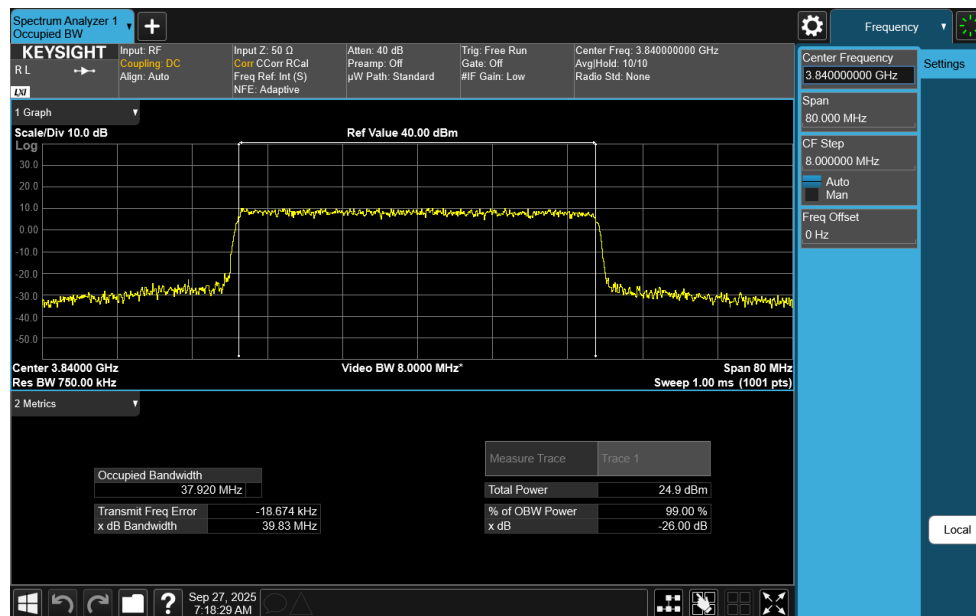
FCC ID: BCGA3462	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-87. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM QPSK - Full RB)

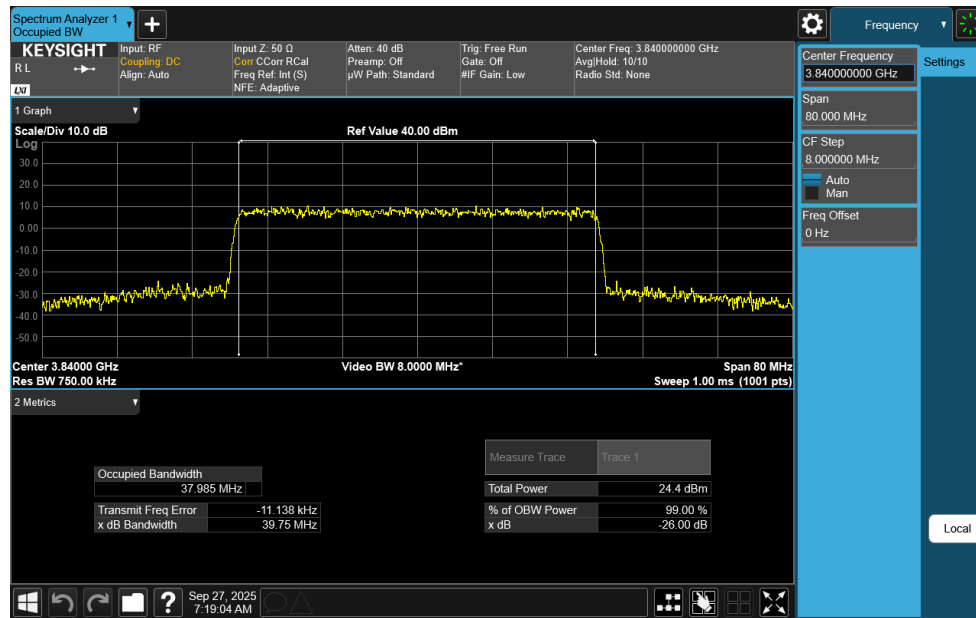


Plot 7-88. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 16-QAM - Full RB)

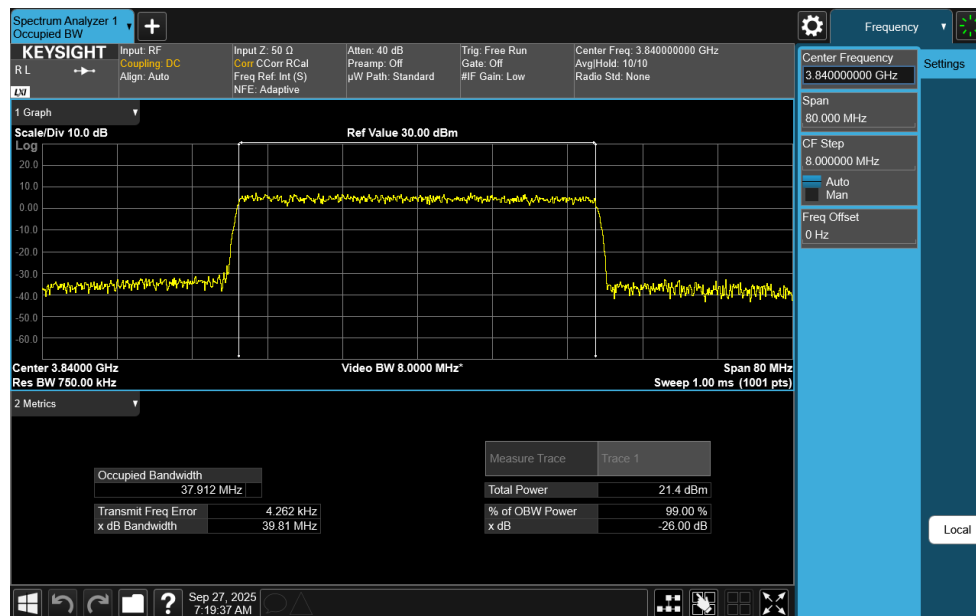
FCC ID: BCGA3462	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-89. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 64-QAM - Full RB)



Plot 7-90. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz CP-OFDM 256-QAM - Full RB)

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