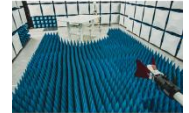




ELEMENT MATERIALS TECHNOLOGY

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<http://www.element.com>



MEASUREMENT REPORT PART 27

Applicant Name:

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

Date of Testing:

5/9/2025 - 7/15/2025

Test Report Issue Date:

9/5/2025

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170039-10-R1.BCG

FCC ID:

BCGA3358

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3358, A3359

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: 1C2504170039-10-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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

RJ Ortanez
Executive Vice President



FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170039-10-R1.BCG	Test Dates: 5/9/2025 - 7/15/2025	EUT Type: Tablet Device
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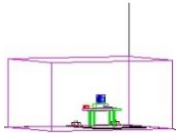
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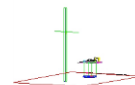
FCC ID: BCGA3358		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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PART 27 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
LTE Band 30	5 MHz	QPSK	2307.5 - 2312.5	4.5477	0.210	23.22	4M55G7W
		16QAM	2307.5 - 2312.5	4.5455	0.184	22.65	4M55D7W
		64QAM	2307.5 - 2312.5	4.5530	0.136	21.35	4M55D7W
		256QAM	2307.5 - 2312.5	4.5218	0.073	18.66	4M52D7W
	10MHz	QPSK	2310	9.0420	0.201	23.04	9M04G7W
		16QAM	2310	9.0209	0.172	22.35	9M02D7W
		64QAM	2310	9.0246	0.139	21.42	9M02D7W
		256QAM	2310	9.0374	0.073	18.66	9M04D7W
LTE Band 7	5 MHz	QPSK	2502.5 - 2567.5	4.5391	0.540	27.32	4M54G7W
		16QAM	2502.5 - 2567.5	4.5374	0.469	26.71	4M54D7W
		64QAM	2502.5 - 2567.5	4.5357	0.346	25.39	4M54D7W
		256QAM	2502.5 - 2567.5	4.5395	0.185	22.66	4M54D7W
	10 MHz	QPSK	2505 - 2565	9.0303	0.521	27.17	9M03G7W
		16QAM	2505 - 2565	9.0498	0.453	26.56	9M05D7W
		64QAM	2505 - 2565	9.0242	0.357	25.53	9M02D7W
		256QAM	2505 - 2565	9.0356	0.188	22.75	9M04D7W
	15 MHz	QPSK	2507.5 - 2562.5	13.5470	0.537	27.30	13M5G7W
		16QAM	2507.5 - 2562.5	13.5321	0.453	26.56	13M5D7W
		64QAM	2507.5 - 2562.5	13.5314	0.352	25.47	13M5D7W
		256QAM	2507.5 - 2562.5	13.5152	0.184	22.64	13M5D7W
	20 MHz	QPSK	2510 - 2560	18.0164	0.513	27.10	18M0G7W
		16QAM	2510 - 2560	18.0413	0.441	26.44	18M0D7W
		64QAM	2510 - 2560	17.9832	0.341	25.33	18M0D7W
		256QAM	2510 - 2560	17.9630	0.182	22.60	18M0D7W
LTE Band 41 (PC2)	5 MHz	QPSK	2498.5 - 2687.5	4.5531	1.138	30.56	4M55G7W
		16QAM	2498.5 - 2687.5	4.5361	0.982	29.92	4M54D7W
		64QAM	2498.5 - 2687.5	4.5475	0.817	29.12	4M55D7W
		256QAM	2498.5 - 2687.5	4.5461	0.441	26.44	4M55D7W
	10 MHz	QPSK	2501 - 2685	9.0260	1.127	30.52	9M03G7W
		16QAM	2501 - 2685	9.0098	0.991	29.96	9M01D7W
		64QAM	2501 - 2685	9.0377	0.809	29.08	9M04D7W
		256QAM	2501 - 2685	9.0442	0.409	26.12	9M04D7W
	15 MHz	QPSK	2503.5 - 2682.5	13.5483	1.130	30.53	13M5G7W
		16QAM	2503.5 - 2682.5	13.5340	0.968	29.86	13M5D7W
		64QAM	2503.5 - 2682.5	13.5352	0.783	28.94	13M5D7W
		256QAM	2503.5 - 2682.5	13.4853	0.442	26.45	13M5D7W
	20 MHz	QPSK	2506 - 2680	17.9802	1.125	30.51	18M0G7W
		16QAM	2506 - 2680	17.9560	0.984	29.93	18M0D7W
		64QAM	2506 - 2680	17.9993	0.817	29.12	18M0D7W
		256QAM	2506 - 2680	17.9784	0.441	26.44	18M0D7W
LTE Band 41(PC3)	5 MHz	QPSK	2498.5 - 2687.5	4.5531	0.655	28.16	4M55G7W
		16QAM	2498.5 - 2687.5	4.5361	0.524	27.19	4M54D7W
		64QAM	2498.5 - 2687.5	4.5475	0.410	26.13	4M55D7W
		256QAM	2498.5 - 2687.5	4.5461	0.226	23.54	4M55D7W
	10 MHz	QPSK	2501 - 2685	9.0260	0.650	28.13	9M03G7W
		16QAM	2501 - 2685	9.0098	0.535	27.28	9M01D7W
		64QAM	2501 - 2685	9.0377	0.409	26.12	9M04D7W
		256QAM	2501 - 2685	9.0442	0.229	23.60	9M04D7W
	15 MHz	QPSK	2503.5 - 2682.5	13.5483	0.638	28.05	13M5G7W
		16QAM	2503.5 - 2682.5	13.5340	0.521	27.17	13M5D7W
		64QAM	2503.5 - 2682.5	13.5352	0.411	26.14	13M5D7W
		256QAM	2503.5 - 2682.5	13.4853	0.225	23.52	13M5D7W
	20 MHz	QPSK	2506 - 2680	17.9802	0.640	28.06	18M0G7W
		16QAM	2506 - 2680	17.9560	0.512	27.09	18M0D7W
		64QAM	2506 - 2680	17.9993	0.395	25.97	18M0D7W
		256QAM	2506 - 2680	17.9784	0.227	23.56	18M0D7W
ULCA LTE Band 7	20 + 20 MHz	QPSK	2520 - 2550	37.6321	0.568	27.54	37M6G7W
		16QAM	2520 - 2550	37.5725	0.371	25.69	37M6D7W
		64QAM	2520 - 2550	37.5331	0.298	24.74	37M5D7W
		256QAM	2520 - 2550	37.4663	0.192	22.83	37M5D7W
ULCA LTE Band 41(PC2)	20 + 20 MHz	QPSK	2516 - 2670	37.5721	1.180	30.72	37M6G7W
		16QAM	2516 - 2670	37.5265	0.839	29.24	37M5D7W
		64QAM	2516 - 2670	37.6131	0.640	28.06	37M6D7W
		256QAM	2516 - 2670	37.5731	0.312	24.94	37M6D7W
ULCA LTE Band 41(PC3)	20 + 20 MHz	QPSK	2516 - 2670	37.5721	0.634	28.02	37M6G7W
		16QAM	2516 - 2670	37.5265	0.392	25.93	37M5D7W
		64QAM	2516 - 2670	37.6131	0.312	24.94	37M6D7W
		256QAM	2516 - 2670	37.5731	0.159	22.01	37M6D7W

EUT Overview

FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2504170039-10-R1.BCG	Test Dates: 5/9/2025 - 7/15/2025	EUT Type: Tablet Device	Page 3 of 318

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
NR Band n30	5 MHz	$\pi/2$ BPSK	2307.5 - 2312.5	4.4856	0.209	23.20	4M49G7W
		QPSK	2307.5 - 2312.5	4.4785	0.203	23.08	4M48G7W
		16QAM	2307.5 - 2312.5	4.4672	0.156	21.92	4M47D7W
		64QAM	2307.5 - 2312.5	4.4824	0.150	21.77	4M48D7W
		256QAM	2307.5 - 2312.5	4.5007	0.095	19.79	4M50D7W
	10MHz	$\pi/2$ BPSK	2310	8.8772	0.209	23.20	8M88G7W
		QPSK	2310	9.2962	0.205	23.13	9M30G7W
		16QAM	2310	9.2913	0.178	22.49	9M29D7W
		64QAM	2310	9.3093	0.148	21.71	9M31D7W
		256QAM	2310	9.2906	0.095	19.77	9M29D7W
NR Band n7	5 MHz	$\pi/2$ BPSK	2502.5 - 2567.5	4.4819	0.543	27.35	4M48G7W
		QPSK	2502.5 - 2567.5	4.4796	0.533	27.26	4M48G7W
		16QAM	2502.5 - 2567.5	4.4836	0.410	26.13	4M48D7W
		64QAM	2502.5 - 2567.5	4.4888	0.335	25.25	4M49D7W
		256QAM	2502.5 - 2567.5	4.5021	0.213	23.28	4M50D7W
	10 MHz	$\pi/2$ BPSK	2505 - 2565	8.9069	0.548	27.38	8M91G7W
		QPSK	2505 - 2565	9.3393	0.536	27.29	9M34G7W
		16QAM	2505 - 2565	9.3091	0.407	26.09	9M31D7W
		64QAM	2505 - 2565	9.2501	0.334	25.24	9M25D7W
		256QAM	2505 - 2565	9.2450	0.217	23.36	9M25D7W
	15 MHz	$\pi/2$ BPSK	2507.5 - 2562.5	13.4201	0.526	27.21	13M4G7W
		QPSK	2507.5 - 2562.5	14.1568	0.523	27.18	14M2G7W
		16QAM	2507.5 - 2562.5	14.1370	0.400	26.02	14M1D7W
		64QAM	2507.5 - 2562.5	14.1402	0.335	25.25	14M1D7W
		256QAM	2507.5 - 2562.5	14.1686	0.214	23.31	14M2D7W
	20 MHz	$\pi/2$ BPSK	2510 - 2560	17.9154	0.540	27.32	17M9G7W
		QPSK	2510 - 2560	19.0429	0.539	27.31	19M0G7W
		16QAM	2510 - 2560	18.9988	0.408	26.11	19M0D7W
		64QAM	2510 - 2560	18.9111	0.336	25.26	18M9D7W
		256QAM	2510 - 2560	18.9659	0.213	23.29	19M0D7W
	25 MHz	$\pi/2$ BPSK	2512.5 - 2557.5	22.9944	0.533	27.27	23M0G7W
		QPSK	2512.5 - 2557.5	23.8947	0.528	27.22	23M9G7W
		16QAM	2512.5 - 2557.5	23.8234	0.397	25.99	23M8D7W
		64QAM	2512.5 - 2557.5	23.7789	0.341	25.33	23M8D7W
		256QAM	2512.5 - 2557.5	23.7053	0.215	23.33	23M7D7W
	30 MHz	$\pi/2$ BPSK	2515 - 2555	28.5780	0.529	27.23	28M6G7W
		QPSK	2515 - 2555	28.6928	0.538	27.31	28M7G7W
		16QAM	2515 - 2555	28.6560	0.409	26.12	28M7D7W
		64QAM	2515 - 2555	28.5932	0.338	25.29	28M6D7W
		256QAM	2515 - 2555	28.6133	0.217	23.36	28M6D7W
	35 MHz	$\pi/2$ BPSK	2517.5 - 2552.5	32.2784	0.540	27.32	32M3G7W
		QPSK	2517.5 - 2552.5	33.6663	0.528	27.23	33M7G7W
		16QAM	2517.5 - 2552.5	33.6597	0.402	26.04	33M7D7W
		64QAM	2517.5 - 2552.5	33.5031	0.339	25.30	33M5D7W
		256QAM	2517.5 - 2552.5	33.6985	0.209	23.19	33M7D7W
	40 MHz	$\pi/2$ BPSK	2520 - 2550	38.6702	0.534	27.27	38M7G7W
		QPSK	2520 - 2550	38.5513	0.536	27.30	38M6G7W
		16QAM	2520 - 2550	38.6774	0.405	26.08	38M7D7W
		64QAM	2520 - 2550	38.6137	0.339	25.31	38M6D7W
		256QAM	2520 - 2550	38.7017	0.221	23.45	38M7D7W
	50 MHz	$\pi/2$ BPSK	2525 - 2545	48.1484	0.544	27.35	48M1G7W
		QPSK	2525 - 2545	48.2221	0.543	27.34	48M2G7W
		16QAM	2525 - 2545	48.2952	0.398	26.00	48M3D7W
		64QAM	2525 - 2545	48.3168	0.336	25.26	48M3D7W
		256QAM	2525 - 2545	48.3173	0.214	23.30	48M3D7W

EUT Overview

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Test Report S/N: 1C2504170039-10-R1.BCG	Test Dates: 5/9/2025 - 7/15/2025	EUT Type: Tablet Device	Page 4 of 318

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
NR Band n41 (PC2)	10 MHz	TT/2 BPSK	2501 - 2685	8.5655	1.086	30.36	8M57G7W
		QPSK	2501 - 2685	8.6073	1.073	30.31	8M61G7W
		16QAM	2501 - 2685	8.6254	0.831	29.20	8M63D7W
		64QAM	2501 - 2685	8.5476	0.605	27.82	8M55D7W
		256QAM	2501 - 2685	8.5955	0.404	26.06	8M60D7W
	15MHz	TT/2 BPSK	2503.5 - 2682.5	12.8689	1.094	30.39	12M9G7W
		QPSK	2503.5 - 2682.5	13.5793	1.127	30.52	13M6G7W
		16QAM	2503.5 - 2682.5	13.6570	0.870	29.40	13M7D7W
		64QAM	2503.5 - 2682.5	13.6478	0.604	27.81	13M6D7W
		256QAM	2503.5 - 2682.5	13.6254	0.393	25.95	13M6D7W
	20 MHz	TT/2 BPSK	2506 - 2680	17.8623	1.079	30.33	17M9G7W
		QPSK	2506 - 2680	18.2648	1.114	30.47	18M3G7W
		16QAM	2506 - 2680	18.2371	0.834	29.21	18M2D7W
		64QAM	2506 - 2680	18.3819	0.615	27.89	18M4D7W
		256QAM	2506 - 2680	18.2488	0.404	26.07	18M2D7W
	25MHz	TT/2 BPSK	2508.5 - 2677.5	22.8685	1.086	30.36	22M9G7W
		QPSK	2508.5 - 2677.5	23.1962	1.077	30.32	23M2G7W
		16QAM	2508.5 - 2677.5	23.1710	0.815	29.11	23M2D7W
		64QAM	2508.5 - 2677.5	23.1911	0.594	27.74	23M2D7W
		256QAM	2508.5 - 2677.5	23.2380	0.388	25.89	23M2D7W
	30MHz	TT/2 BPSK	2511 - 2675	26.8702	1.068	30.29	26M9G7W
		QPSK	2511 - 2675	27.9425	1.081	30.34	27M9G7W
		16QAM	2511 - 2675	27.8173	0.862	29.35	27M8D7W
		64QAM	2511 - 2675	27.7569	0.613	27.87	27M8D7W
		256QAM	2511 - 2675	27.7605	0.406	26.09	27M8D7W
	35 MHz	TT/2 BPSK	2513.5 - 2672.5	32.2188	1.064	30.27	32M2G7W
		QPSK	2513.5 - 2672.5	33.0404	1.164	30.66	33M0G7W
		16QAM	2513.5 - 2672.5	32.9782	0.848	29.29	33M0D7W
		64QAM	2513.5 - 2672.5	32.9701	0.609	27.85	33M0D7W
		256QAM	2513.5 - 2672.5	32.8805	0.404	26.06	32M9D7W
	40 MHz	TT/2 BPSK	2516 - 2670	35.8678	1.079	30.33	35M9G7W
		QPSK	2516 - 2670	37.9873	1.080	30.33	38M0G7W
		16QAM	2516 - 2670	37.9854	0.840	29.24	38M0D7W
		64QAM	2516 - 2670	37.7983	0.613	27.88	37M8D7W
		256QAM	2516 - 2670	37.9294	0.405	26.08	37M9D7W
	45 MHz	TT/2 BPSK	2518.5 - 2667.5	38.6616	1.090	30.37	38M7G7W
		QPSK	2518.5 - 2667.5	42.5818	1.087	30.36	42M6G7W
		16QAM	2518.5 - 2667.5	42.4749	0.831	29.20	42M5D7W
		64QAM	2518.5 - 2667.5	42.5257	0.613	27.87	42M5D7W
		256QAM	2518.5 - 2667.5	42.4518	0.405	26.07	42M5D7W
	50 MHz	TT/2 BPSK	2521 - 2665	45.6777	1.064	30.27	45M7G7W
		QPSK	2521 - 2665	47.4899	1.062	30.26	47M5G7W
		16QAM	2521 - 2665	47.4822	0.858	29.33	47M5D7W
		64QAM	2521 - 2665	47.5803	0.603	27.80	47M6D7W
		256QAM	2521 - 2665	47.5541	0.391	25.92	47M6D7W
	60 MHz	TT/2 BPSK	2526 - 2660	58.0346	1.053	30.22	58M0G7W
		QPSK	2526 - 2660	57.9443	1.069	30.29	57M9G7W
		16QAM	2526 - 2660	57.9141	0.823	29.15	57M9D7W
		64QAM	2526 - 2660	58.0020	0.599	27.78	58M0D7W
		256QAM	2526 - 2660	57.8822	0.407	26.10	57M9D7W
	70 MHz	TT/2 BPSK	2531 - 2655	64.4668	1.054	30.23	64M5G7W
		QPSK	2531 - 2655	67.5021	1.099	30.41	67M5G7W
		16QAM	2531 - 2655	67.6980	0.830	29.19	67M7D7W
		64QAM	2531 - 2655	67.5403	0.615	27.89	67M5D7W
		256QAM	2531 - 2655	67.6017	0.400	26.02	67M6D7W
	80 MHz	TT/2 BPSK	2536 - 2650	77.1721	1.074	30.31	77M2G7W
		QPSK	2536 - 2650	77.3568	1.077	30.32	77M4G7W
		16QAM	2536 - 2650	77.4686	0.864	29.36	77M5D7W
		64QAM	2536 - 2650	77.8005	0.617	27.90	77M8D7W
		256QAM	2536 - 2650	77.4308	0.407	26.10	77M4D7W
	90 MHz	TT/2 BPSK	2541 - 2645	86.9544	1.066	30.28	87M0G7W
		QPSK	2541 - 2645	87.6176	1.121	30.49	87M6G7W
		16QAM	2541 - 2645	87.7230	0.827	29.17	87M7D7W
		64QAM	2541 - 2645	87.5941	0.630	28.00	87M6D7W
		256QAM	2541 - 2645	87.6366	0.413	26.16	87M6D7W
	100 MHz	TT/2 BPSK	2546 - 2640	96.3541	1.078	30.32	96M4G7W
		QPSK	2546 - 2640	97.4838	1.087	30.36	97M5G7W
		16QAM	2546 - 2640	97.4056	0.830	29.19	97M4D7W
		64QAM	2546 - 2640	97.6286	0.635	28.03	97M6D7W
		256QAM	2546 - 2640	97.5226	0.398	26.00	97M5D7W

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	EIRP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
NR Band n41 (PC3)	10 MHz	TT/2 BPSK	2501 - 2685	8.5655	0.609	27.85	8M57G7W
		QPSK	2501 - 2685	8.6073	0.619	27.92	8M61G7W
		16QAM	2501 - 2685	8.6254	0.472	26.74	8M63D7W
		64QAM	2501 - 2685	8.5476	0.350	25.44	8M55D7W
		256QAM	2501 - 2685	8.5955	0.229	23.60	8M60D7W
	15MHz	TT/2 BPSK	2503.5 - 2682.5	12.8689	0.602	27.80	12M9G7W
		QPSK	2503.5 - 2682.5	13.5793	0.610	27.85	13M6G7W
		16QAM	2503.5 - 2682.5	13.6570	0.494	26.94	13M7D7W
		64QAM	2503.5 - 2682.5	13.6478	0.352	25.46	13M6D7W
		256QAM	2503.5 - 2682.5	13.6254	0.227	23.56	13M6D7W
	20 MHz	TT/2 BPSK	2506 - 2680	17.8623	0.601	27.79	17M9G7W
		QPSK	2506 - 2680	18.2648	0.610	27.86	18M3G7W
		16QAM	2506 - 2680	18.2371	0.500	26.99	18M2D7W
		64QAM	2506 - 2680	18.3819	0.343	25.36	18M4D7W
		256QAM	2506 - 2680	18.2488	0.232	23.66	18M2D7W
	25MHz	TT/2 BPSK	2508.5 - 2677.5	22.8685	0.602	27.80	22M9G7W
		QPSK	2508.5 - 2677.5	23.1962	0.611	27.86	23M2G7W
		16QAM	2508.5 - 2677.5	23.1710	0.485	26.86	23M2D7W
		64QAM	2508.5 - 2677.5	23.1911	0.350	25.44	23M2D7W
		256QAM	2508.5 - 2677.5	23.2380	0.228	23.57	23M2D7W
	30MHz	TT/2 BPSK	2511 - 2675	26.8702	0.618	27.91	26M9G7W
		QPSK	2511 - 2675	27.9425	0.623	27.95	27M9G7W
		16QAM	2511 - 2675	27.8173	0.478	26.79	27M8D7W
		64QAM	2511 - 2675	27.7569	0.352	25.47	27M8D7W
		256QAM	2511 - 2675	27.7605	0.232	23.66	27M8D7W
	35 MHz	TT/2 BPSK	2513.5 - 2672.5	32.2188	0.603	27.81	32M2G7W
		QPSK	2513.5 - 2672.5	33.0404	0.618	27.91	33M0G7W
		16QAM	2513.5 - 2672.5	32.9782	0.508	27.06	33M0D7W
		64QAM	2513.5 - 2672.5	32.9701	0.347	25.40	33M0D7W
		256QAM	2513.5 - 2672.5	32.8805	0.232	23.66	32M9D7W
	40 MHz	TT/2 BPSK	2516 - 2670	35.8678	0.613	27.87	35M9G7W
		QPSK	2516 - 2670	37.9873	0.618	27.91	38M0G7W
		16QAM	2516 - 2670	37.9854	0.499	26.98	38M0D7W
		64QAM	2516 - 2670	37.7983	0.358	25.54	37M8D7W
		256QAM	2516 - 2670	37.9294	0.234	23.69	37M9D7W
	45 MHz	TT/2 BPSK	2518.5 - 2667.5	38.6616	0.617	27.90	38M7G7W
		QPSK	2518.5 - 2667.5	42.5818	0.626	27.96	42M6G7W
		16QAM	2518.5 - 2667.5	42.4749	0.477	26.78	42M5D7W
		64QAM	2518.5 - 2667.5	42.5257	0.351	25.46	42M5D7W
		256QAM	2518.5 - 2667.5	42.4518	0.231	23.64	42M5D7W
	50 MHz	TT/2 BPSK	2521 - 2665	45.6777	0.604	27.81	45M7G7W
		QPSK	2521 - 2665	47.4899	0.613	27.87	47M5G7W
		16QAM	2521 - 2665	47.4822	0.492	26.92	47M5D7W
		64QAM	2521 - 2665	47.5803	0.347	25.41	47M6D7W
		256QAM	2521 - 2665	47.5541	0.226	23.55	47M6D7W
	60 MHz	TT/2 BPSK	2526 - 2660	58.0346	0.600	27.78	58M0G7W
		QPSK	2526 - 2660	57.9443	0.613	27.87	57M9G7W
		16QAM	2526 - 2660	57.9141	0.469	26.71	57M9D7W
		64QAM	2526 - 2660	58.0020	0.345	25.38	58M0D7W
		256QAM	2526 - 2660	57.8822	0.230	23.61	57M9D7W
	70 MHz	TT/2 BPSK	2531 - 2655	64.4668	0.617	27.90	64M5G7W
		QPSK	2531 - 2655	67.5021	0.616	27.90	67M5G7W
		16QAM	2531 - 2655	67.6980	0.466	26.68	67M7D7W
		64QAM	2531 - 2655	67.5403	0.346	25.39	67M5D7W
		256QAM	2531 - 2655	67.6017	0.232	23.66	67M6D7W
	80 MHz	TT/2 BPSK	2536 - 2650	77.1721	0.603	27.80	77M2G7W
		QPSK	2536 - 2650	77.3568	0.617	27.90	77M4G7W
		16QAM	2536 - 2650	77.4686	0.470	26.72	77M5D7W
		64QAM	2536 - 2650	77.8005	0.342	25.34	77M8D7W
		256QAM	2536 - 2650	77.4308	0.230	23.62	77M4D7W
	90 MHz	TT/2 BPSK	2541 - 2645	86.9544	0.599	27.78	87M0G7W
		QPSK	2541 - 2645	87.6176	0.623	27.95	87M6G7W
		16QAM	2541 - 2645	87.7230	0.480	26.81	87M7D7W
		64QAM	2541 - 2645	87.5941	0.343	25.36	87M6D7W
		256QAM	2541 - 2645	87.6366	0.229	23.61	87M6D7W
	100 MHz	TT/2 BPSK	2546 - 2640	96.3541	0.609	27.85	96M4G7W
		QPSK	2546 - 2640	97.4838	0.617	27.90	97M5G7W
		16QAM	2546 - 2640	97.4056	0.463	26.65	97M4D7W
		64QAM	2546 - 2640	97.6286	0.351	25.45	97M6D7W
		256QAM	2546 - 2640	97.5226	0.223	23.49	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 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:BCGA3358**. 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.: PR2VX0967D, VD46R476X4, TH090R54C9, 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), WPT

This device supports BT Beamforming

This device supports channel puncturing and channel bandwidth reduction.

Measurements for LTE Band 41, FR1 Band n41, and LTE ULCA B41 were performed with NS04 for all antennas.

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

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 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 manufacturer were used for testing.

Band	Antenna Gain [dBi]			
	Antenna 4b	Antenna 1	Antenna 3	Antenna 2b
LTE Band 30	0.1	-0.8	1.4	-2.3
NR Band n30				
LTE Band 7	-0.6	1.2	2.5	-1.2
NR Band n7				
LTE Band 41	-0.4	1.3	2.6	-2.3
NR Band n41				

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable	Model:	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

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2.5 Test Configuration

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

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

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

And

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

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	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:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- * denotes passive equipment that 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: BCGA3358
FCC Classification: PCS Licensed Transmitter (PCB)
Mode(s): LTE/NR/ULCA

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	N/A	Section 7.2
	Conducted Band Edge / Spurious Emissions (LTE Band 30)	2.1051, 27.53(a)	Undesirable emissions must meet the limits detailed in 27.53(a)	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (NR Band n30)			PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (LTE Band 41/7)	2.1051, 27.53(m)	Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (NR Band n41/n7)			PASS	Sections 7.3, 7.4
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 30)	27.50(a)(3)	< 0.25 Watts max. EIRP	PASS	Section 7.5
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n30)			PASS	Section 7.5
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 41/7)	27.50(h)(2)	< 2 Watts max. EIRP	PASS	Section 7.5
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n41/n7)			PASS	Section 7.5
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	PASS	Section 7.7
RADIATED	Radiated Spurious Emissions (LTE Band 30)	2.1053, 27.53(a)	> 70 + 10log10(P[Watts])	PASS	Section 7.6
	Radiated Spurious Emissions (NR Band n30)			PASS	Section 7.6
	Radiated Spurious Emissions (LTE Band 41/7)	2.1053, 27.53(m)	Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Section 7.6
	Radiated Spurious Emissions (NR Band n41/n7)			PASS	Section 7.6

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.

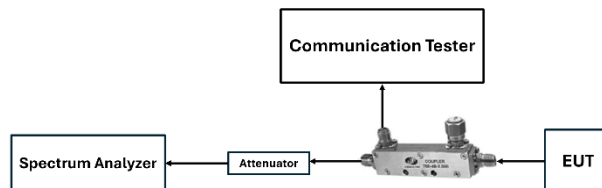


Figure 7-1. LTE Test Instrument & Measurement Setup

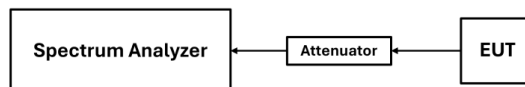


Figure 7-2. FR1 Test Instrument & Measurement Setup

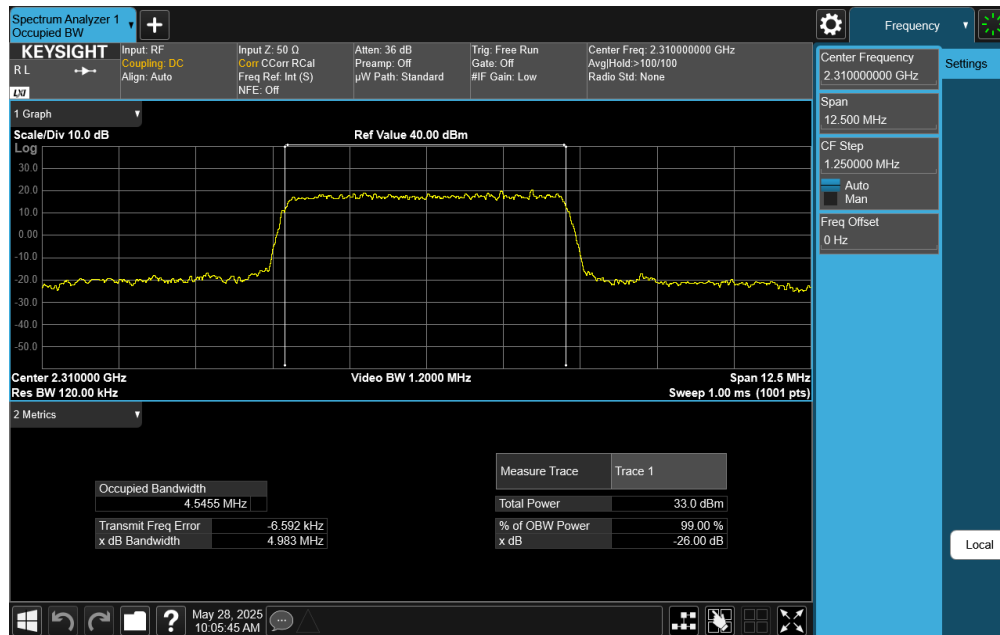
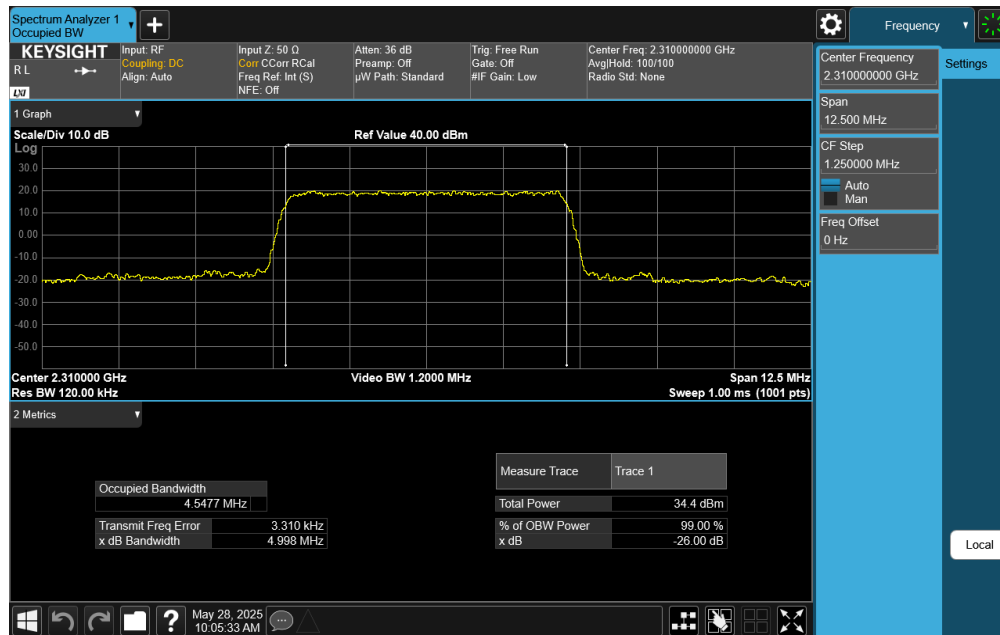
Test Notes

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

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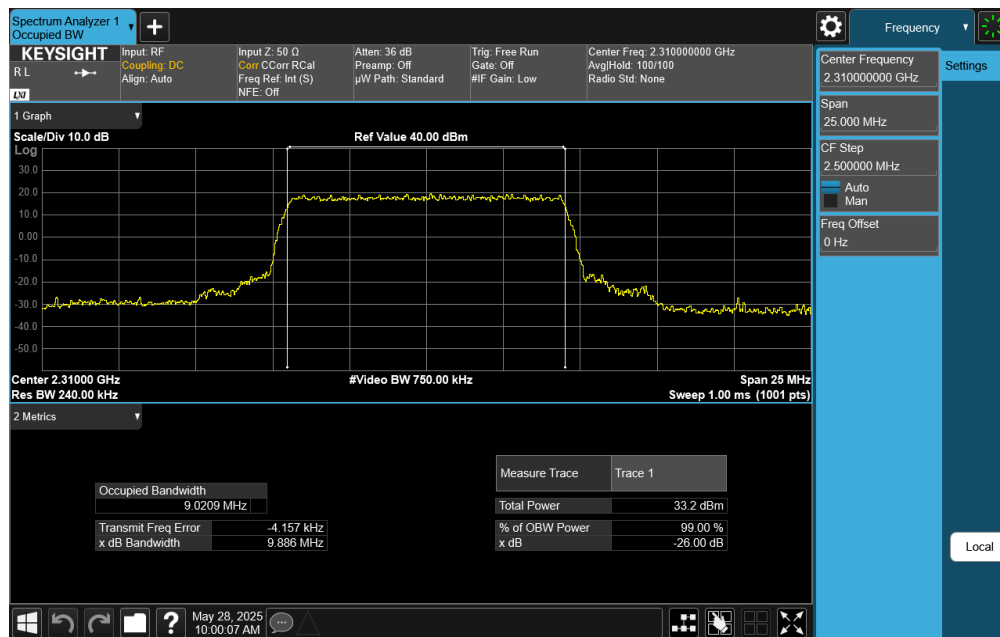
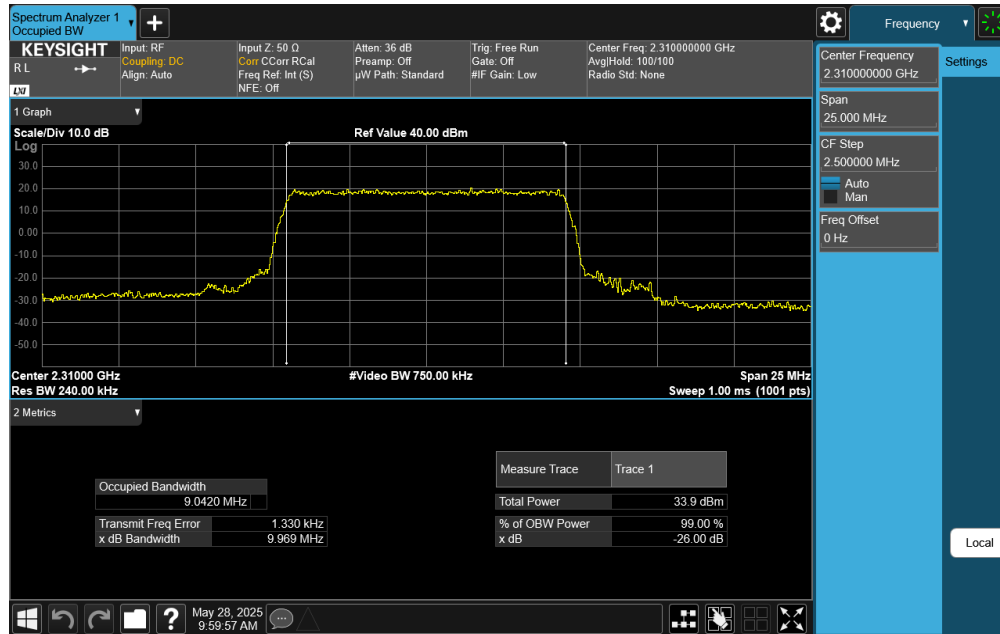
LTE Band 30



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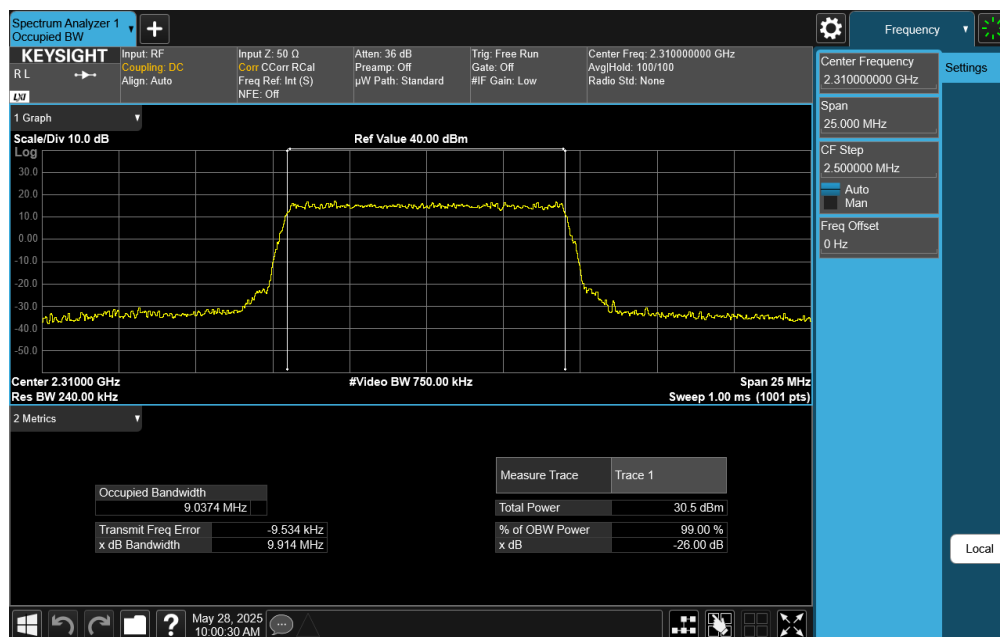
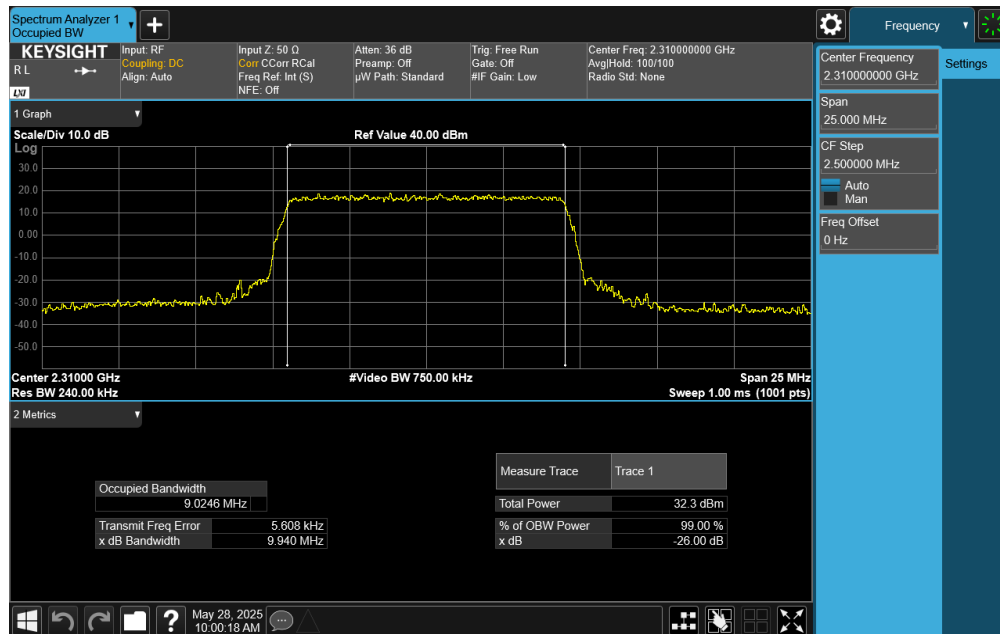
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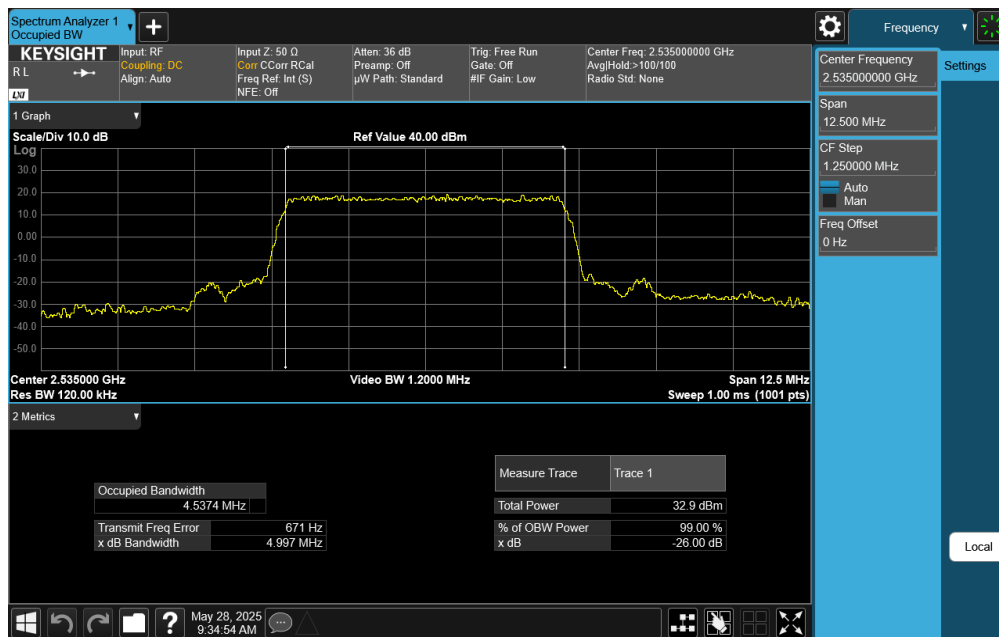


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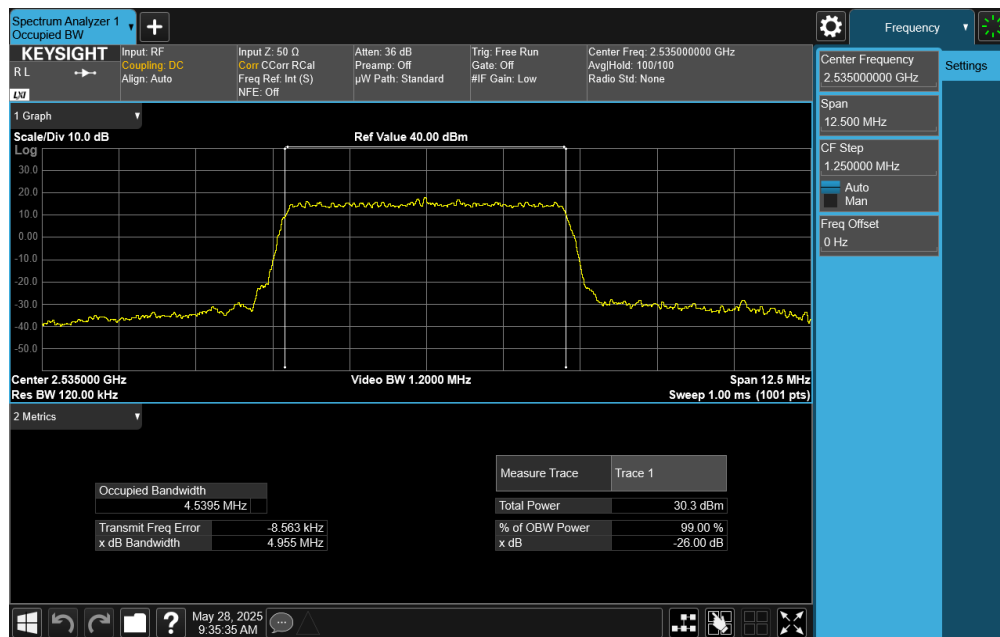
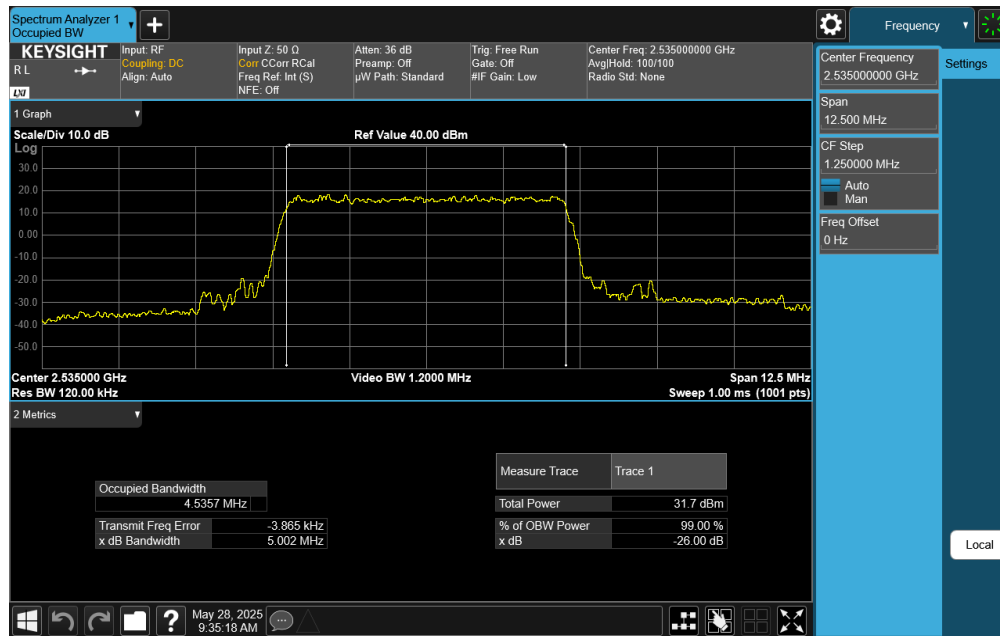
LTE Band 7



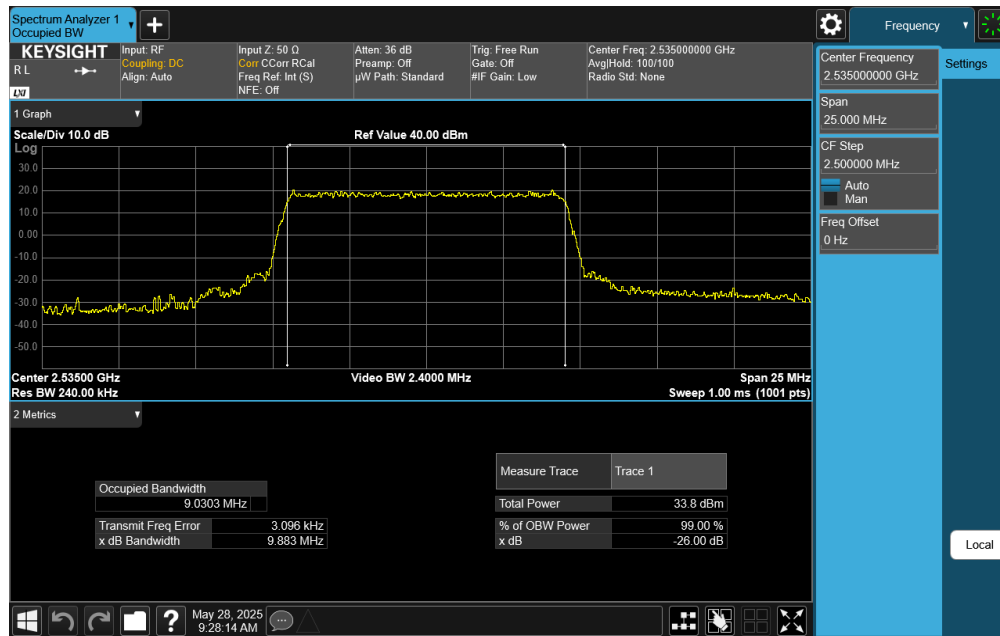
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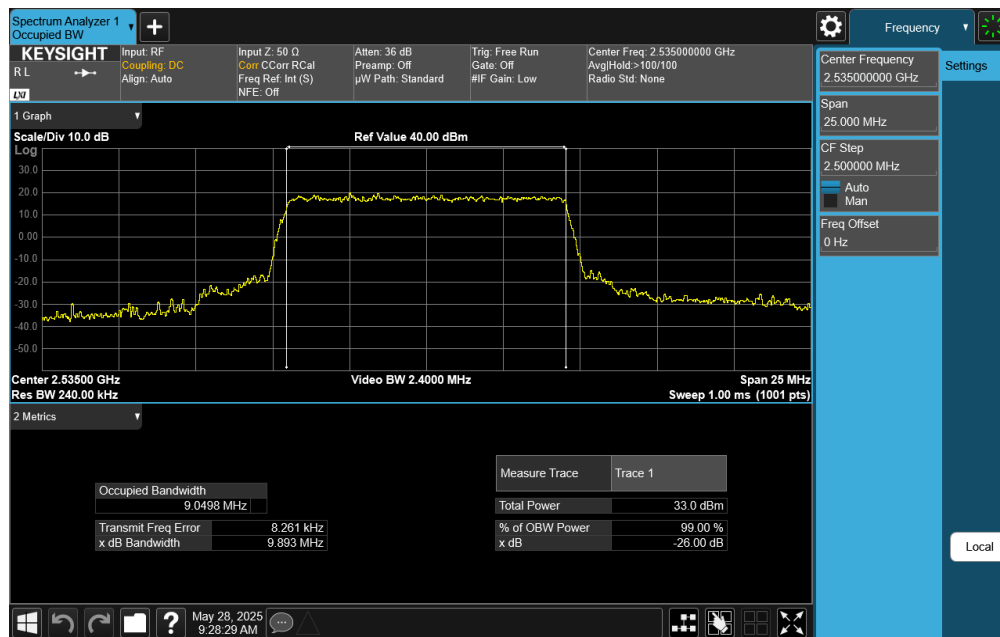
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 7 - 10MHz QPSK - Full RB)

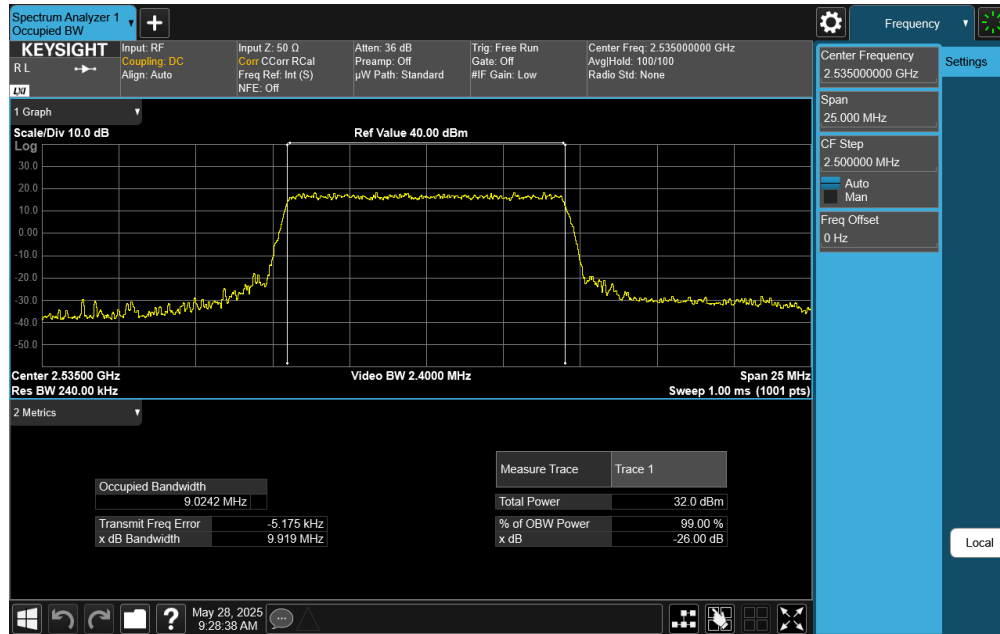


Plot 7-14. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 16-QAM - Full RB)

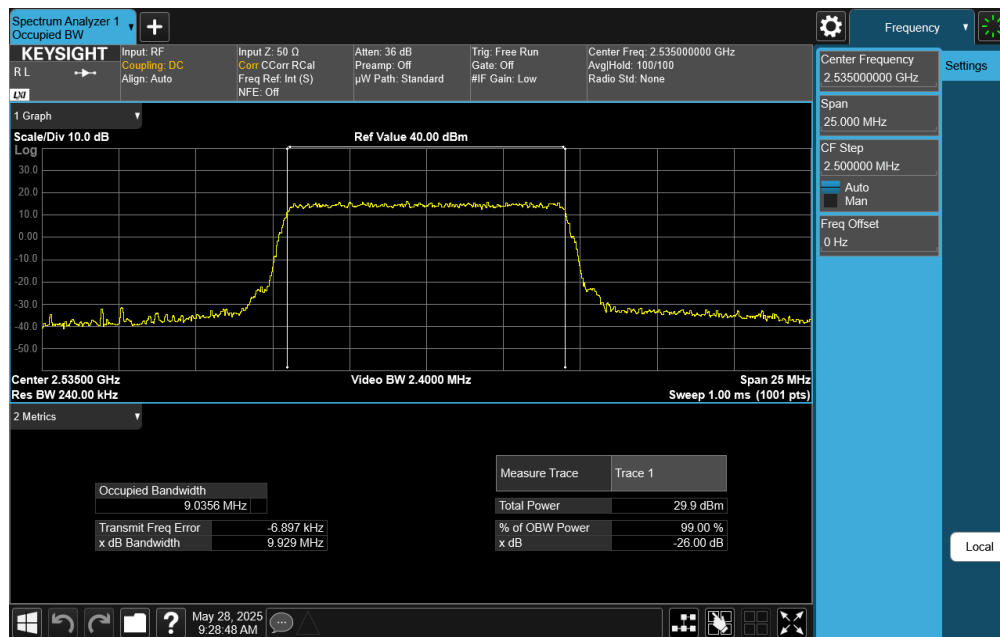
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 64-QAM - Full RB)

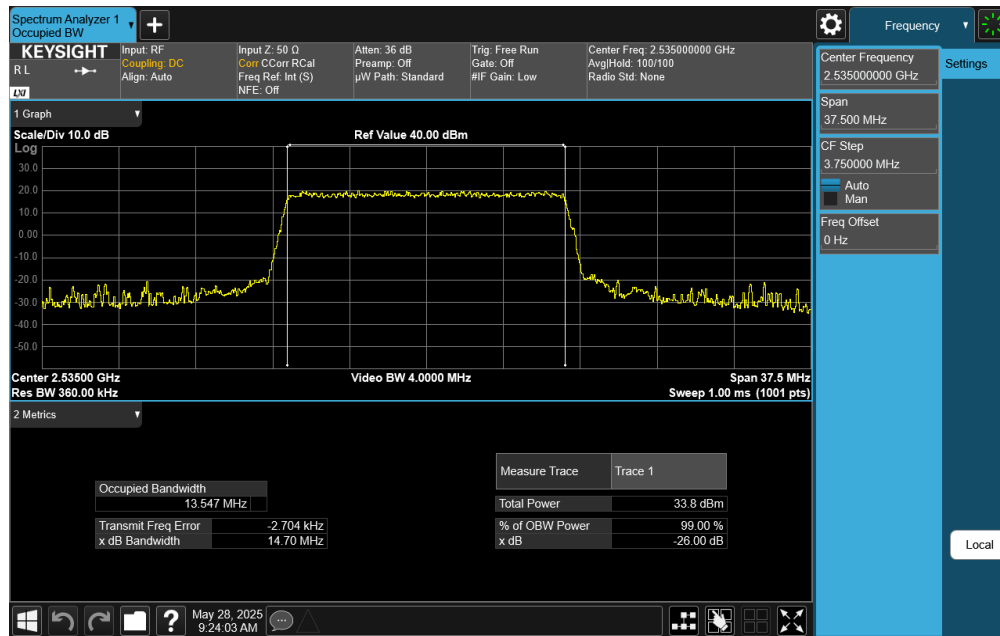


Plot 7-16. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 256-QAM - Full RB)

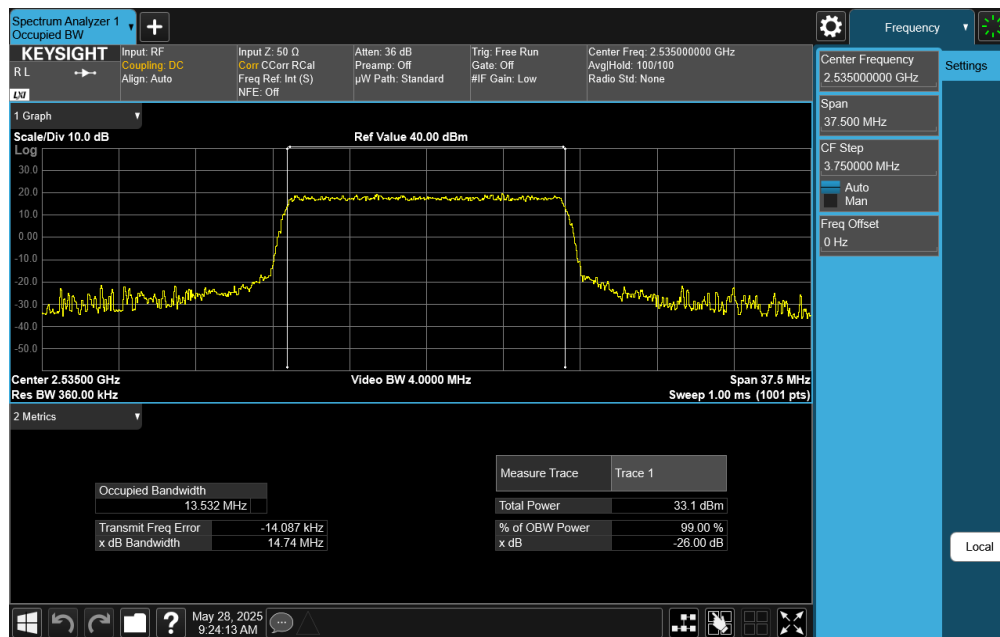
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-17. Occupied Bandwidth Plot (LTE Band 7 - 15MHz QPSK - Full RB)

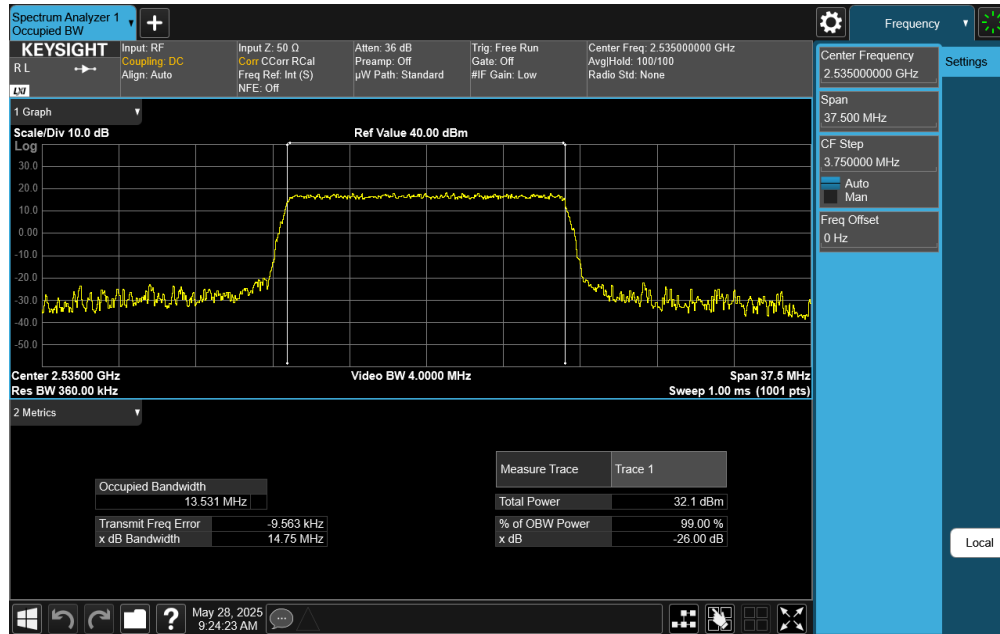


Plot 7-18. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 16-QAM - Full RB)

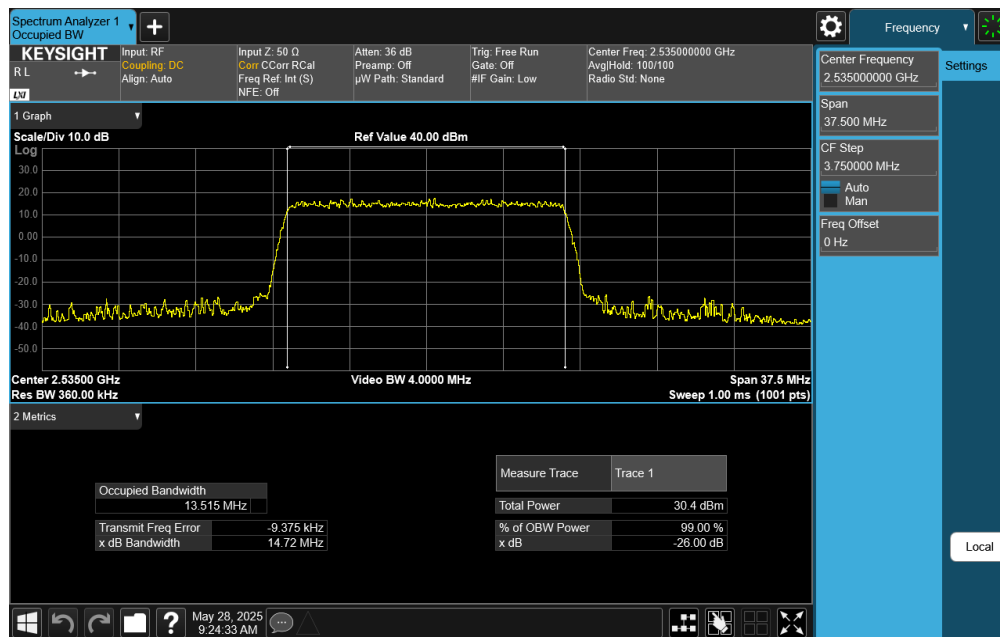
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Plot 7-19. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 64-QAM - Full RB)

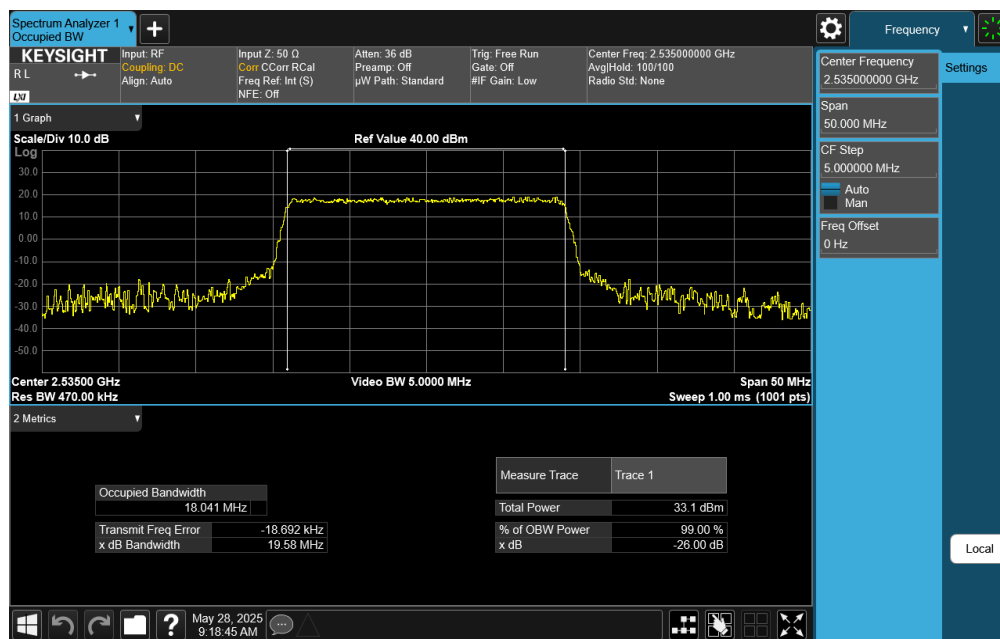
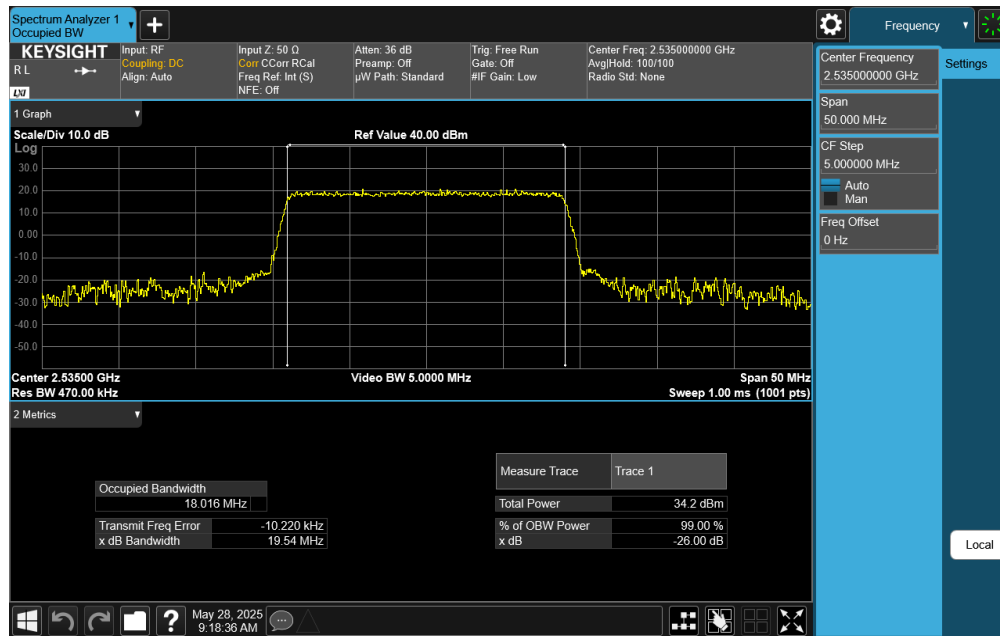


Plot 7-20. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 256-QAM - Full RB)

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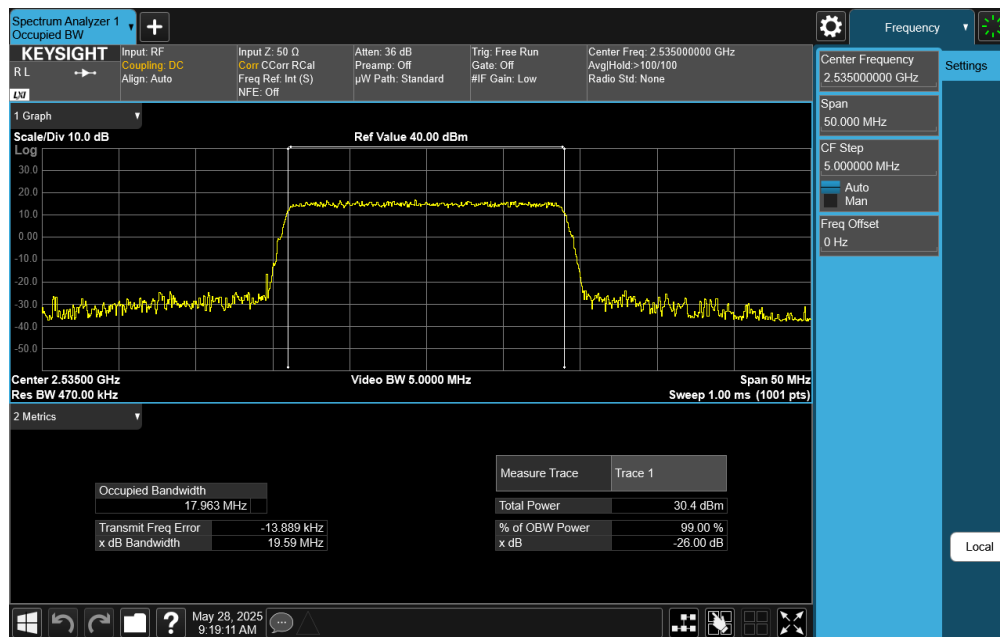
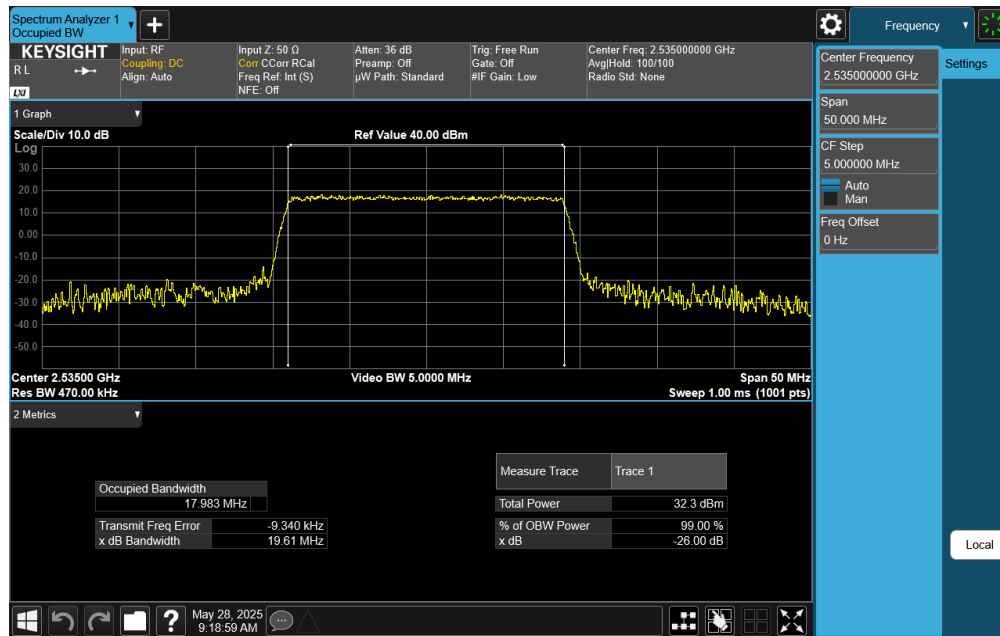
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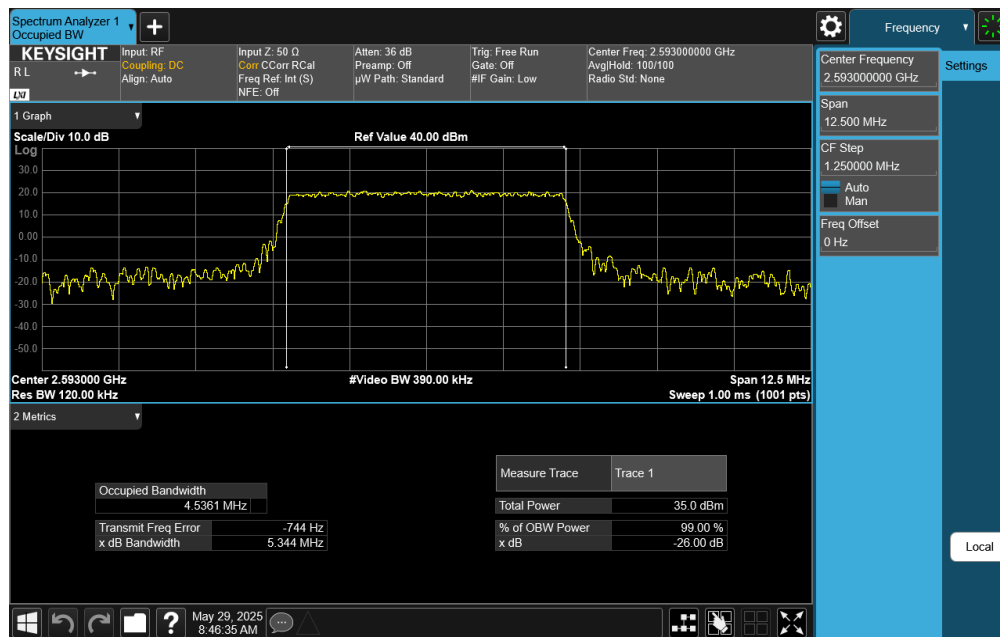
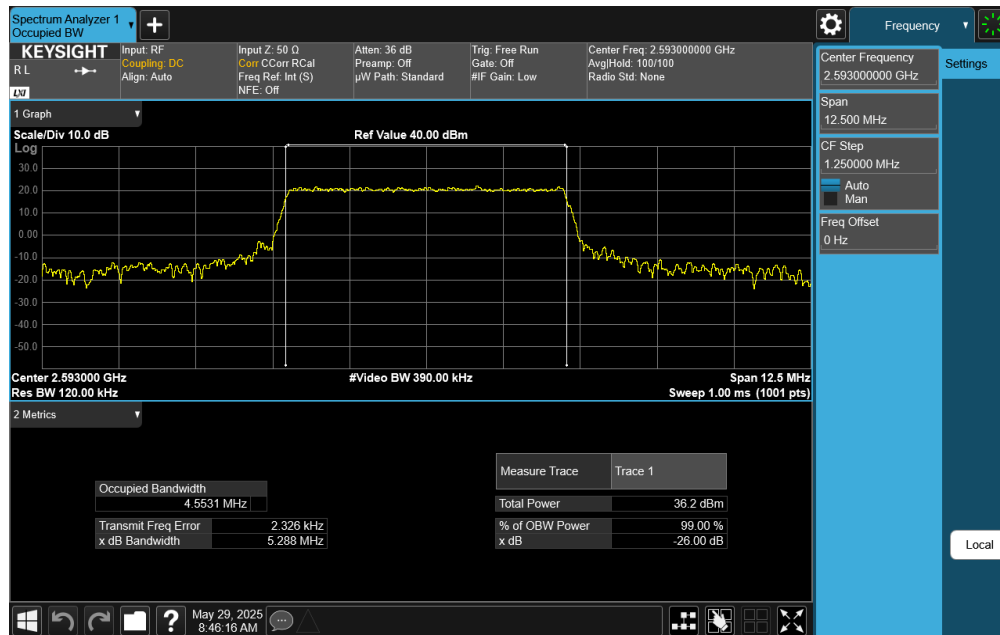


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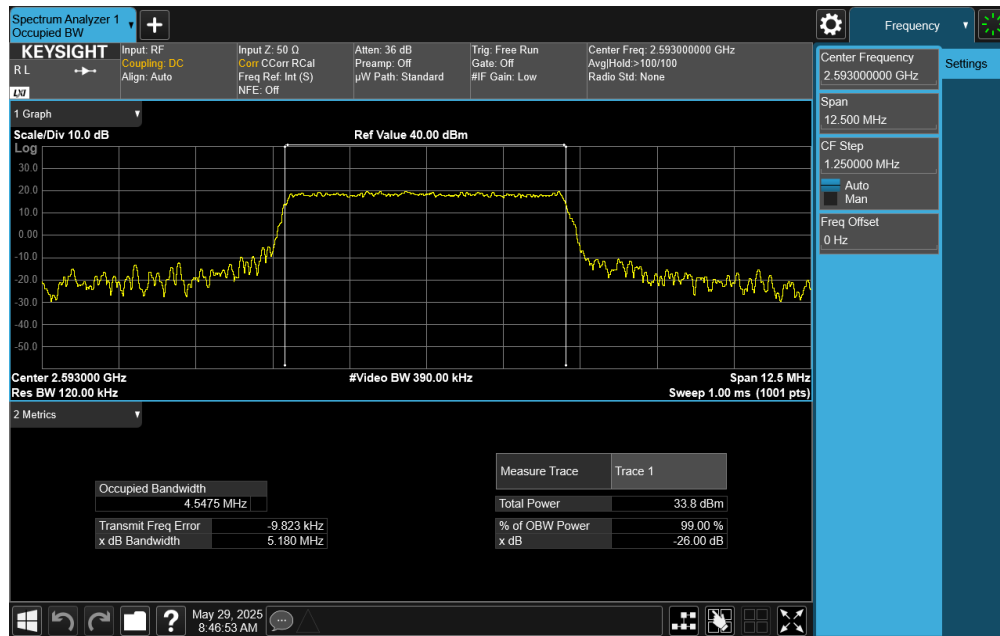
LTE Band 41



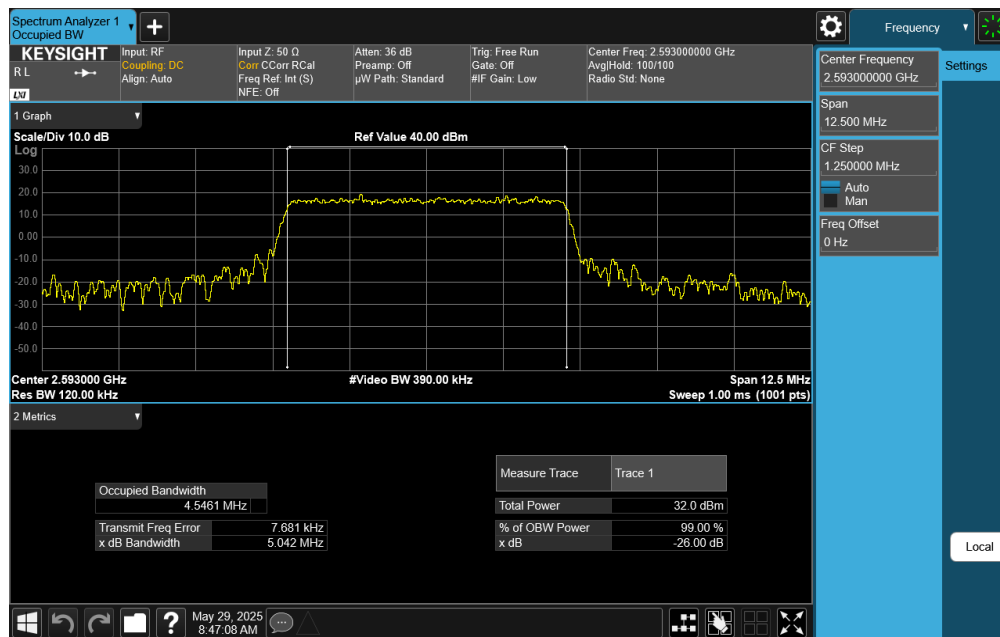
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Plot 7-27. Occupied Bandwidth Plot (LTE Band 41 - 5MHz 64-QAM - Full RB)

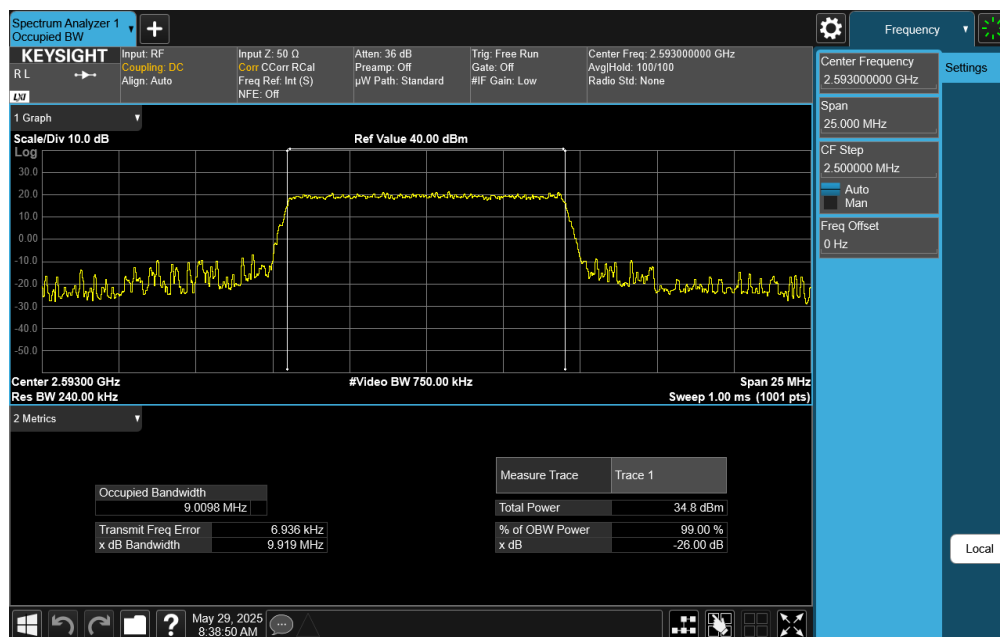
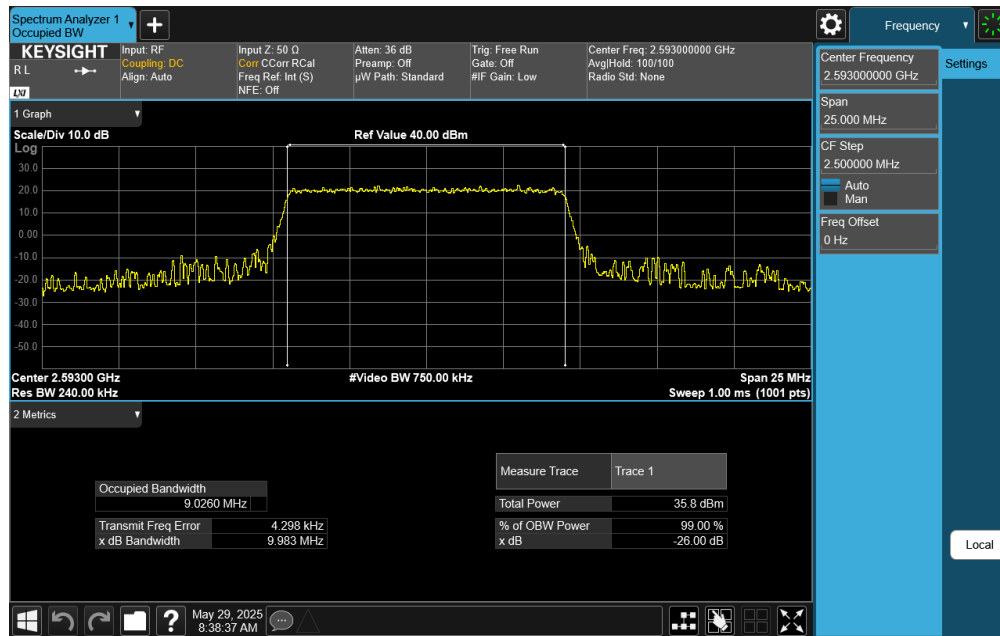


Plot 7-28. Occupied Bandwidth Plot (LTE Band 41 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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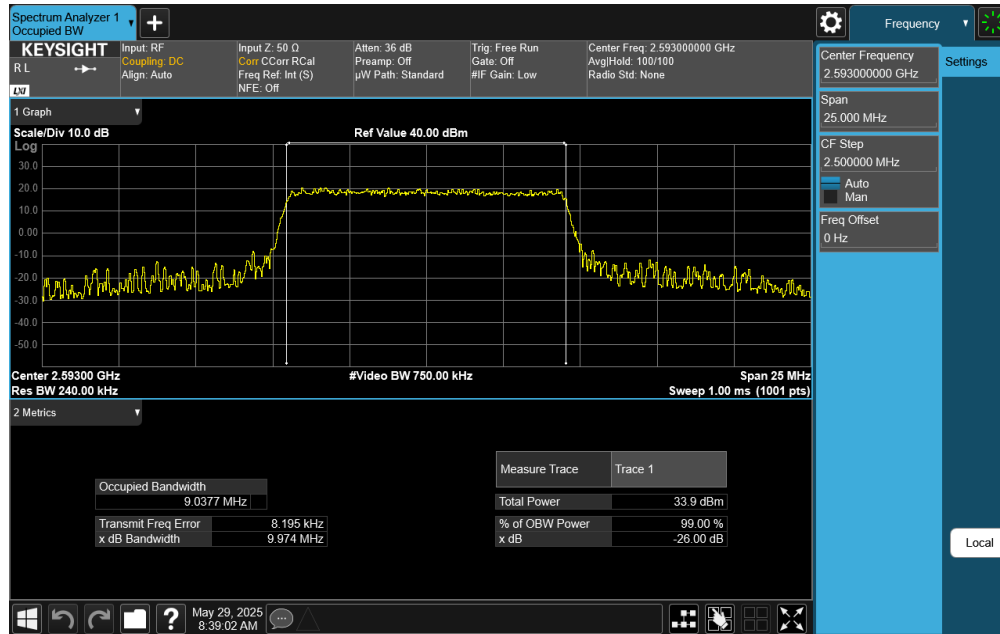
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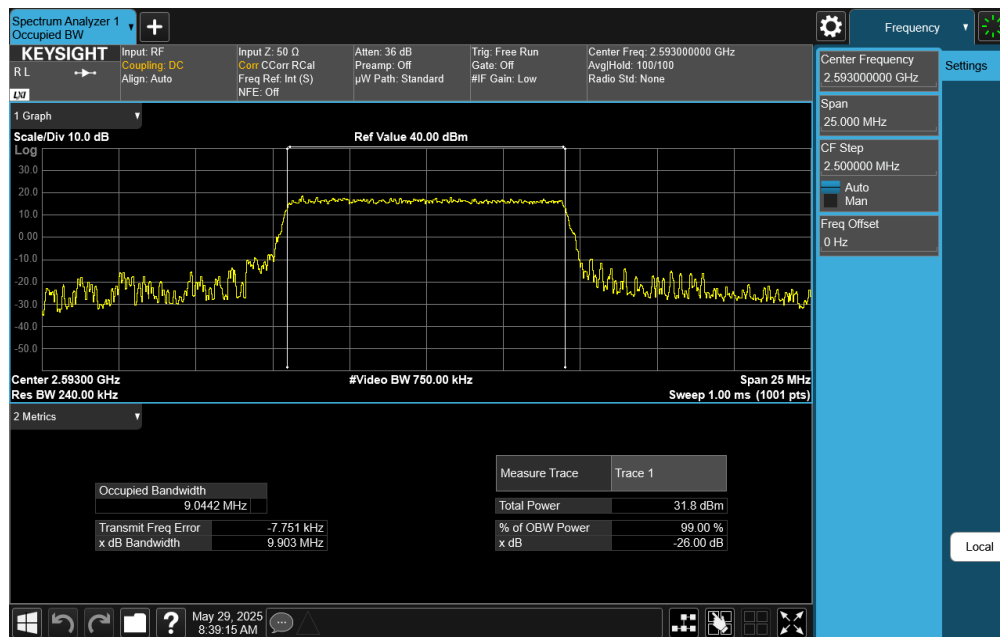
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Plot 7-31. Occupied Bandwidth Plot (LTE Band 41 - 10MHz 64-QAM - Full RB)

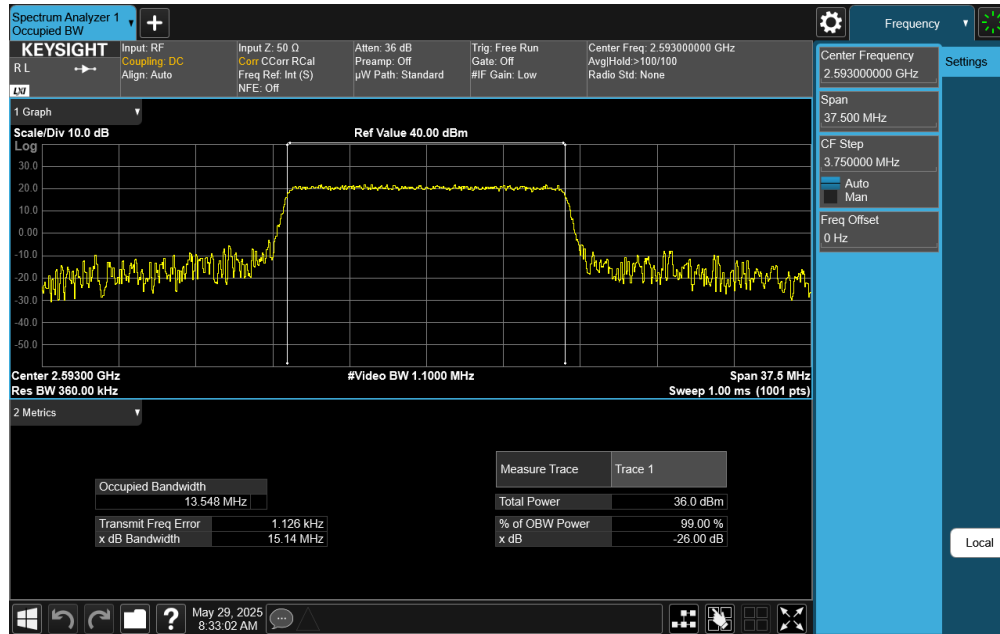


Plot 7-32. Occupied Bandwidth Plot (LTE Band 41 - 10MHz 256-QAM - Full RB)

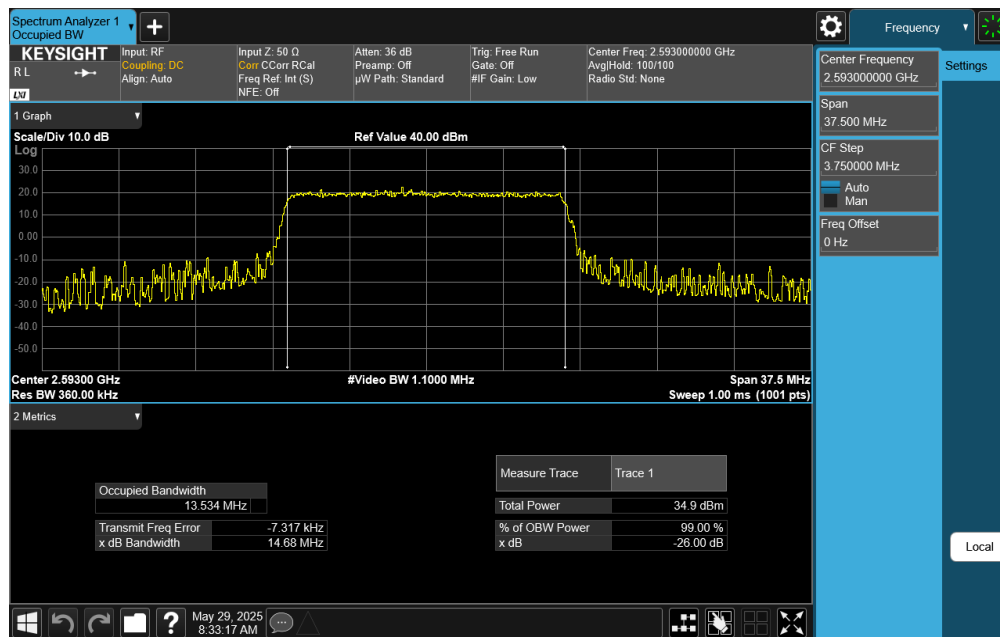
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Plot 7-33. Occupied Bandwidth Plot (LTE Band 41 - 15MHz QPSK - Full RB)

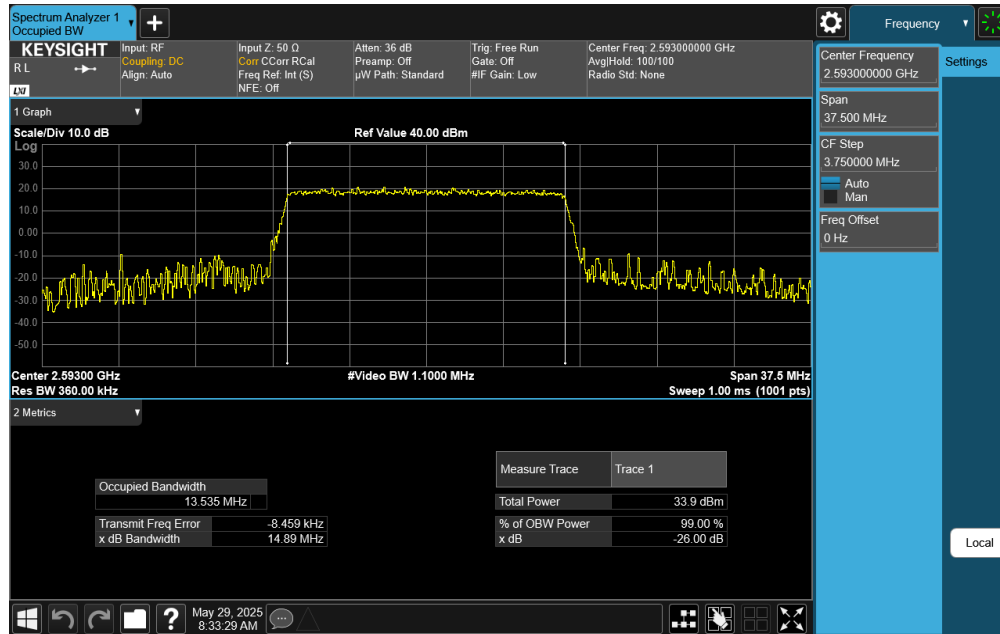


Plot 7-34. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 16-QAM - Full RB)

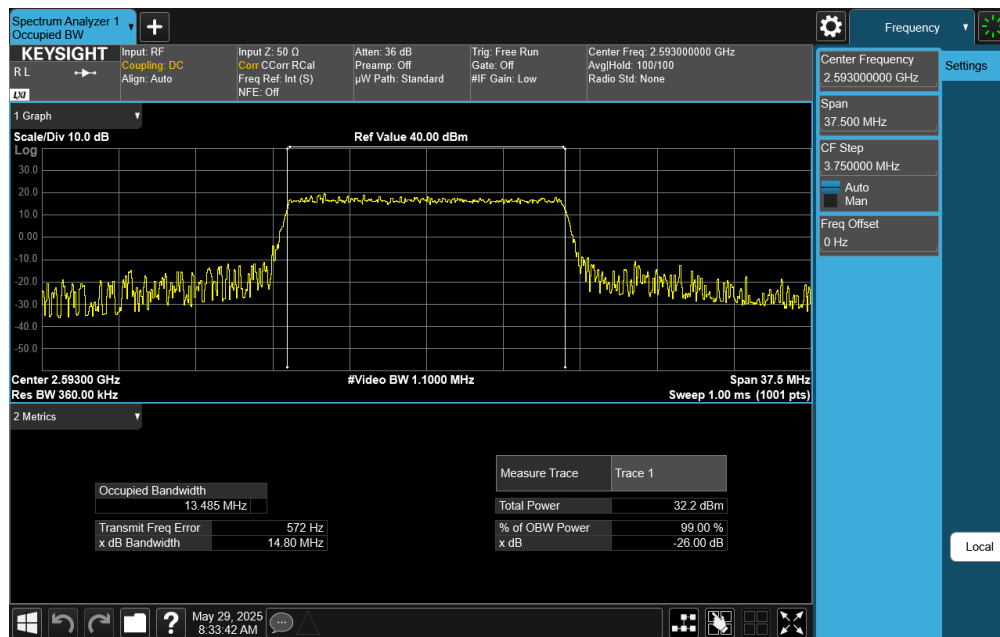
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-35. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 64-QAM - Full RB)

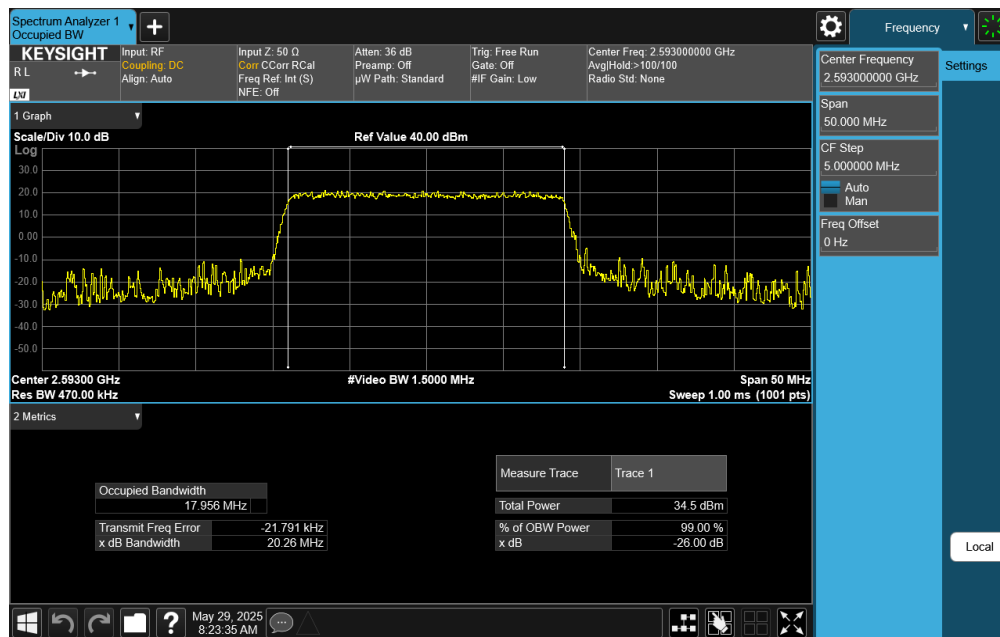
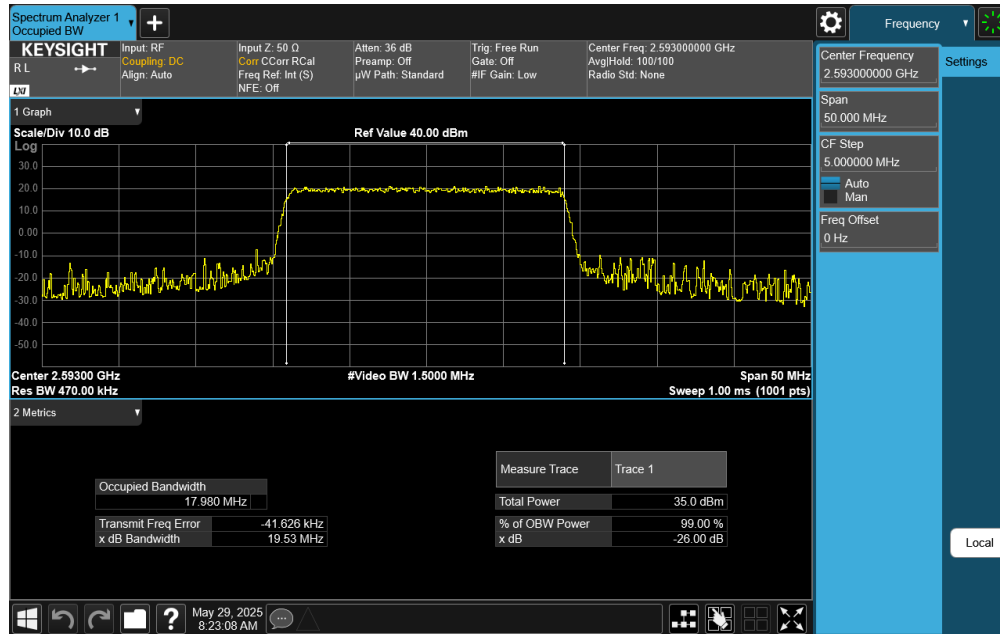


Plot 7-36. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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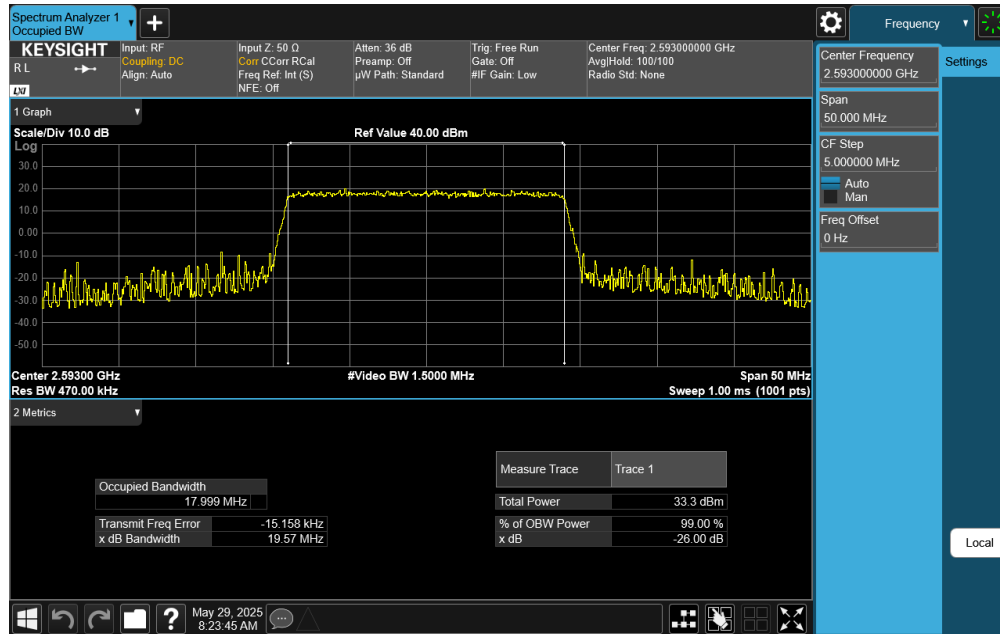
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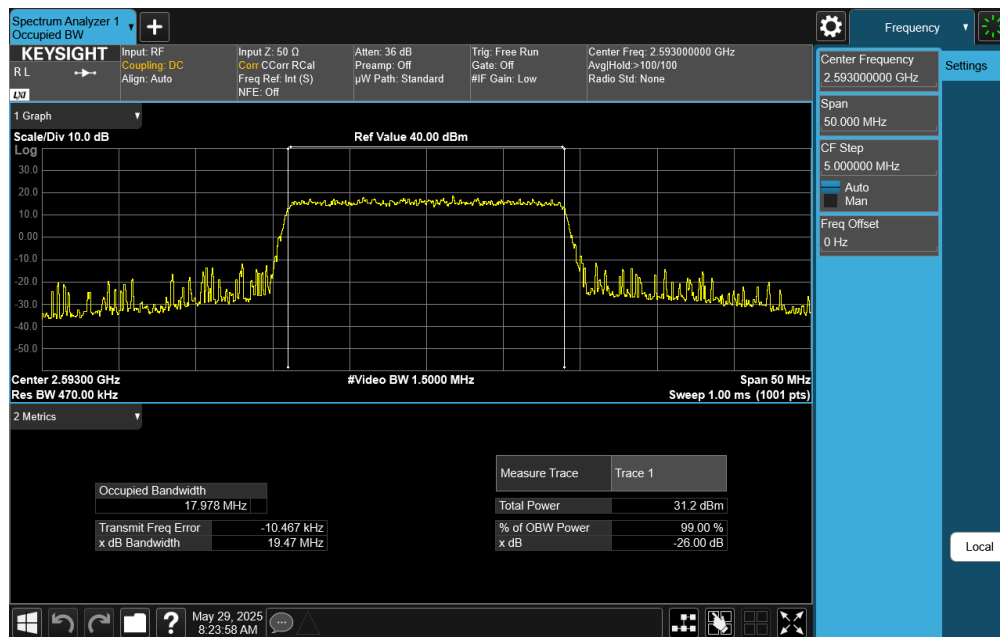
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-39. Occupied Bandwidth Plot (LTE Band 41 - 20MHz 64-QAM - Full RB)



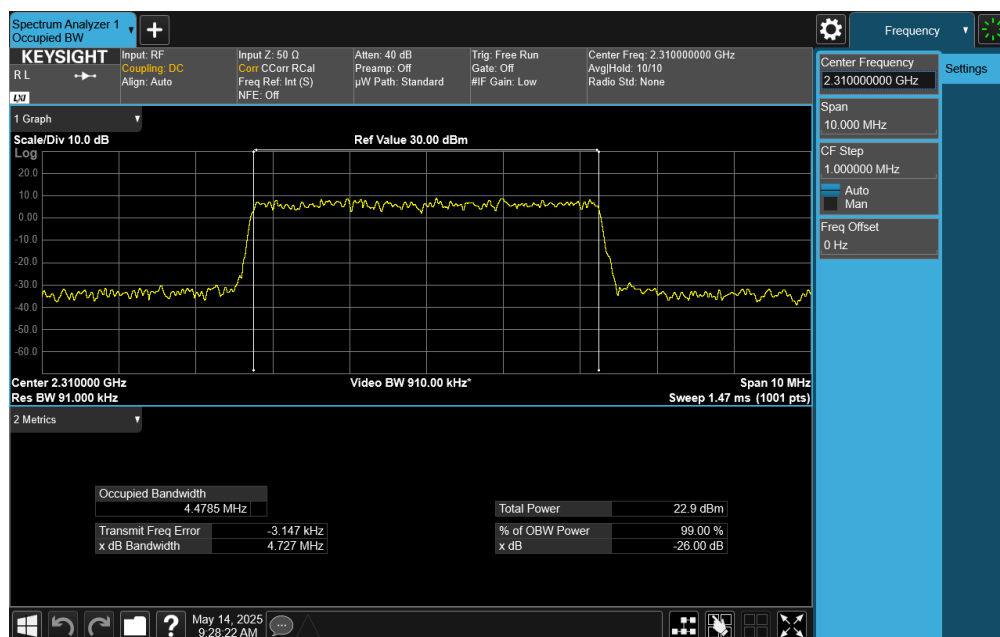
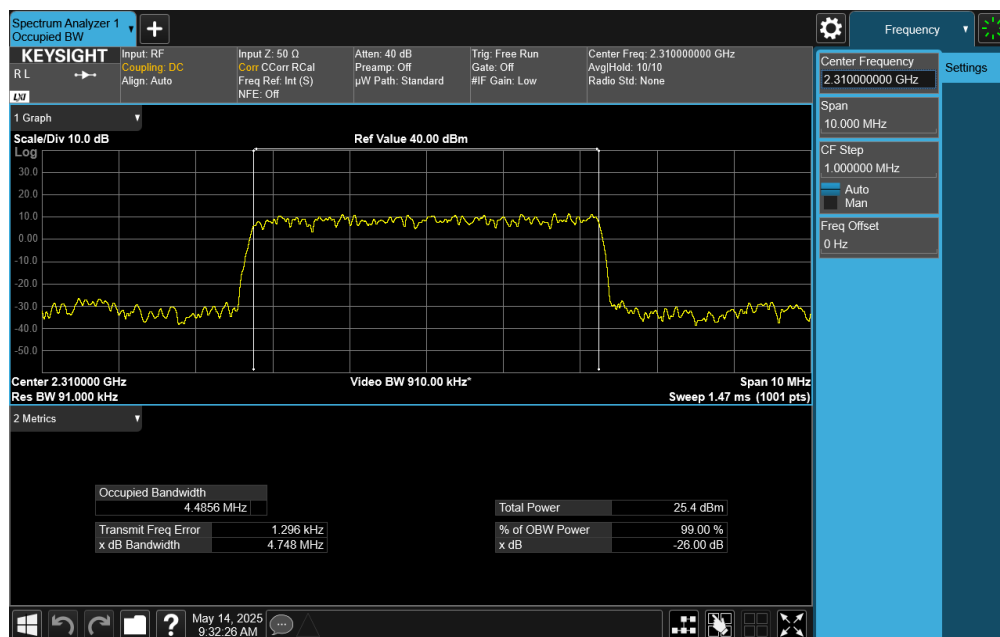
Plot 7-40. Occupied Bandwidth Plot (LTE Band 41 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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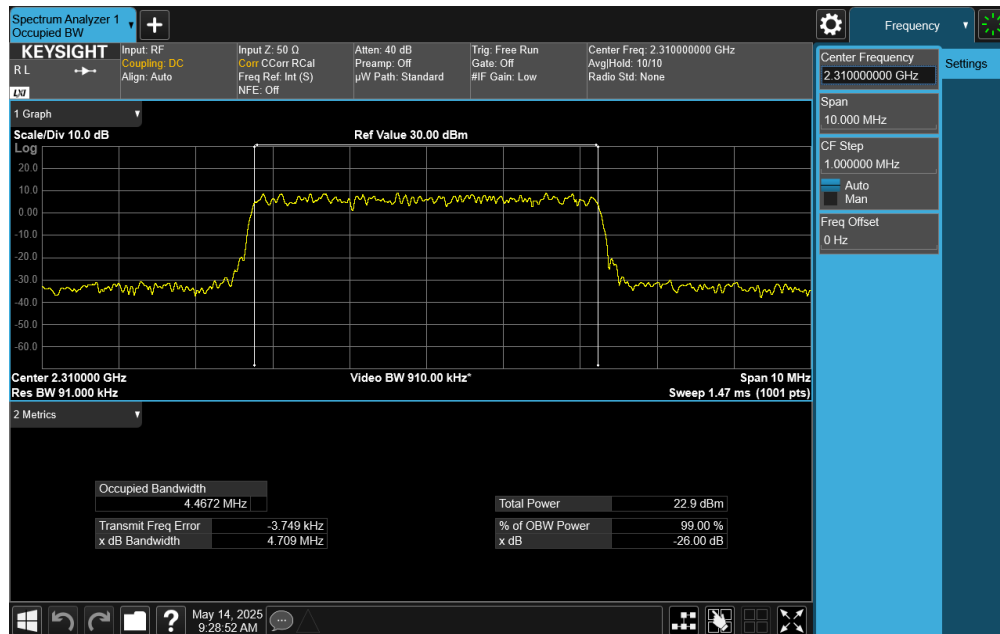
NR Band n30



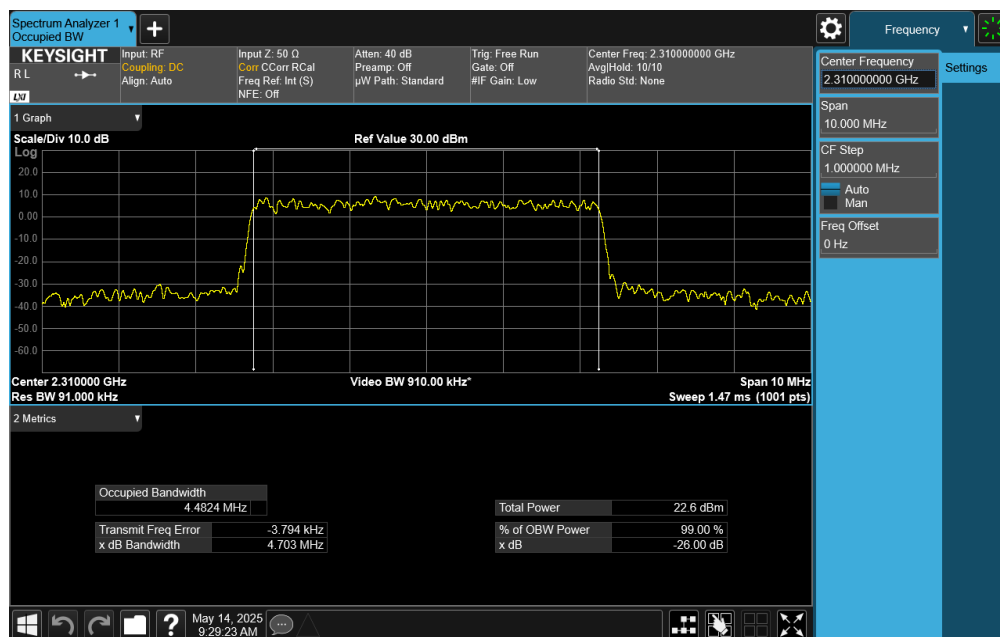
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-43. Occupied Bandwidth Plot (NR Band n30 - 5MHz CP-OFDM 16-QAM - Full RB)

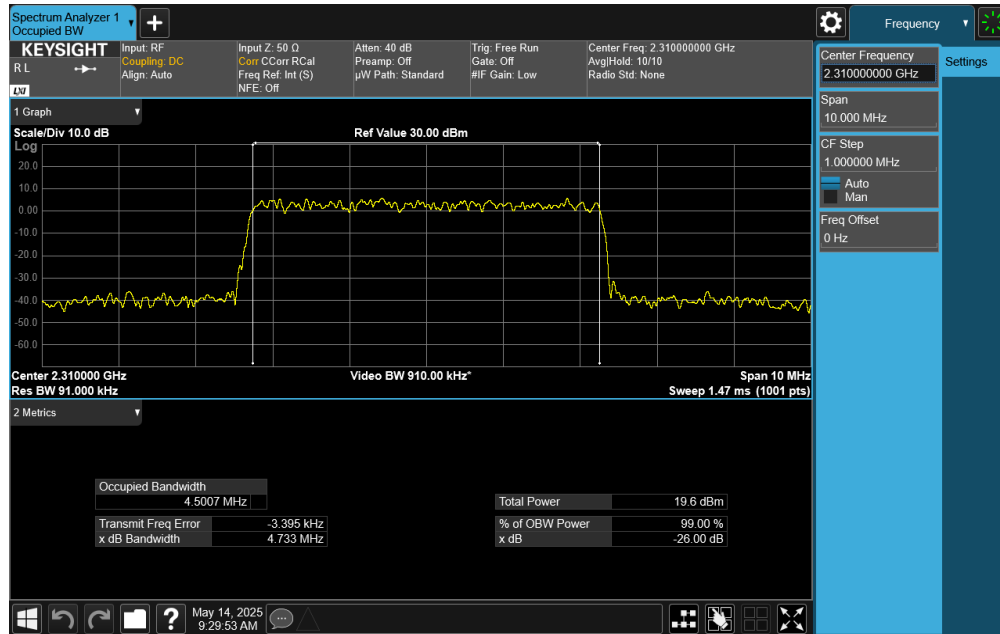


Plot 7-44. Occupied Bandwidth Plot (NR Band n30 - 5MHz CP-OFDM 64-QAM - Full RB)

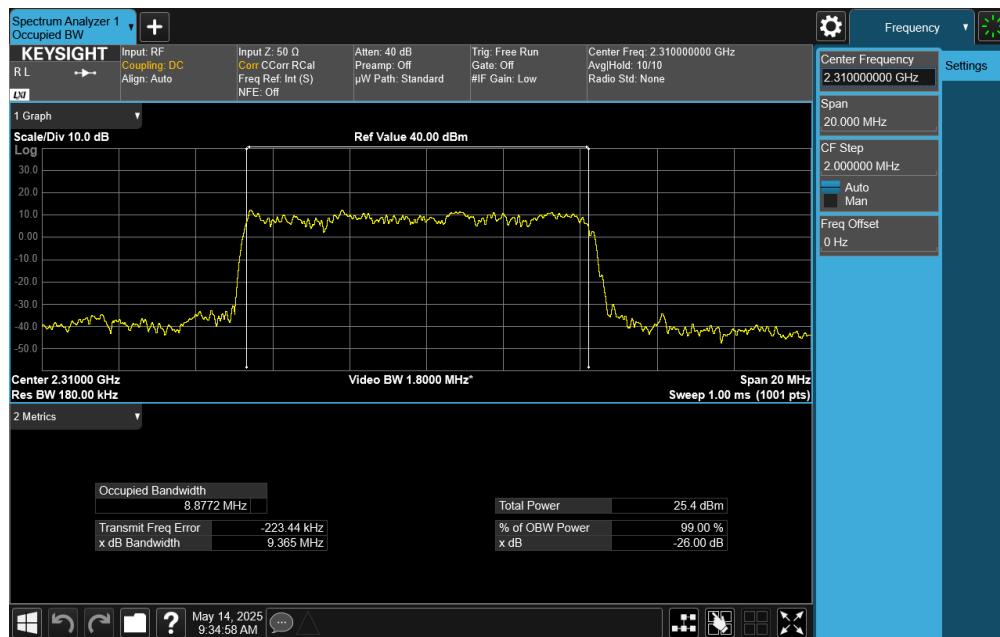
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-45. Occupied Bandwidth Plot (NR Band n30 - 5MHz CP-OFDM 256-QAM - Full RB)

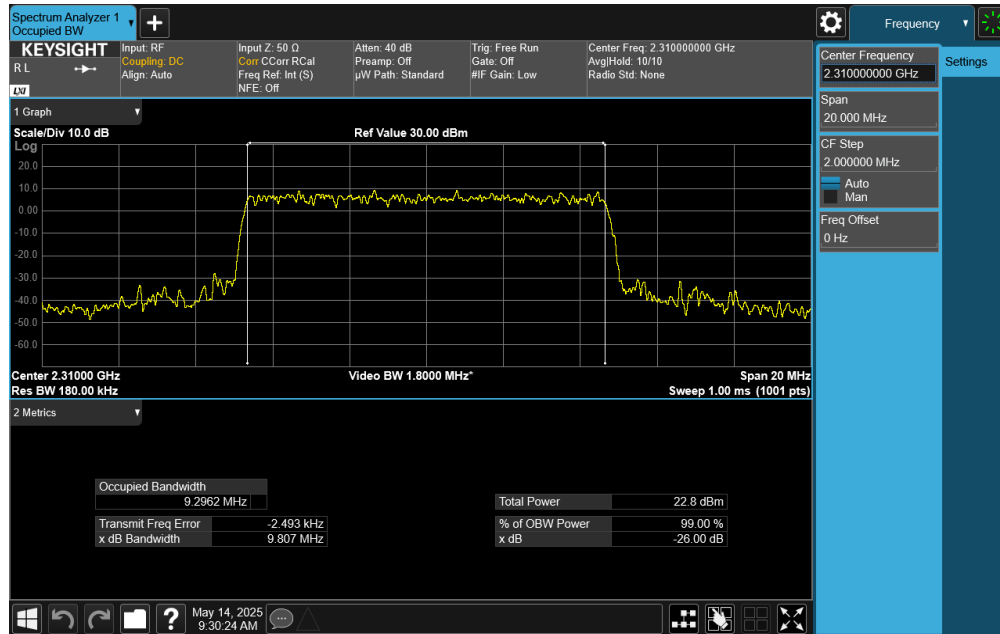


Plot 7-46. Occupied Bandwidth Plot (NR Band n30 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

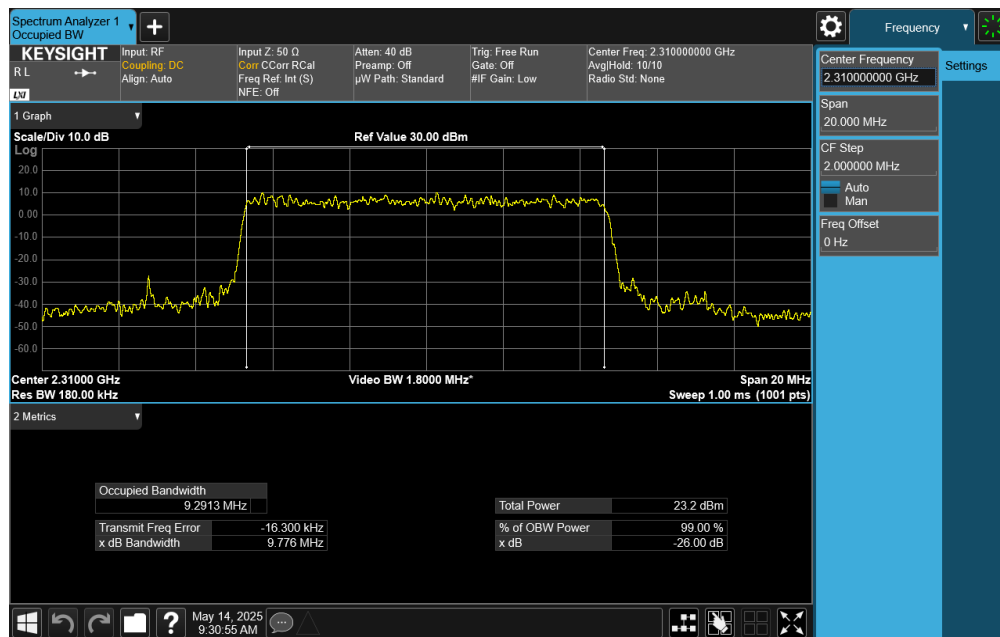
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-47. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM QPSK - Full RB)

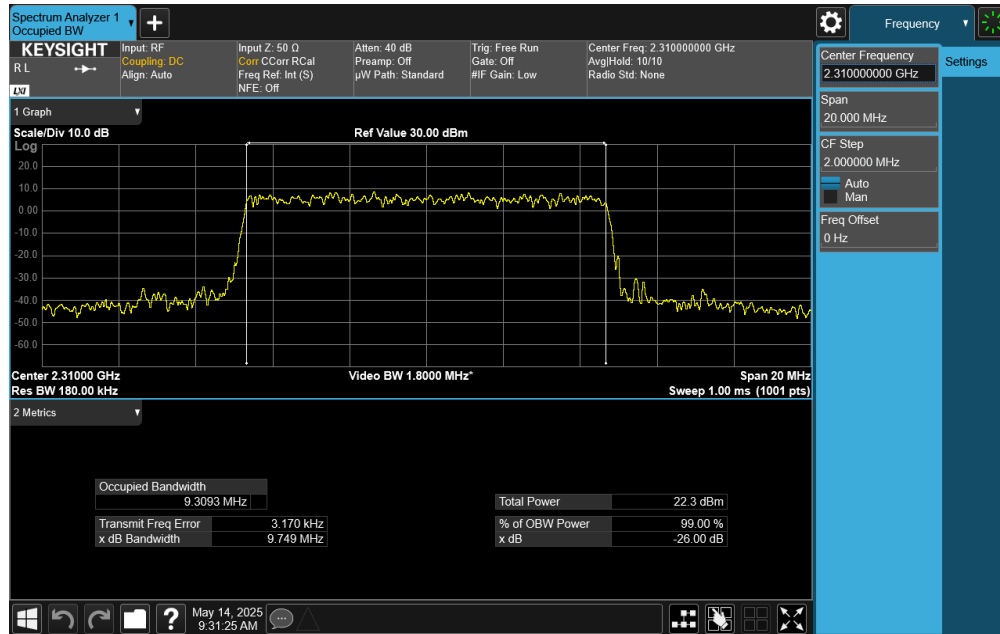


Plot 7-48. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 16-QAM - Full RB)

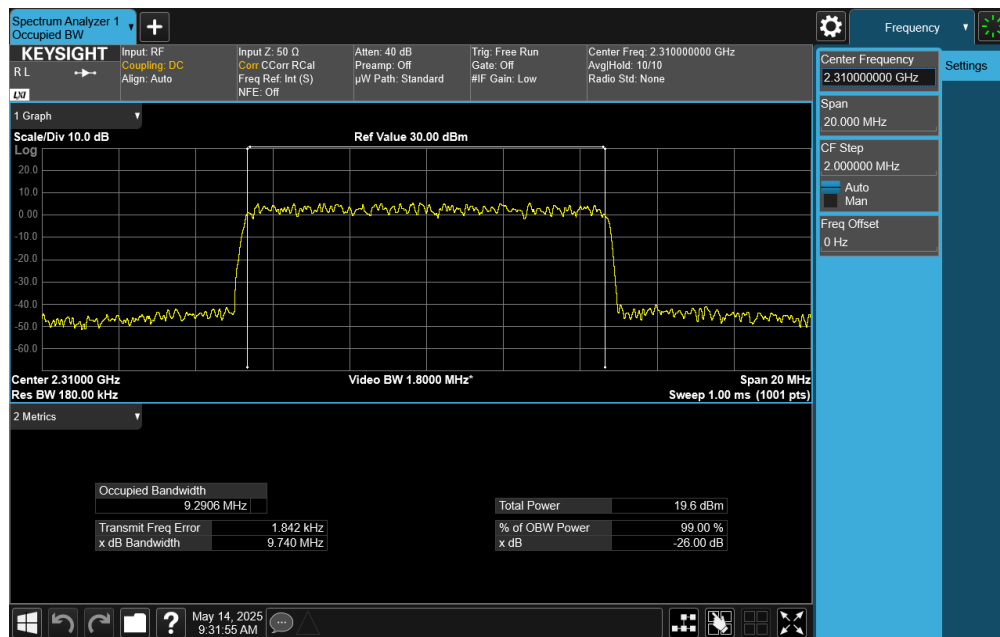
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-49. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 64-QAM - Full RB)



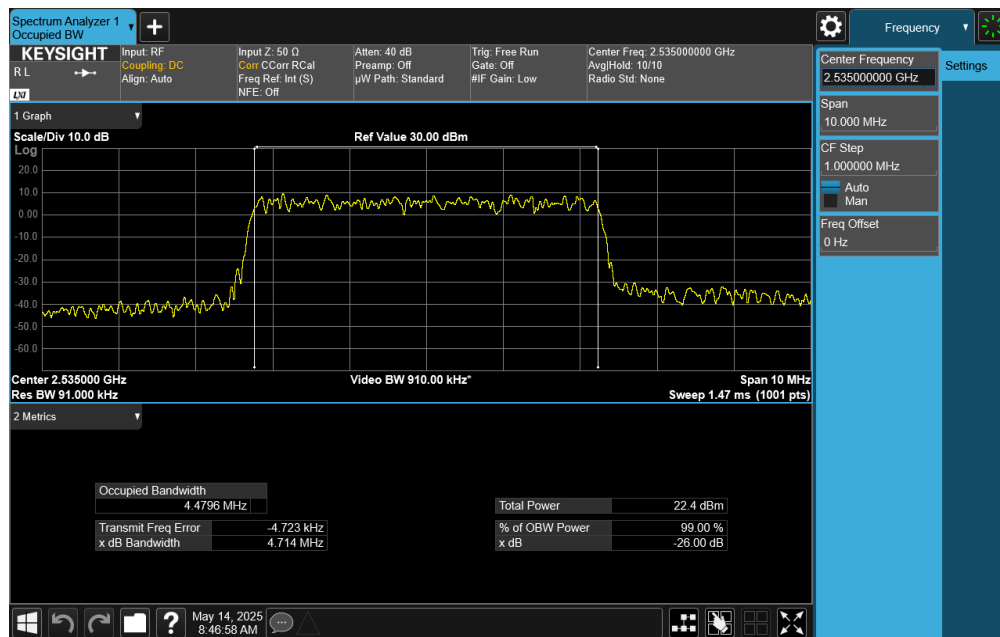
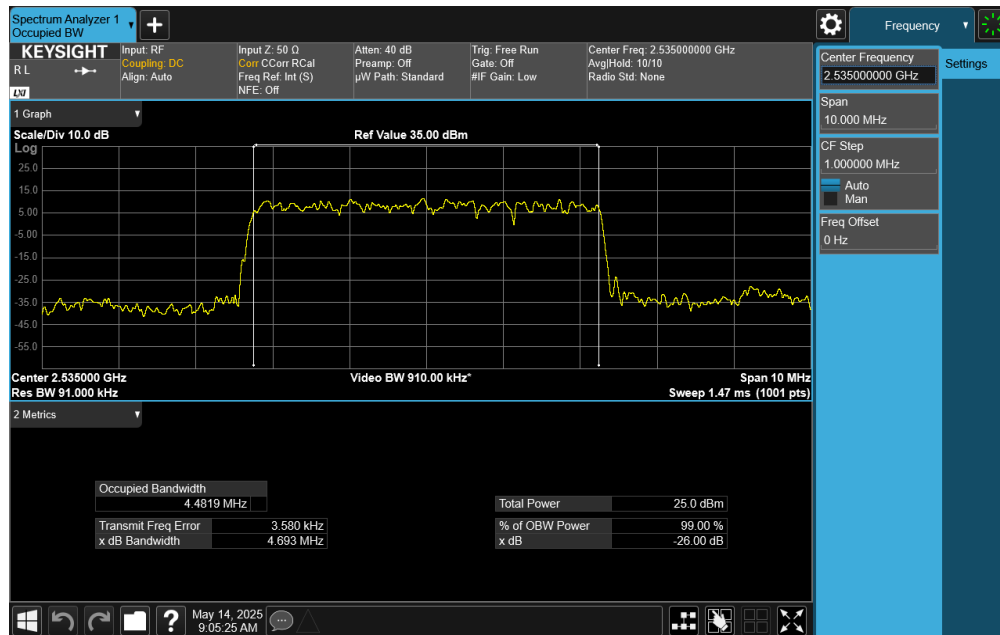
Plot 7-50. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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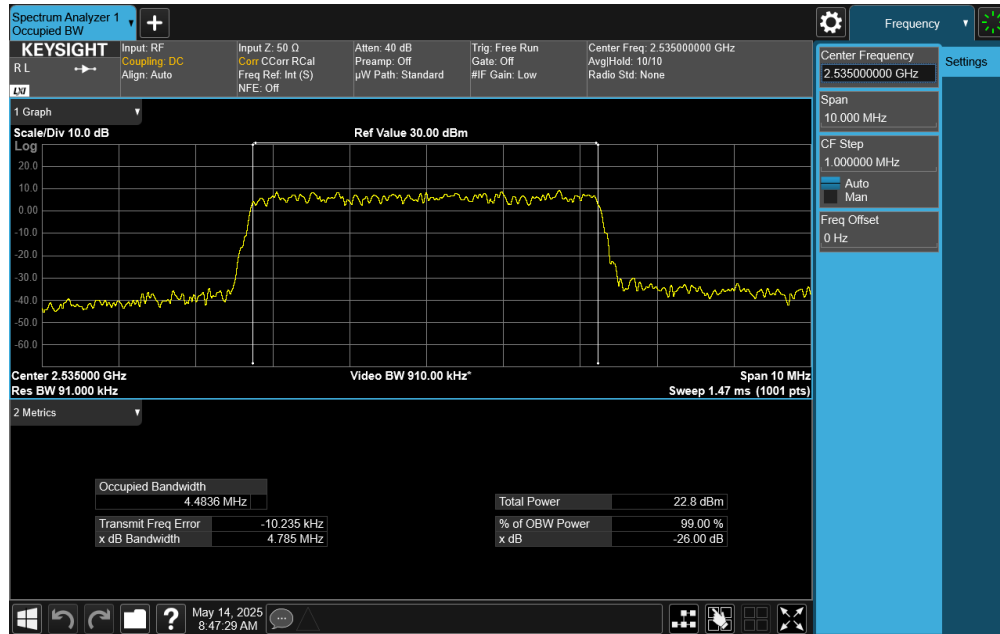
NR Band n7



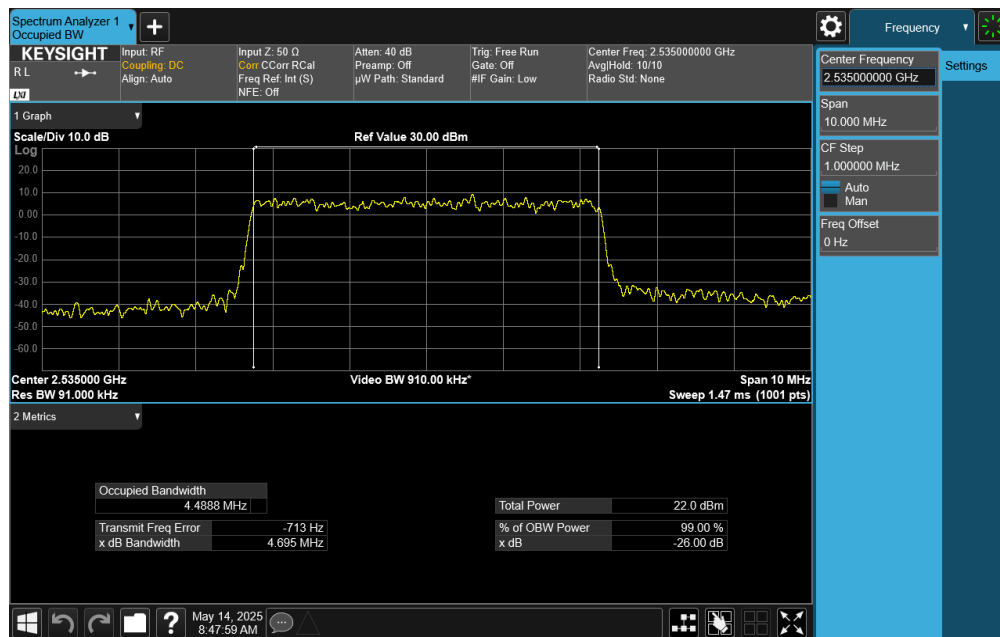
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-53. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 16-QAM - Full RB)

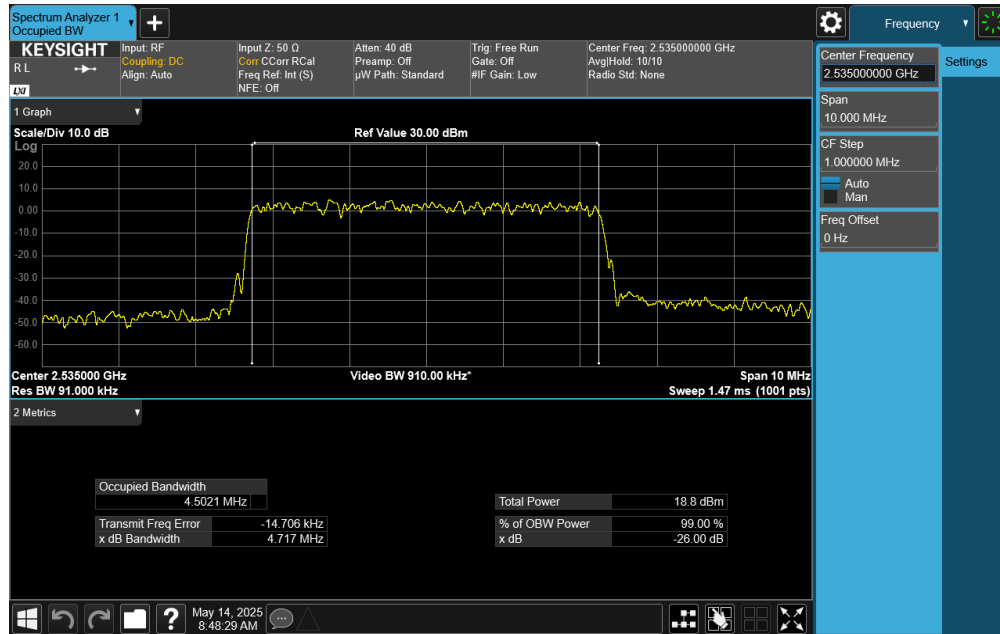


Plot 7-54. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 64-QAM - Full RB)

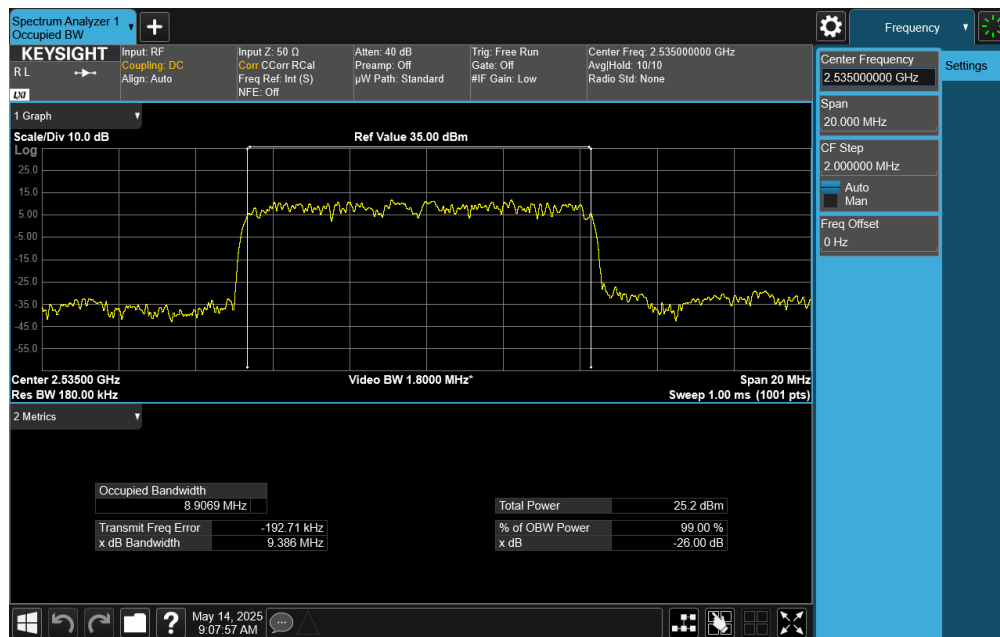
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-55. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 256-QAM - Full RB)

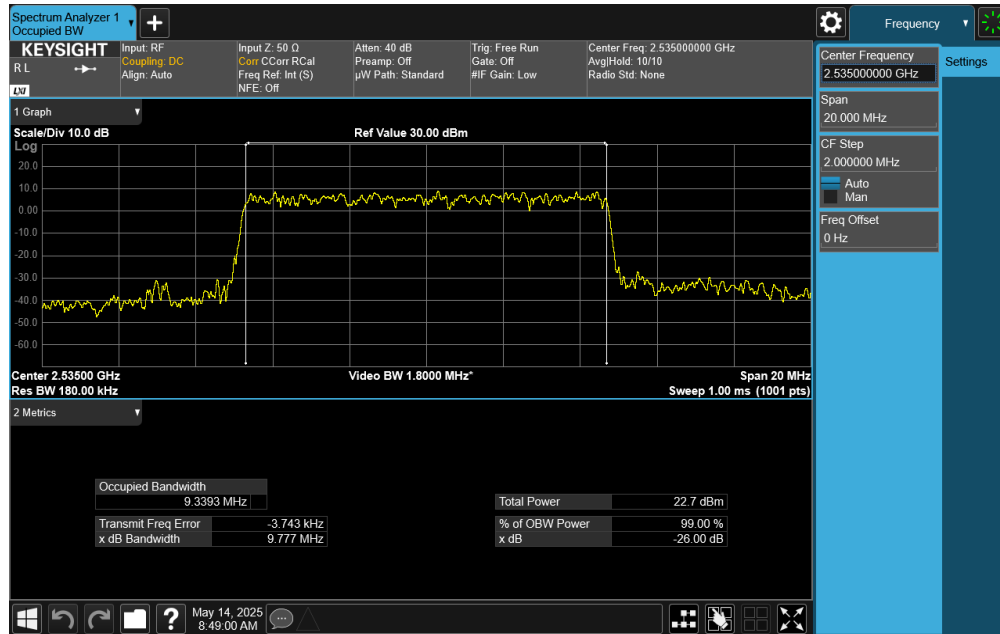


Plot 7-56. Occupied Bandwidth Plot (NR Band n7 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

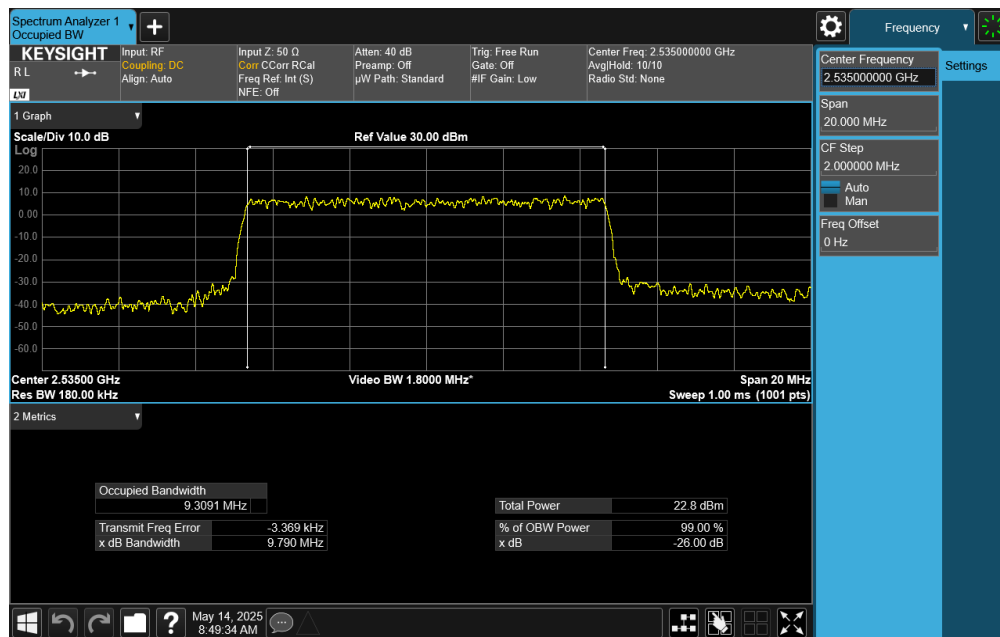
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-57. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM QPSK - Full RB)

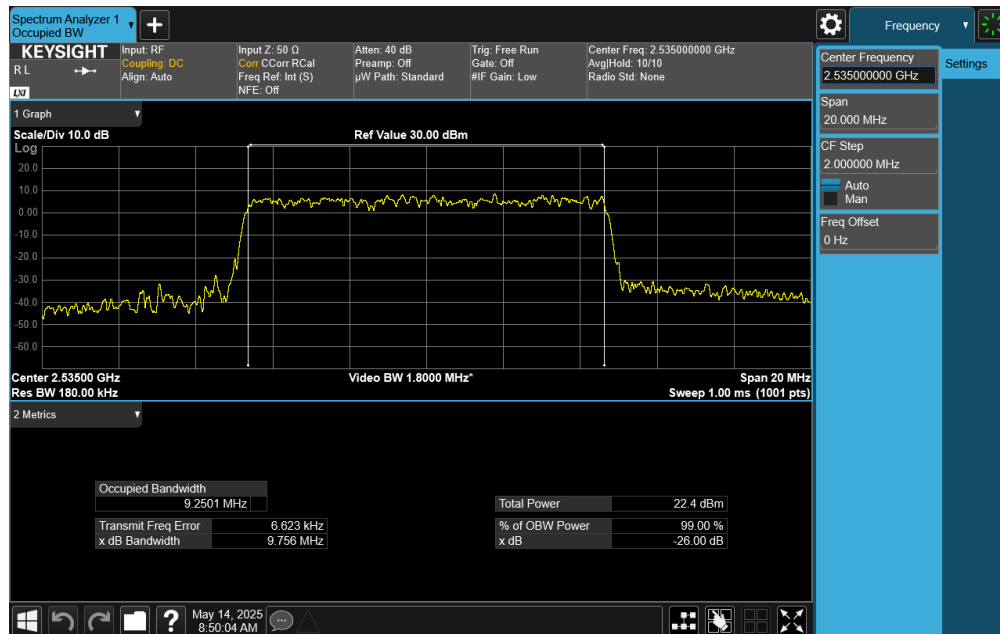


Plot 7-58. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 16-QAM - Full RB)

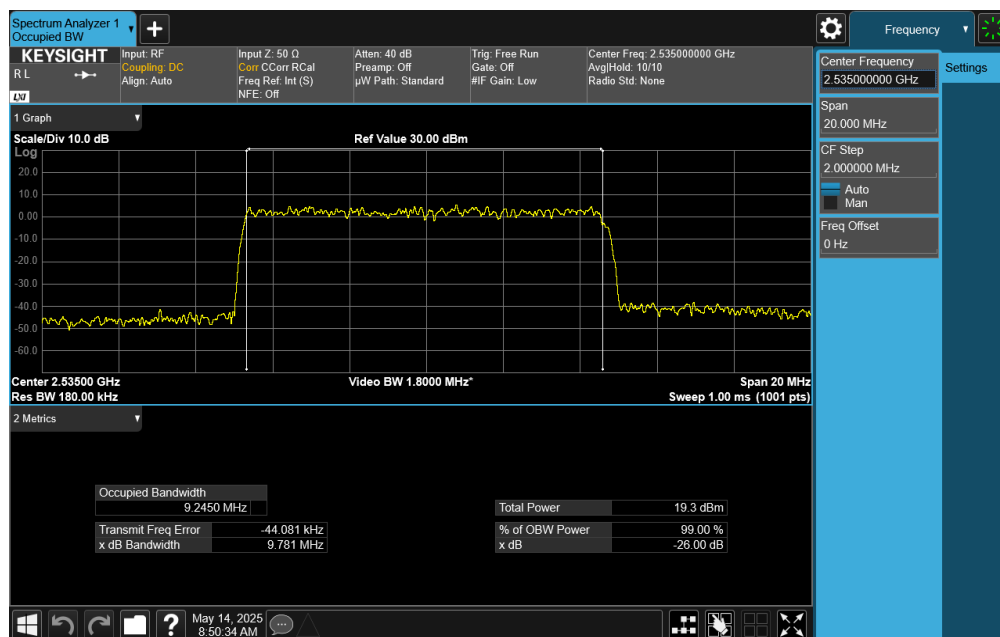
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-59. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 64-QAM - Full RB)

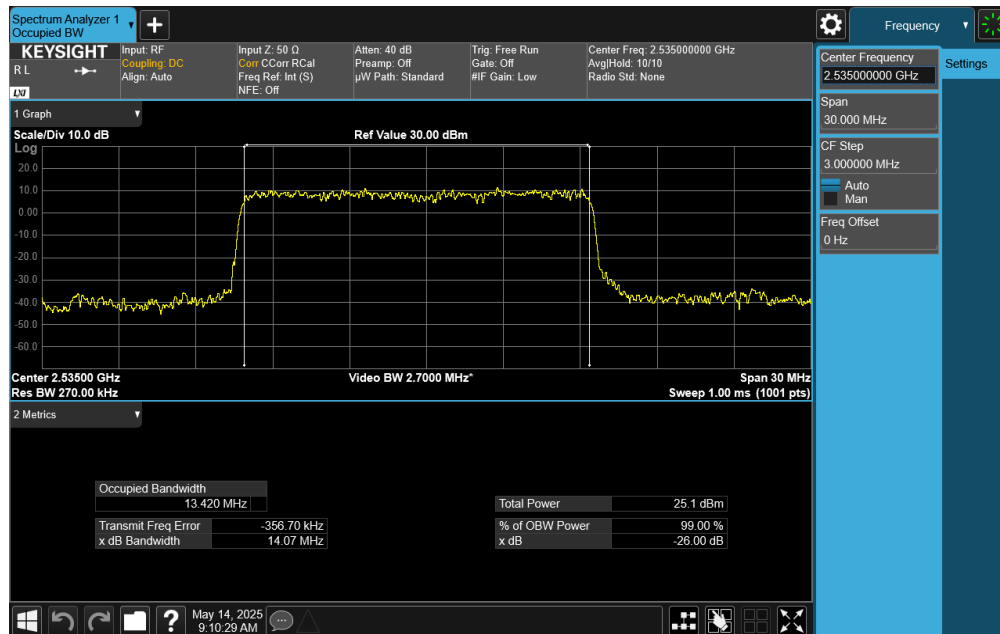


Plot 7-60. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 256-QAM - Full RB)

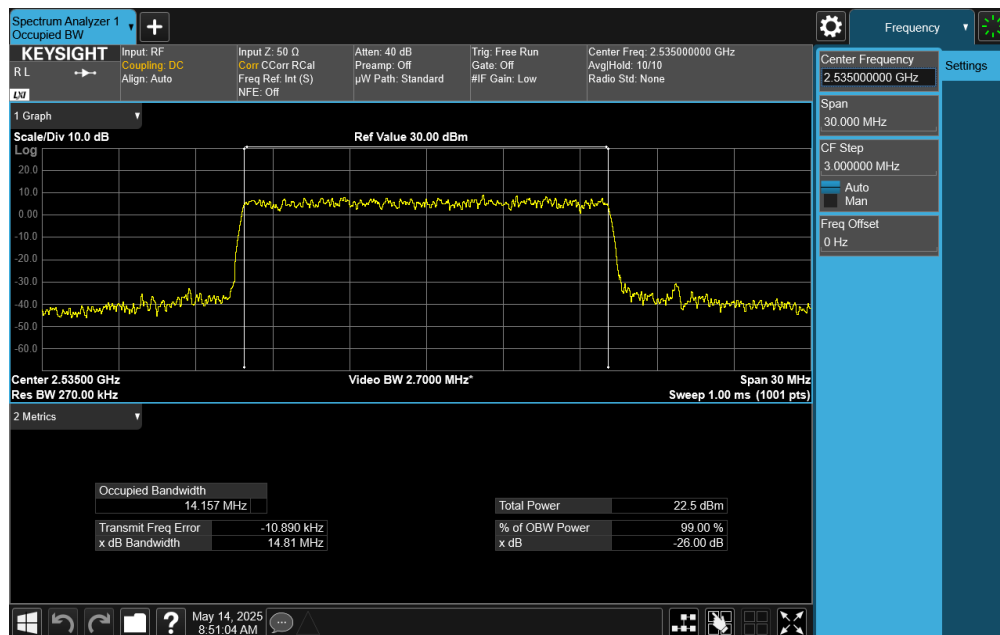
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-61. Occupied Bandwidth Plot (NR Band n7 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

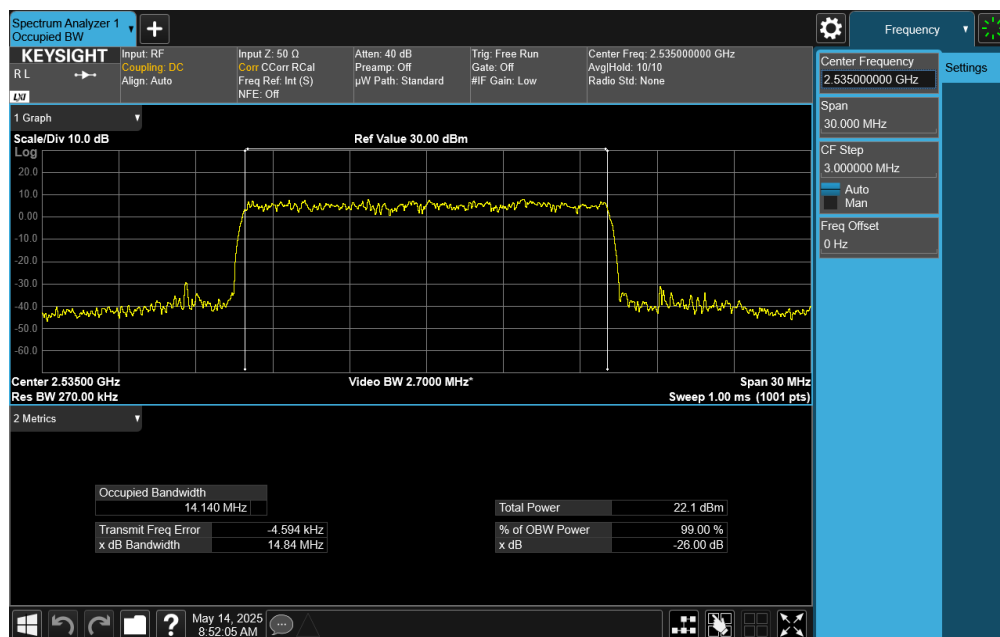
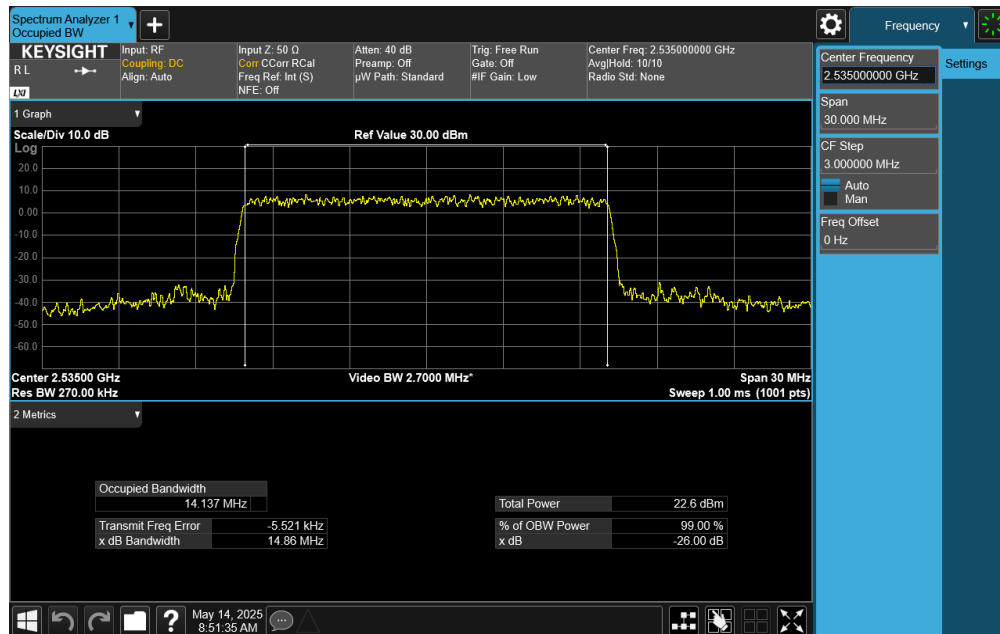


Plot 7-62. Occupied Bandwidth Plot (NR Band n7 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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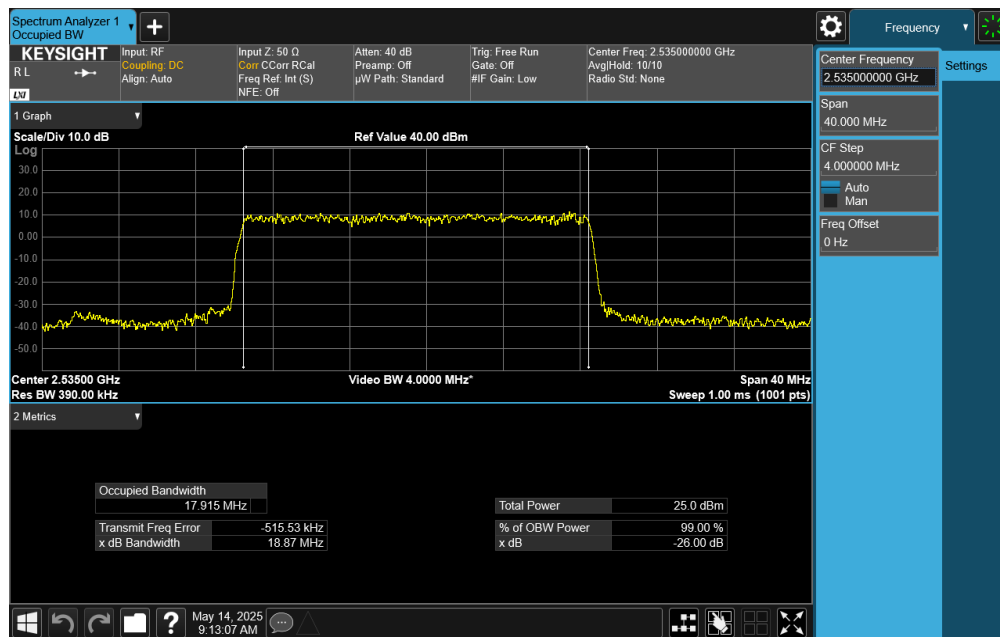
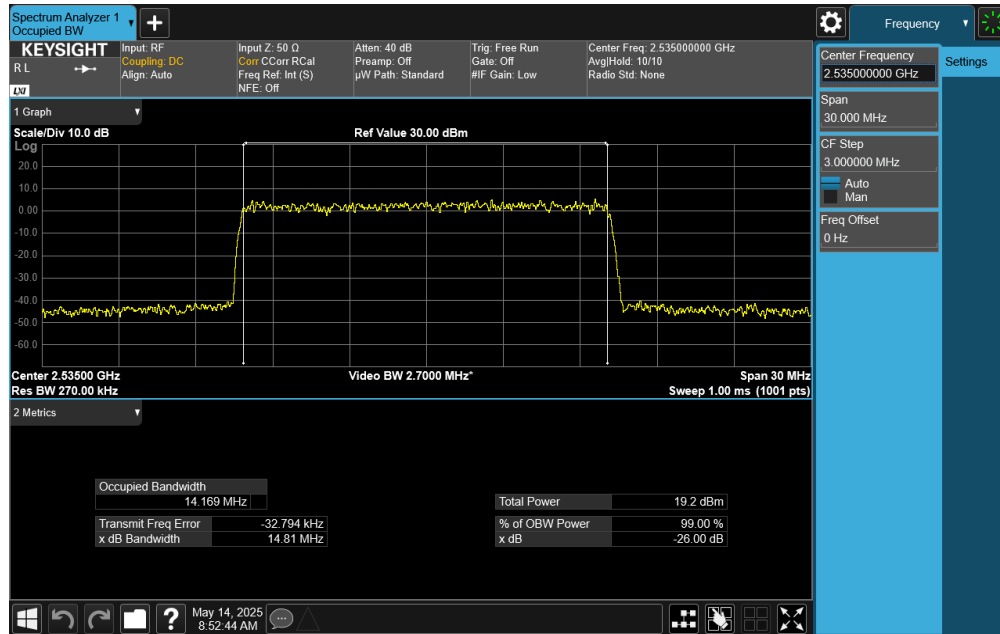
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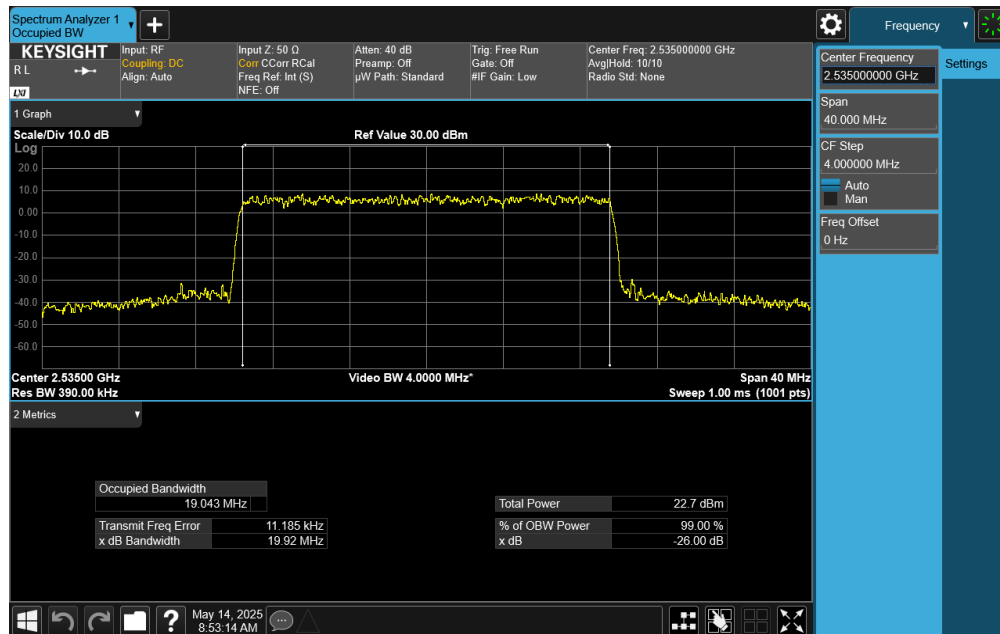
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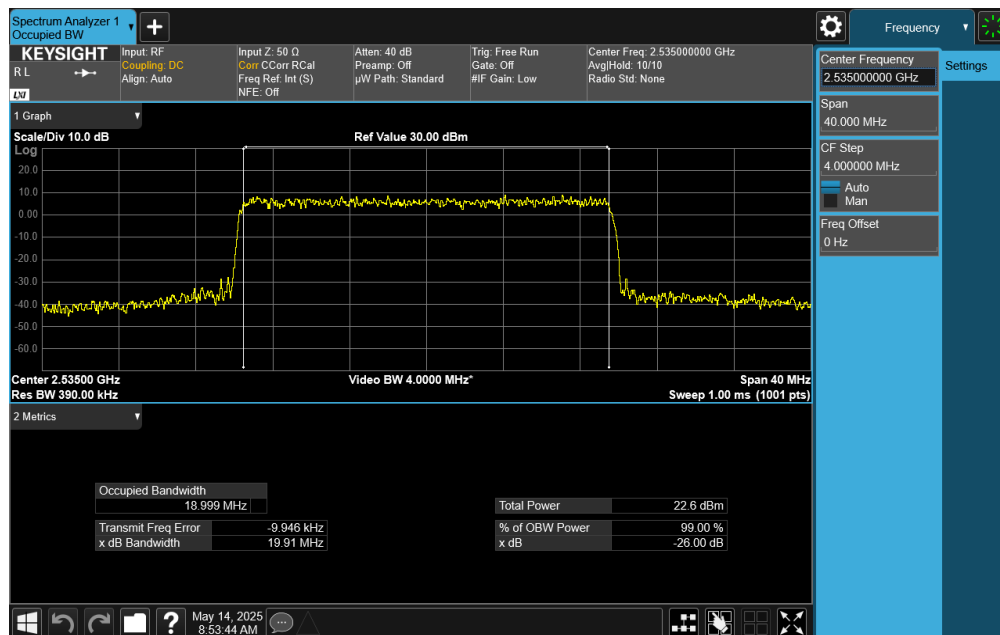
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-67. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM QPSK - Full RB)

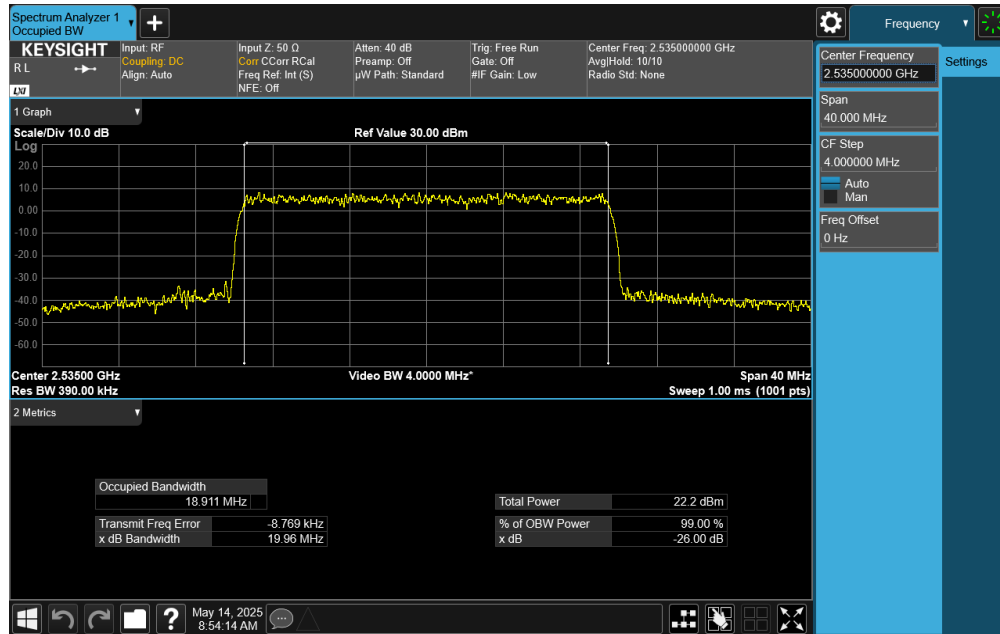


Plot 7-68. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 16-QAM - Full RB)

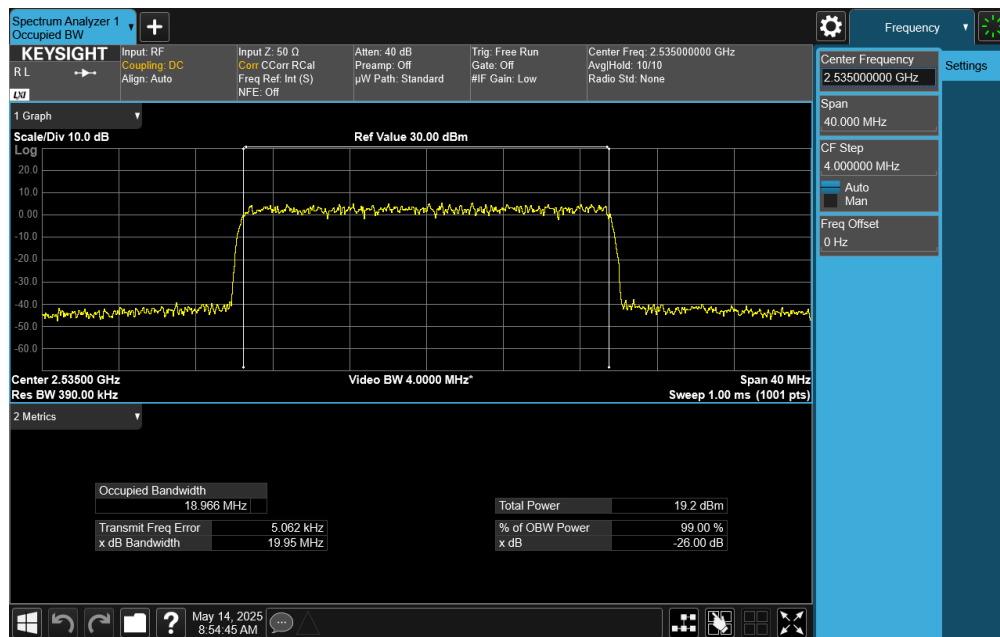
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-69. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 64-QAM - Full RB)



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

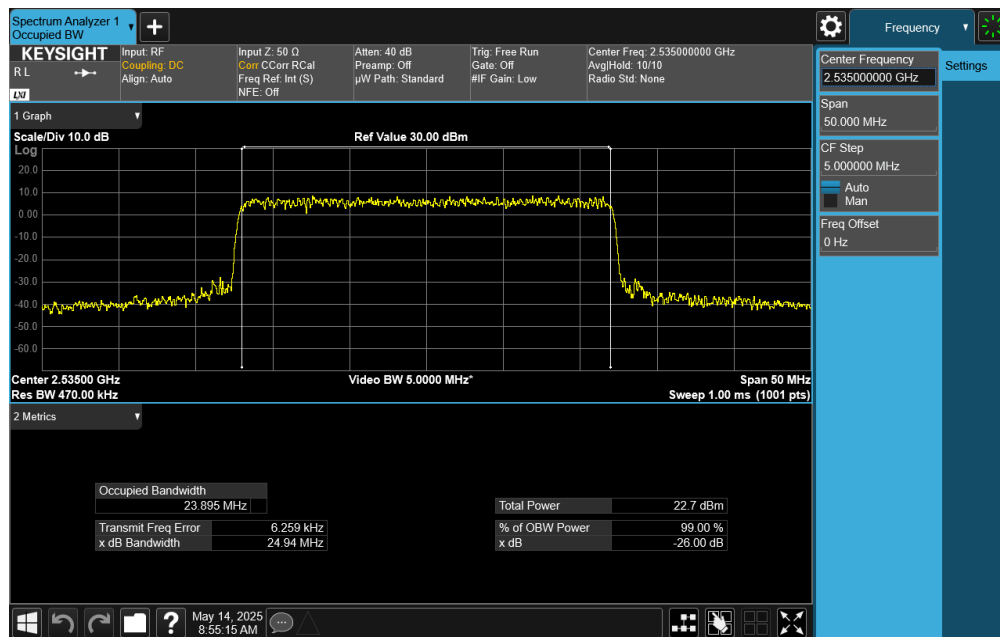
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n7 - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

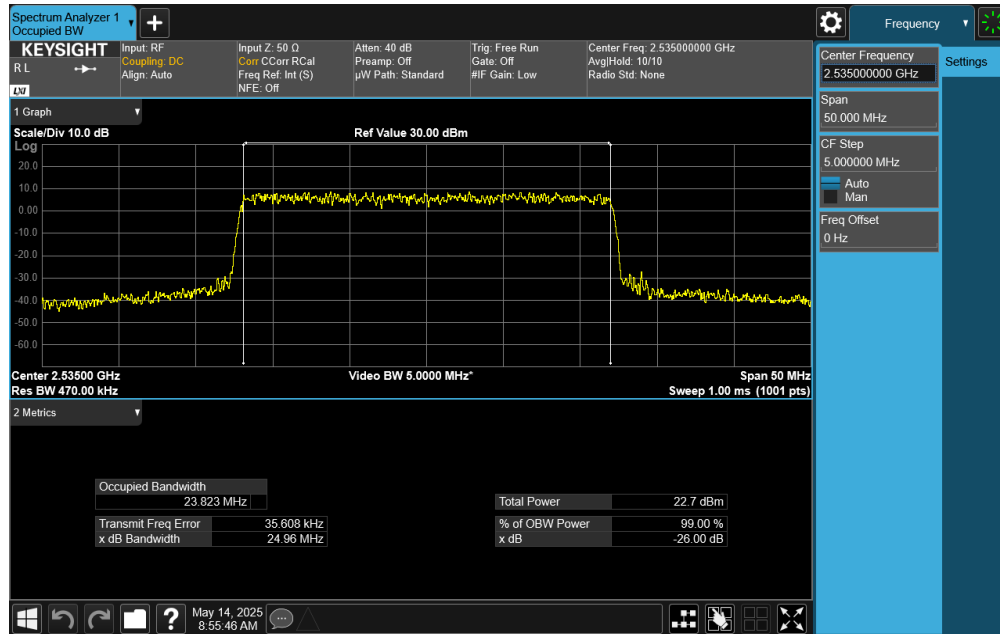


Plot 7-72. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM QPSK - Full RB)

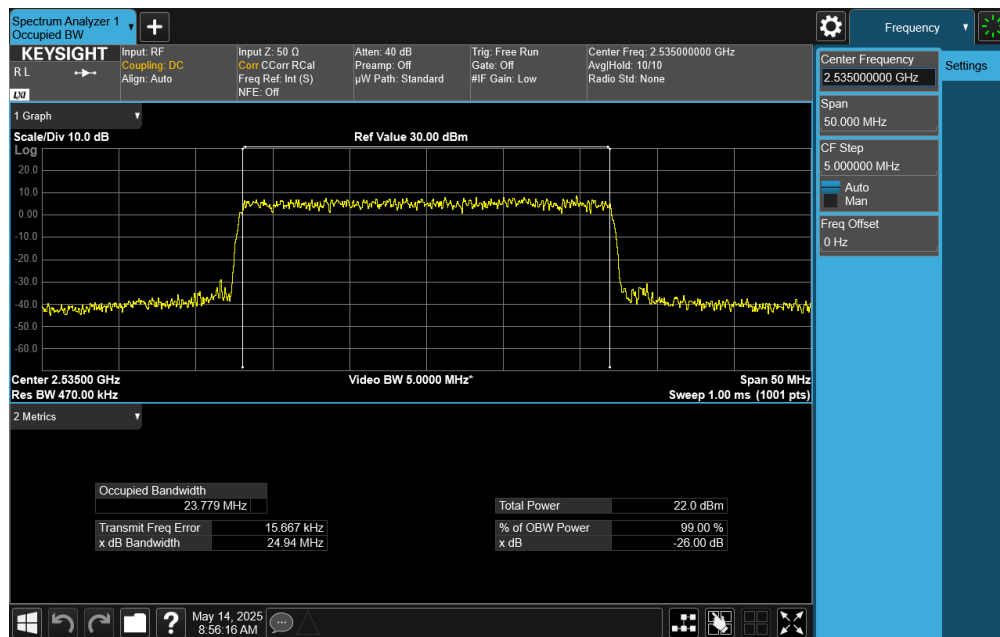
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-73. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 16-QAM - Full RB)

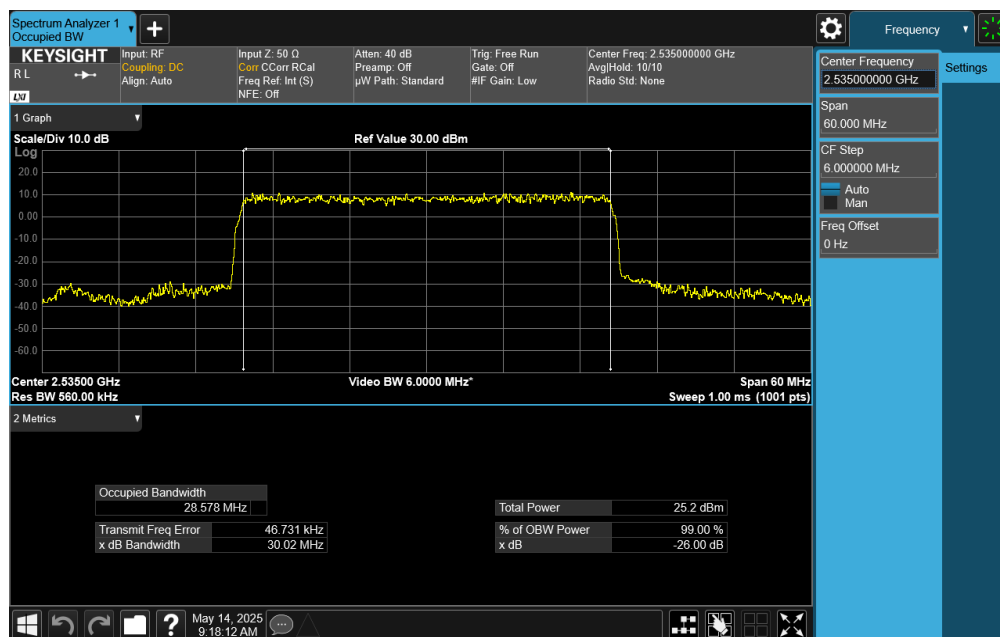
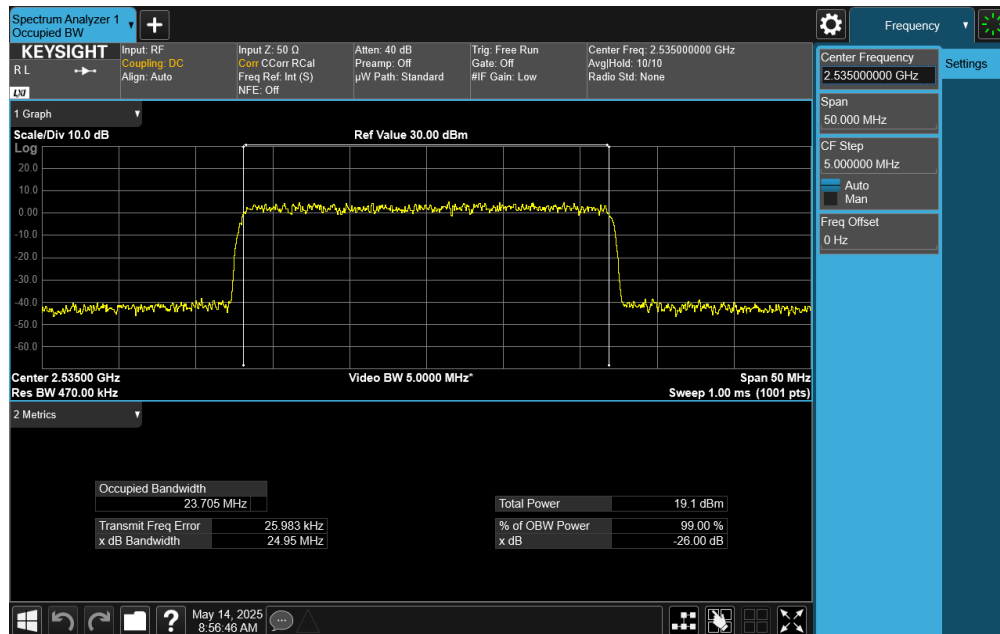


Plot 7-74. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 64-QAM - Full RB)

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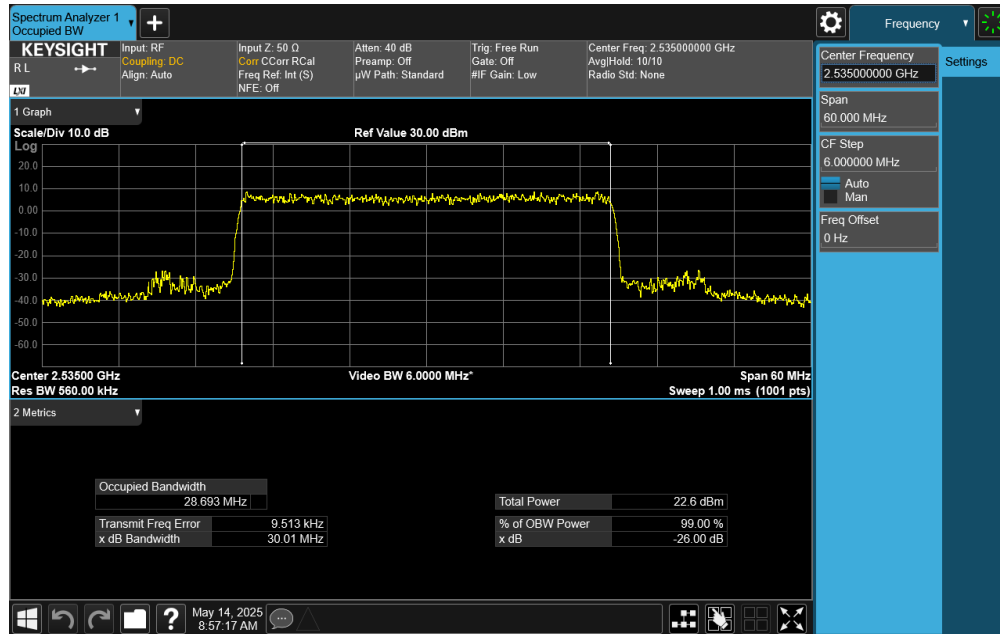
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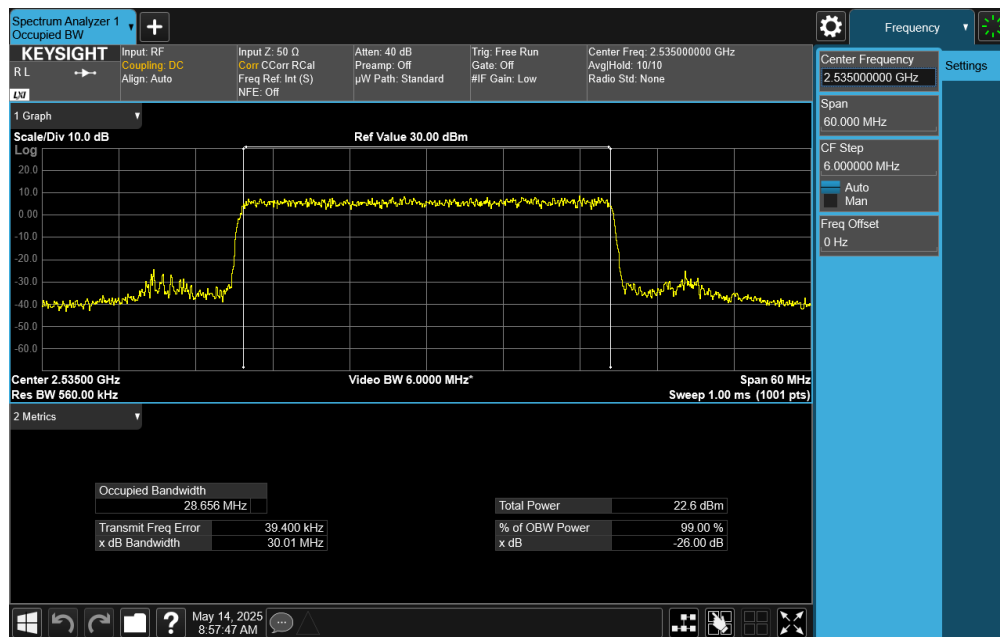
FCC ID: BCGA3358	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-77. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM QPSK - Full RB)

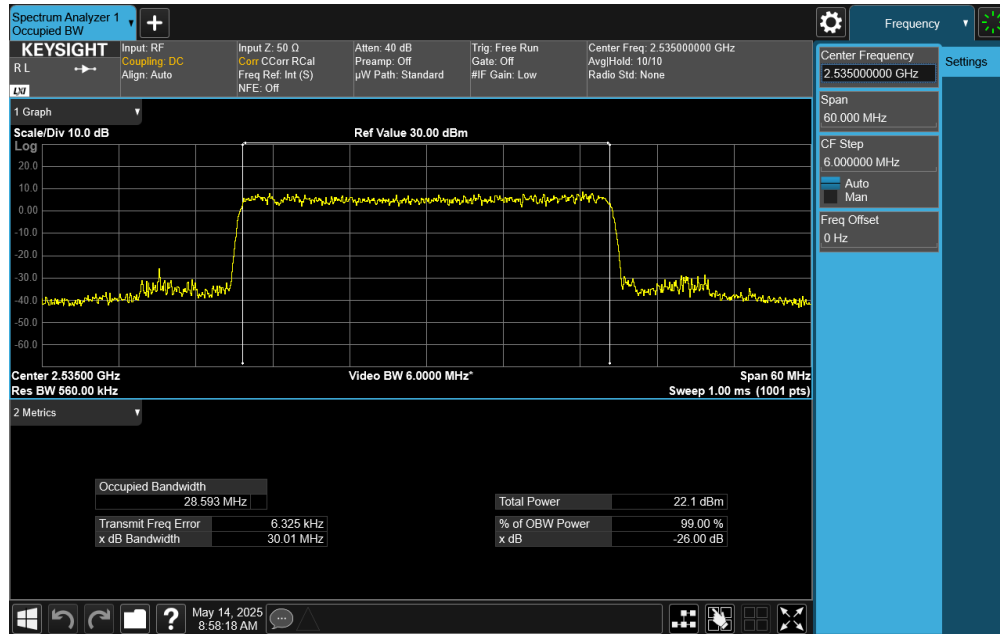


Plot 7-78. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM 16-QAM - Full RB)

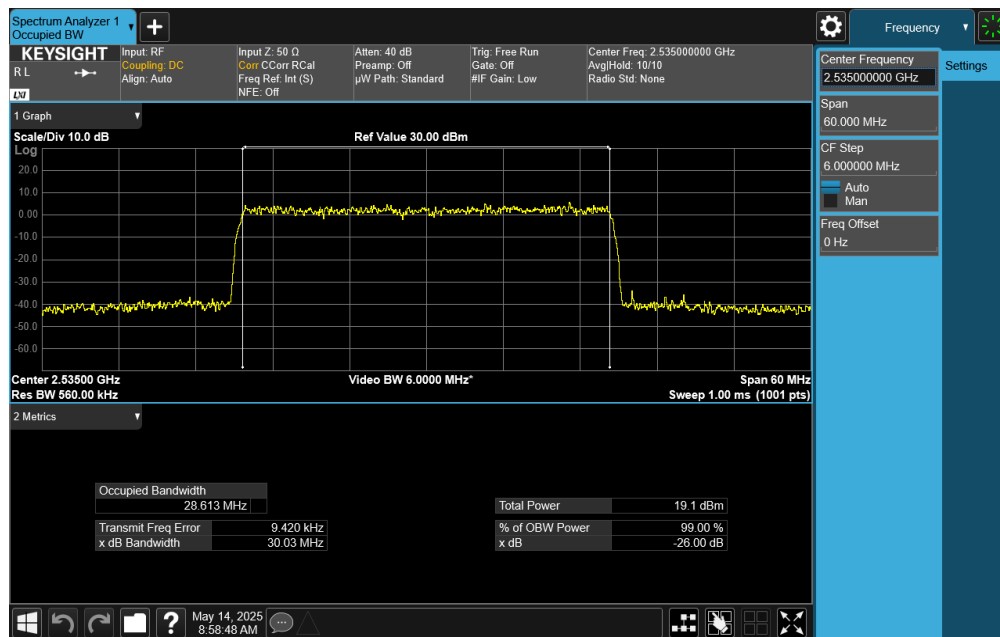
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-79. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM 64-QAM - Full RB)

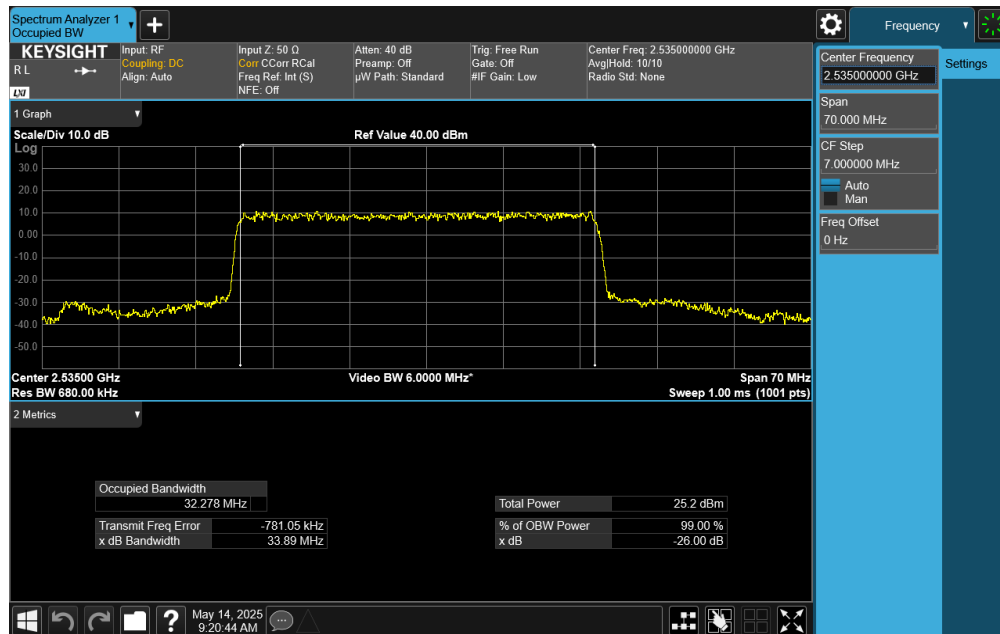


Plot 7-80. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM 256-QAM - Full RB)

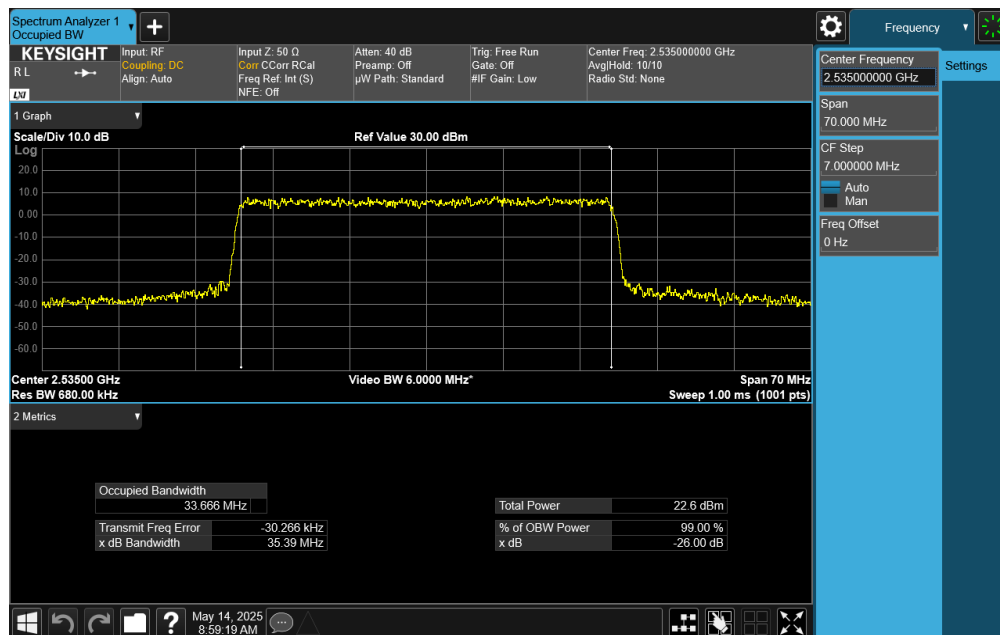
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-81. Occupied Bandwidth Plot (NR Band n7 - 35MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

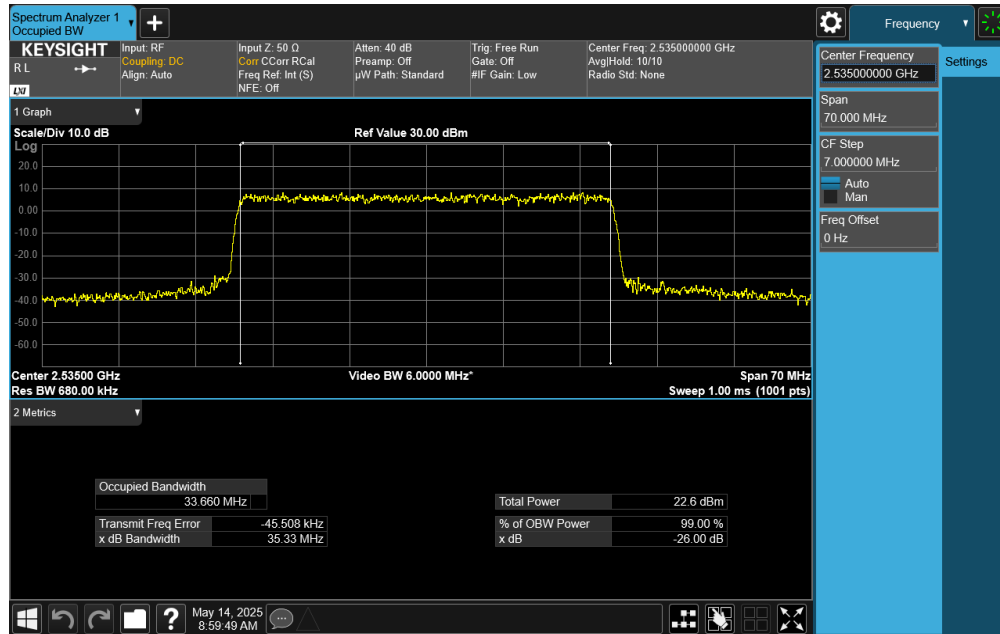


Plot 7-82. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM QPSK - Full RB)

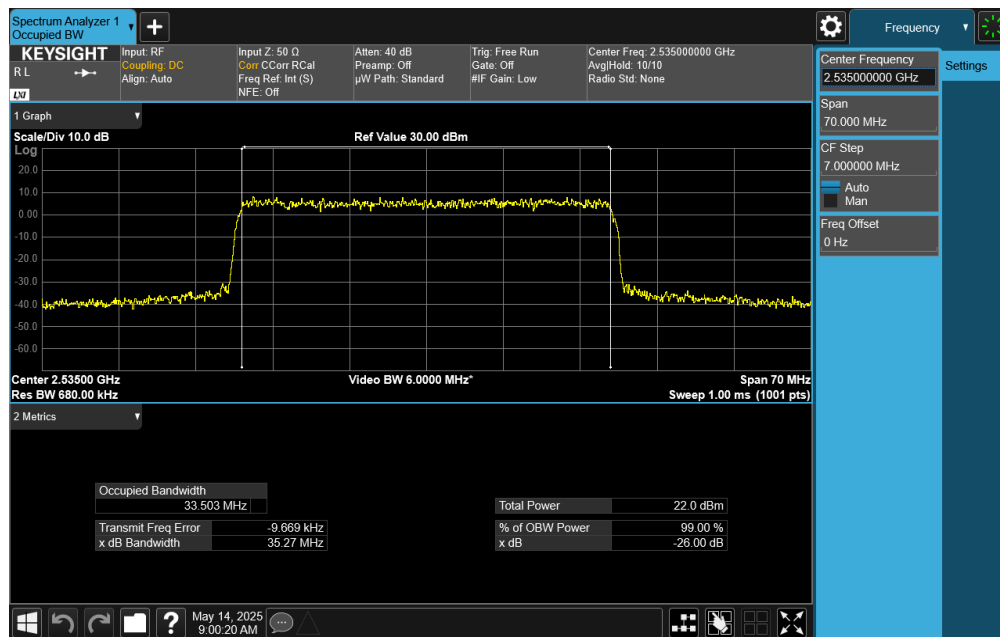
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-83. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 16-QAM - Full RB)

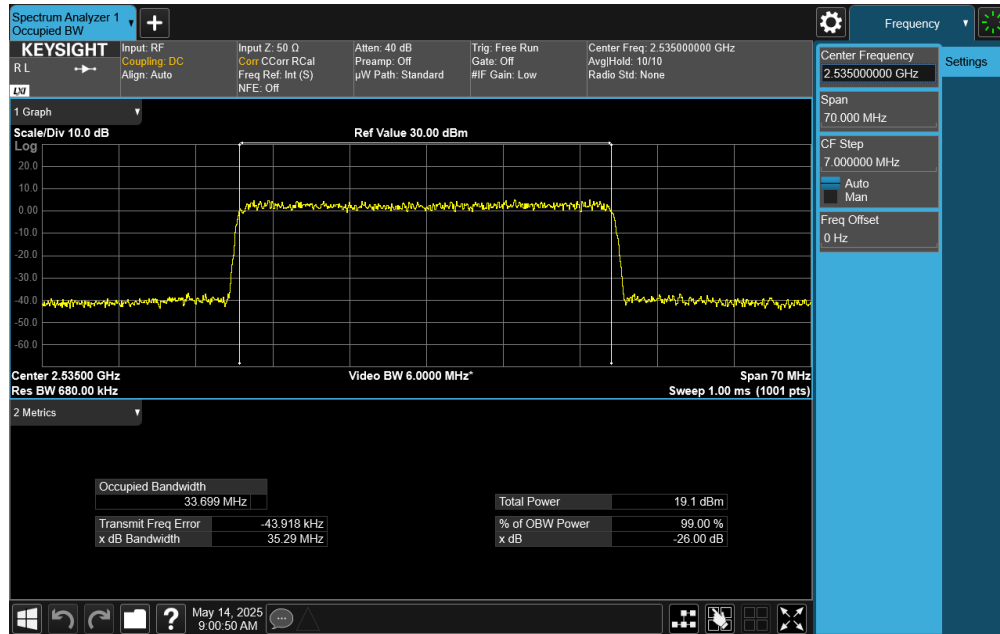


Plot 7-84. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 64-QAM - Full RB)

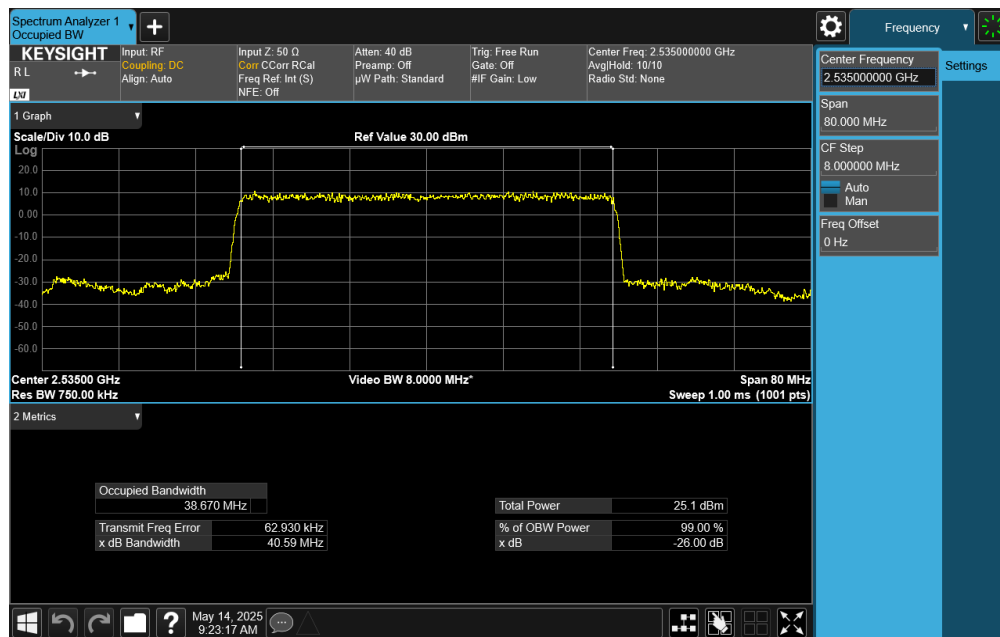
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-85. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 256-QAM - Full RB)

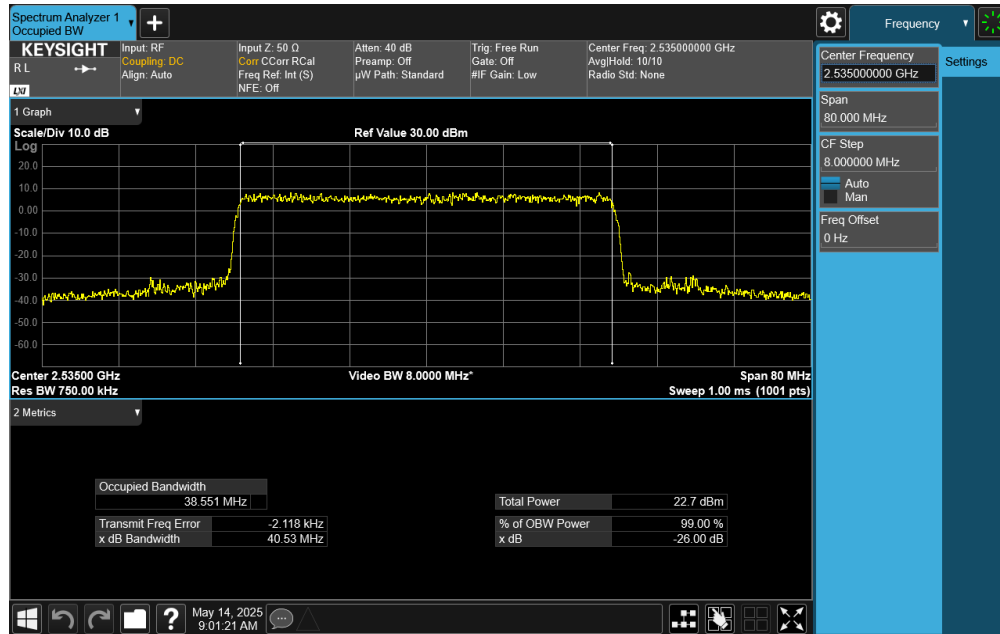


Plot 7-86. Occupied Bandwidth Plot (NR Band n7 - 40MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

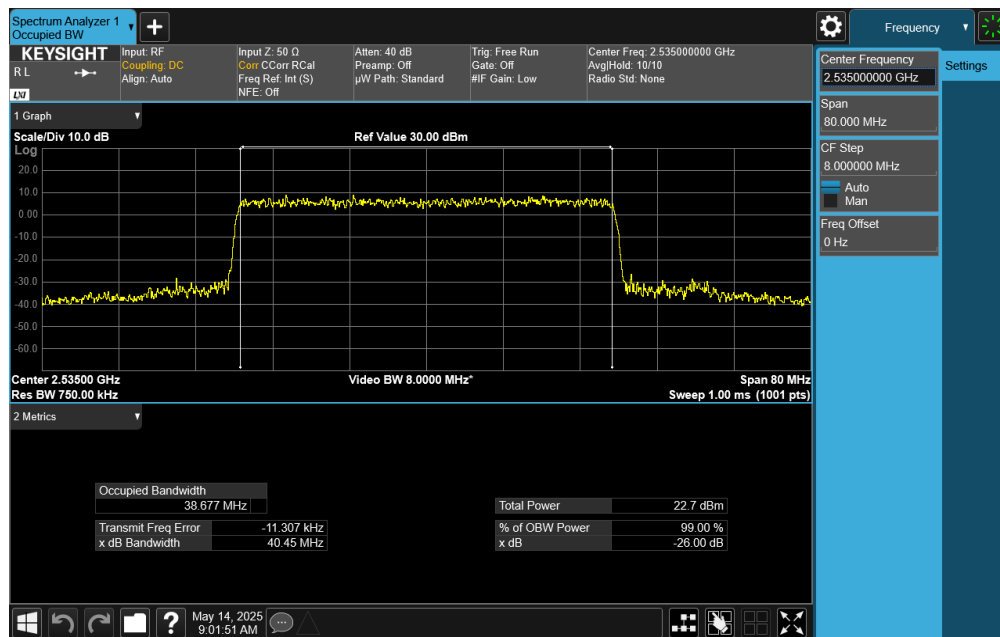
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-87. Occupied Bandwidth Plot (NR Band n7 - 40MHz CP-OFDM QPSK - Full RB)



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

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