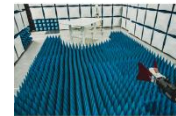




ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Court, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
<http://www.element.com>



PART 27 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

5/9/2025 - 6/24/2025

Test Report Issue Date:

9/4/2025

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170039-09.BCG

FCC ID:

BCGA3358

APPLICANT:

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.

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: 1C2504170039-09.BCG	Test Dates: 5/9/2025 - 6/24/2025	EUT Type: Tablet Device	Page 1 of 359

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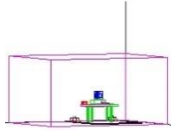
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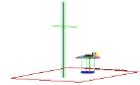
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PART 27 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	ERP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
LTE Band 71	5 MHz	QPSK	665.5 - 695.5	4.5340	0.122	20.85	4M53G7W
		16QAM	665.5 - 695.5	4.5285	0.103	20.13	4M53D7W
		64QAM	665.5 - 695.5	4.5431	0.079	18.95	4M54D7W
		256QAM	665.5 - 695.5	4.5496	0.041	16.10	4M55D7W
	10 MHz	QPSK	668.0 - 693.0	9.0207	0.117	20.68	9M02G7W
		16QAM	668.0 - 693.0	9.0146	0.099	19.94	9M01D7W
		64QAM	668.0 - 693.0	9.0462	0.078	18.90	9M05D7W
		256QAM	668.0 - 693.0	9.0295	0.041	16.17	9M03D7W
	15 MHz	QPSK	670.5 - 690.5	13.5247	0.117	20.68	13M5G7W
		16QAM	670.5 - 690.5	13.5140	0.102	20.09	13M5D7W
		64QAM	670.5 - 690.5	13.5051	0.077	18.89	13M5D7W
		256QAM	670.5 - 690.5	13.5144	0.041	16.11	13M5D7W
	20 MHz	QPSK	673.0 - 688.0	17.9851	0.115	20.62	18M0G7W
		16QAM	673.0 - 688.0	17.9720	0.101	20.03	18M0D7W
		64QAM	673.0 - 688.0	17.9803	0.076	18.80	18M0D7W
		256QAM	673.0 - 688.0	17.9211	0.040	16.06	17M9D7W
LTE Band 12	1.4 MHz	QPSK	699.7 - 715.3	1.1100	0.110	20.41	1M11G7W
		16QAM	699.7 - 715.3	1.1093	0.090	19.55	1M11D7W
		64QAM	699.7 - 715.3	1.1135	0.071	18.51	1M11D7W
		256QAM	699.7 - 715.3	1.1142	0.036	15.58	1M11D7W
	3 MHz	QPSK	700.5 - 714.5	2.7229	0.104	20.18	2M72G7W
		16QAM	700.5 - 714.5	2.7153	0.091	19.61	2M72D7W
		64QAM	700.5 - 714.5	2.7149	0.070	18.48	2M71D7W
		256QAM	700.5 - 714.5	2.7264	0.036	15.55	2M73D7W
	5 MHz	QPSK	701.5 - 713.5	4.5282	0.111	20.45	4M53G7W
		16QAM	701.5 - 713.5	4.5446	0.094	19.71	4M54D7W
		64QAM	701.5 - 713.5	4.5532	0.070	18.47	4M55D7W
		256QAM	701.5 - 713.5	4.5599	0.037	15.69	4M56D7W
	10 MHz	QPSK	704.0 - 711.0	9.0146	0.105	20.23	9M01G7W
		16QAM	704.0 - 711.0	9.0427	0.092	19.66	9M04D7W
		64QAM	704.0 - 711.0	8.9929	0.071	18.51	8M99D7W
		256QAM	704.0 - 711.0	9.0555	0.037	15.74	9M06D7W
LTE Band 17	5 MHz	QPSK	706.5 - 713.5	4.5282	0.111	20.45	4M53G7W
		16QAM	706.5 - 713.5	4.5446	0.094	19.75	4M54D7W
		64QAM	706.5 - 713.5	4.5532	0.072	18.57	4M55D7W
		256QAM	706.5 - 713.5	4.5599	0.037	15.74	4M56D7W
	10 MHz	QPSK	709.0 - 711.0	9.0146	0.107	20.30	9M01G7W
		16QAM	709.0 - 711.0	9.0427	0.092	19.64	9M04D7W
		64QAM	709.0 - 711.0	8.9929	0.074	18.72	8M99D7W
		256QAM	709.0 - 711.0	9.0555	0.038	15.79	9M06D7W
LTE Band 13	5 MHz	QPSK	779.5 - 784.5	4.5281	0.164	22.16	4M53G7W
		16QAM	779.5 - 784.5	4.5342	0.142	21.53	4M53D7W
		64QAM	779.5 - 784.5	4.5347	0.105	20.22	4M53D7W
		256QAM	779.5 - 784.5	4.5311	0.056	17.48	4M53D7W
	10 MHz	QPSK	782.0	9.0181	0.158	21.98	9M02G7W
		16QAM	782.0	9.0143	0.138	21.39	9M01D7W
		64QAM	782.0	9.0049	0.108	20.32	9M00D7W
		256QAM	782.0	9.0249	0.057	17.55	9M02D7W

Overview Table (<1GHz Band)

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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	ERP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
NR Band n71	5 MHz	$\pi/2$ BPSK	665.5 - 695.5	4.4957	0.119	20.74	4M50G7W
		QPSK	665.5 - 695.5	4.4705	0.122	20.85	4M47G7W
		16QAM	665.5 - 695.5	4.4820	0.093	19.67	4M48D7W
		64QAM	665.5 - 695.5	4.4824	0.076	18.83	4M48D7W
		256QAM	665.5 - 695.5	4.4872	0.047	16.76	4M49D7W
	10 MHz	$\pi/2$ BPSK	668.0 - 693.0	9.0163	0.120	20.80	9M02G7W
		QPSK	668.0 - 693.0	9.3179	0.117	20.70	9M32G7W
		16QAM	668.0 - 693.0	9.2765	0.092	19.66	9M28D7W
		64QAM	668.0 - 693.0	9.2666	0.075	18.76	9M27D7W
		256QAM	668.0 - 693.0	9.3505	0.048	16.84	9M35D7W
	15 MHz	$\pi/2$ BPSK	670.5 - 690.5	13.4582	0.119	20.76	13M5G7W
		QPSK	670.5 - 690.5	14.1360	0.120	20.79	14M1G7W
		16QAM	670.5 - 690.5	14.1092	0.090	19.54	14M1D7W
		64QAM	670.5 - 690.5	14.1237	0.073	18.64	14M1D7W
		256QAM	670.5 - 690.5	14.0764	0.046	16.63	14M1D7W
	20 MHz	$\pi/2$ BPSK	673.0 - 688.0	17.8985	0.119	20.76	17M9G7W
		QPSK	673.0 - 688.0	18.9790	0.120	20.79	19M0G7W
		16QAM	673.0 - 688.0	18.9532	0.090	19.56	19M0D7W
		64QAM	673.0 - 688.0	18.9297	0.074	18.69	18M9D7W
		256QAM	673.0 - 688.0	19.0585	0.046	16.67	19M1D7W
NR Band n12	5 MHz	$\pi/2$ BPSK	701.5 - 713.5	4.4912	0.108	20.33	4M49G7W
		QPSK	701.5 - 713.5	4.4799	0.110	20.43	4M48G7W
		16QAM	701.5 - 713.5	4.4813	0.082	19.16	4M48D7W
		64QAM	701.5 - 713.5	4.4447	0.069	18.39	4M44D7W
		256QAM	701.5 - 713.5	4.4891	0.043	16.34	4M49D7W
	10 MHz	$\pi/2$ BPSK	704.0 - 711.0	8.8749	0.111	20.45	8M87G7W
		QPSK	704.0 - 711.0	9.2796	0.109	20.38	9M28G7W
		16QAM	704.0 - 711.0	9.2863	0.084	19.24	9M29D7W
		64QAM	704.0 - 711.0	9.2802	0.068	18.35	9M28D7W
		256QAM	704.0 - 711.0	9.2287	0.044	16.47	9M23D7W
	15 MHz	$\pi/2$ BPSK	706.5 - 708.5	13.3728	0.108	20.33	13M4G7W
		QPSK	706.5 - 708.5	14.1489	0.107	20.27	14M1G7W
		16QAM	706.5 - 708.5	14.1259	0.081	19.08	14M1D7W
		64QAM	706.5 - 708.5	14.1706	0.068	18.35	14M2D7W
		256QAM	706.5 - 708.5	14.1863	0.043	16.33	14M2D7W

Overview Table (<1GHz Band)

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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]	
WCDMA1700	5 MHz	Spread Spectrum	1712.4 - 1752.6	4.1161	3.29	0.335	25.25	4M12F9W
LTE Band 4	1.4 MHz	QPSK	1710.7 - 1754.3	1.1073	5.05	0.363	25.60	1M11G7W
		16QAM	1710.7 - 1754.3	1.1114	5.70	0.299	24.75	1M11D7W
		64QAM	1710.7 - 1754.3	1.1117	6.75	0.234	23.69	1M11D7W
		256QAM	1710.7 - 1754.3	1.1109	6.64	0.122	20.88	1M11D7W
	3 MHz	QPSK	1711.5 - 1753.5	2.7230	4.85	0.350	25.44	2M72G7W
		16QAM	1711.5 - 1753.5	2.7152	5.79	0.303	24.82	2M72D7W
		64QAM	1711.5 - 1753.5	2.7216	6.67	0.229	23.60	2M72D7W
		256QAM	1711.5 - 1753.5	2.7171	6.66	0.124	20.92	2M72D7W
	5 MHz	QPSK	1712.5 - 1752.5	4.5319	5.06	0.359	25.55	4M53G7W
		16QAM	1712.5 - 1752.5	4.5288	5.72	0.306	24.86	4M53D7W
		64QAM	1712.5 - 1752.5	4.5185	6.66	0.232	23.66	4M52D7W
		256QAM	1712.5 - 1752.5	4.5325	6.66	0.125	20.96	4M53D7W
	10MHz	QPSK	1715.0 - 1750.0	9.0189	5.03	0.342	25.34	9M02G7W
		16QAM	1715.0 - 1750.0	9.0503	5.71	0.304	24.83	9M05D7W
		64QAM	1715.0 - 1750.0	9.0413	6.60	0.234	23.70	9M04D7W
		256QAM	1715.0 - 1750.0	9.0291	6.64	0.125	20.98	9M03D7W
	15 MHz	QPSK	1717.5 - 1747.5	13.5542	5.18	0.353	25.48	13M6G7W
		16QAM	1717.5 - 1747.5	13.5064	5.77	0.298	24.74	13M5D7W
		64QAM	1717.5 - 1747.5	13.4860	6.59	0.234	23.70	13M5D7W
		256QAM	1717.5 - 1747.5	13.5605	6.56	0.123	20.90	13M6D7W
	20 MHz	QPSK	1720.0 - 1745.0	17.9771	5.08	0.349	25.43	18M0G7W
		16QAM	1720.0 - 1745.0	17.9984	5.72	0.296	24.71	18M0D7W
		64QAM	1720.0 - 1745.0	17.9554	6.56	0.227	23.56	18M0D7W
		256QAM	1720.0 - 1745.0	17.9775	6.57	0.123	20.89	18M0D7W
LTE Band 66	1.4 MHz	QPSK	1710.7 - 1779.3	1.1073	5.07	0.344	25.37	1M11G7W
		16QAM	1710.7 - 1779.3	1.1114	5.74	0.292	24.66	1M11D7W
		64QAM	1710.7 - 1779.3	1.1117	6.80	0.231	23.64	1M11D7W
		256QAM	1710.7 - 1779.3	1.1109	6.78	0.120	20.79	1M11D7W
	3 MHz	QPSK	1711.5 - 1778.5	2.7230	4.82	0.345	25.38	2M72G7W
		16QAM	1711.5 - 1778.5	2.7152	5.82	0.312	24.94	2M72D7W
		64QAM	1711.5 - 1778.5	2.7216	6.72	0.234	23.69	2M72D7W
		256QAM	1711.5 - 1778.5	2.7171	6.77	0.121	20.83	2M72D7W
	5 MHz	QPSK	1712.5 - 1777.5	4.5319	5.02	0.363	25.60	4M53G7W
		16QAM	1712.5 - 1777.5	4.5288	5.73	0.313	24.95	4M53D7W
		64QAM	1712.5 - 1777.5	4.5185	6.68	0.241	23.82	4M52D7W
		256QAM	1712.5 - 1777.5	4.5325	6.75	0.124	20.94	4M53D7W
	10 MHz	QPSK	1715.0 - 1775.0	9.0189	4.97	0.348	25.42	9M02G7W
		16QAM	1715.0 - 1775.0	9.0503	5.69	0.308	24.88	9M05D7W
		64QAM	1715.0 - 1775.0	9.0413	6.63	0.239	23.78	9M04D7W
		256QAM	1715.0 - 1775.0	9.0291	6.74	0.124	20.95	9M03D7W
	15 MHz	QPSK	1717.5 - 1772.5	13.5542	5.12	0.346	25.39	13M6G7W
		16QAM	1717.5 - 1772.5	13.5064	5.74	0.310	24.91	13M5D7W
		64QAM	1717.5 - 1772.5	13.4860	6.59	0.230	23.61	13M5D7W
		256QAM	1717.5 - 1772.5	13.5605	6.69	0.121	20.82	13M6D7W
	20 MHz	QPSK	1720.0 - 1770.0	17.9771	5.01	0.341	25.33	18M0G7W
		16QAM	1720.0 - 1770.0	17.9984	5.70	0.293	24.67	18M0D7W
		64QAM	1720.0 - 1770.0	17.9554	6.57	0.220	23.42	18M0D7W
		256QAM	1720.0 - 1770.0	17.9775	6.67	0.117	20.69	18M0D7W

Overview Table (>1GHz Bands)

FCC ID: BCGA3358	 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 n66	5 MHz	$\pi/2$ BPSK	1712.5 - 1777.5	4.5017	4.09	0.360	25.56	4M50G7W
		QPSK	1712.5 - 1777.5	4.4821	4.80	0.361	25.57	4M48G7W
		16QAM	1712.5 - 1777.5	4.4746	5.79	0.271	24.34	4M47D7W
		64QAM	1712.5 - 1777.5	4.4667	6.41	0.228	23.57	4M47D7W
		256QAM	1712.5 - 1777.5	4.4980	6.50	0.146	21.65	4M50D7W
	10 MHz	$\pi/2$ BPSK	1715.0 - 1775.0	8.9765	4.10	0.359	25.55	8M98G7W
		QPSK	1715.0 - 1775.0	9.3183	4.83	0.352	25.47	9M32G7W
		16QAM	1715.0 - 1775.0	9.2677	5.93	0.270	24.32	9M27D7W
		64QAM	1715.0 - 1775.0	9.3252	6.36	0.225	23.52	9M33D7W
		256QAM	1715.0 - 1775.0	9.2763	6.57	0.146	21.64	9M28D7W
	15 MHz	$\pi/2$ BPSK	1717.5 - 1772.5	13.4469	4.12	0.351	25.45	13M4G7W
		QPSK	1717.5 - 1772.5	14.1444	4.91	0.355	25.50	14M1G7W
		16QAM	1717.5 - 1772.5	14.0476	5.79	0.269	24.30	14MOD7W
		64QAM	1717.5 - 1772.5	14.1365	6.38	0.228	23.57	14M1D7W
		256QAM	1717.5 - 1772.5	14.1553	6.52	0.144	21.58	14M2D7W
	20 MHz	$\pi/2$ BPSK	1720.0 - 1770.0	17.8658	4.17	0.356	25.51	17M9G7W
		QPSK	1720.0 - 1770.0	18.9244	4.82	0.351	25.45	18M9G7W
		16QAM	1720.0 - 1770.0	19.0072	5.74	0.265	24.23	19MOD7W
		64QAM	1720.0 - 1770.0	18.9488	6.41	0.227	23.55	18M9D7W
		256QAM	1720.0 - 1770.0	18.9862	6.50	0.141	21.48	19MOD7W
	25 MHz	$\pi/2$ BPSK	1722.5 - 1767.5	22.8780	4.34	0.350	25.44	22M9G7W
		QPSK	1722.5 - 1767.5	23.8073	4.91	0.350	25.44	23M8G7W
		16QAM	1722.5 - 1767.5	23.7627	5.75	0.267	24.27	23M8D7W
		64QAM	1722.5 - 1767.5	23.7248	6.35	0.231	23.64	23M7D7W
		256QAM	1722.5 - 1767.5	23.7719	6.45	0.147	21.68	23M8D7W
	30 MHz	$\pi/2$ BPSK	1725.0 - 1765.0	28.6813	4.20	0.356	25.52	28M7G7W
		QPSK	1725.0 - 1765.0	28.5601	4.96	0.363	25.60	28M6G7W
		16QAM	1725.0 - 1765.0	28.6921	5.80	0.272	24.35	28M7D7W
		64QAM	1725.0 - 1765.0	28.5352	6.46	0.225	23.51	28M5D7W
		256QAM	1725.0 - 1765.0	28.5997	6.57	0.140	21.46	28M6D7W
	35 MHz	$\pi/2$ BPSK	1727.5 - 1762.5	32.2482	4.27	0.353	25.48	32M2G7W
		QPSK	1727.5 - 1762.5	33.6885	4.85	0.353	25.47	33M7G7W
		16QAM	1727.5 - 1762.5	33.6563	5.78	0.270	24.31	33M7D7W
		64QAM	1727.5 - 1762.5	33.5979	6.32	0.225	23.52	33M6D7W
		256QAM	1727.5 - 1762.5	33.6488	6.57	0.146	21.64	33M6D7W
	40 MHz	$\pi/2$ BPSK	1730.0 - 1760.0	38.6130	4.56	0.363	25.60	38M6G7W
		QPSK	1730.0 - 1760.0	38.6913	4.99	0.360	25.56	38M7G7W
		16QAM	1730.0 - 1760.0	38.6194	5.70	0.272	24.35	38M6D7W
		64QAM	1730.0 - 1760.0	38.6222	6.26	0.225	23.52	38M6D7W
		256QAM	1730.0 - 1760.0	38.6822	6.49	0.143	21.56	38M7D7W
	45 MHz	$\pi/2$ BPSK	1732.5 - 1757.5	42.8376	4.25	0.353	25.48	42M8G7W
		QPSK	1732.5 - 1757.5	43.2197	4.80	0.349	25.43	43M2G7W
		16QAM	1732.5 - 1757.5	43.3437	5.67	0.272	24.35	43M3D7W
		64QAM	1732.5 - 1757.5	43.1247	6.29	0.225	23.53	43M1D7W
		256QAM	1732.5 - 1757.5	43.1142	6.53	0.147	21.67	43M1D7W
NR Band n70	5 MHz	$\pi/2$ BPSK	1712.5 - 1777.5	4.4765	4.10	0.209	23.20	4M48G7W
		QPSK	1712.5 - 1777.5	4.4715	4.77	0.206	23.13	4M47G7W
		16QAM	1712.5 - 1777.5	4.4803	5.79	0.158	22.00	4M48D7W
		64QAM	1712.5 - 1777.5	4.4649	6.38	0.131	21.17	4M46D7W
		256QAM	1712.5 - 1777.5	4.4766	6.46	0.083	19.18	4M48D7W
	10 MHz	$\pi/2$ BPSK	1715.0 - 1775.0	8.9404	4.13	0.209	23.20	8M94G7W
		QPSK	1715.0 - 1775.0	9.3248	4.80	0.207	23.17	9M32G7W
		16QAM	1715.0 - 1775.0	9.3302	5.90	0.158	22.00	9M33D7W
		64QAM	1715.0 - 1775.0	9.2876	6.35	0.131	21.16	9M29D7W
		256QAM	1715.0 - 1775.0	9.3099	6.54	0.084	19.25	9M31D7W
	15 MHz	$\pi/2$ BPSK	1717.5 - 1772.5	13.4579	4.28	0.209	23.20	13M5G7W
		QPSK	1717.5 - 1772.5	14.1565	4.97	0.205	23.12	14M2G7W
		16QAM	1717.5 - 1772.5	14.1052	5.86	0.159	22.01	14M1D7W
		64QAM	1717.5 - 1772.5	14.1400	6.43	0.134	21.27	14M1D7W
		256QAM	1717.5 - 1772.5	14.1424	6.57	0.084	19.25	14M1D7W

Overview Table (>1GHz Bands)

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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.

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

Antenna	Simultaneous Tx Config	Bluetooth 2.4GHz	Thread	WLAN	NB UNII	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, LE HDR, HDT	802.15.4	802.11 b/g/n/ax/be	BDR, EDR, LE HDR, HDT	802.11 a/n/ac/ax/be	802.11 a/ax/be	LB	MB/HB	UHB
Ant 4a	Config 1	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 2	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 3	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 4a	Config 4	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 4a	Config 5	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 4a	Config 6	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 4a	Config 7	✗	✗	✓	✗	✗	✓	✗	✗	✗
Ant 2a	Config 8	✓	✗	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 9	✓	✗	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 10	✗	✓	✗	✗	✓	✗	✗	✗	✗
Ant 2a	Config 11	✗	✓	✗	✗	✗	✓	✗	✗	✗
Ant 2a	Config 12	✗	✗	✓	✓	✗	✗	✗	✗	✗
Ant 2a	Config 13	✗	✗	✓	✗	✓	✗	✗	✗	✗
Ant 2a	Config 14	✗	✗	✓	✗	✗	✓	✗	✗	✗

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF Bluetooth and RF UNII 5GHz OFDM test reports.

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2.3 Antenna Description

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

Band	Antenna Gain [dBi]			
	Antenna 4b	Antenna 3	Antenna 1	Antenna 2b
LTE Band 12/17	✖	-3.4	-2.1	✖
NR Band 12				
LTE Band 13	✖	-1.2	-1.9	✖
LTE Band 4/66	-2.7	-0.1	-2.1	-3.4
NR Band n66				
WCDMA1700				
LTE Band 71	✖	-2.7	-1.8	✖
NR Band n71				
NR Band 70	-2.4	-2.0	-4.2	-5.1

Table 2-2. Highest Antenna Gains

✖ = Not Support

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N: C02H604EQ05D S/N: C4H042705ZNP MOWA6
2	Apple USB-C Cable	Model: Spartan	S/N: GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: A246C Model: A2305	S/N: DWH80115BK826GV19 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

WCDMA Emission Designator

Emission Designator = 4M16F9W

WCDMA BW = 4.16 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

$\pi/2$ BPSK / QPSK Modulation

Emission Designator = 8M62G7W

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W

LTE BW = 8.45 MHz

D = Amplitude/Angle Modulated

7 = Quantized/Digital Info

W = Combination of Any

Spurious Radiated Emission

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average 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 1564 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80).

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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): WCDMA/LTE/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	2.1051, 27.53	-13 dBm at Band Edge and for all out-of-band emissions	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (LTE Band 13)	2.1051, 27.53	-13 dBm at Band Edge and for all out-of-band emissions < -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 - 1610 MHz	PASS	Sections 7.3, 7.4
	Peak-Average Ratio	27.50(d)(5)	< 13 dB	PASS	Section 7.5
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 71)	27.50(b)(10)	< 3 Watts max. ERP	PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n71)			PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 12/17)			PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band 12)			PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 13)	27.50(c)(10)	< 3 Watts max. ERP	PASS	Section 7.6
	Equivalent Isotropic Radiated Power (WCDMA)	27.50(d)(4)	< 1 Watts max. EIRP	PASS	Section 7.6
	Equivalent Isotropic Radiated Power (NR Band n66)			PASS	Section 7.6
	Equivalent Isotropic Radiated Power (LTE Band 4/66)			PASS	Section 7.6
	Equivalent Isotropic Radiated Power (NR Band n70)			PASS	Section 7.6
RADIATED	Radiated Spurious Emissions (LTE Band 13)	2.1053, 27.53(f)	-13 dBm for all out-of-band emissions < -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 - 1610 MHz	PASS	Section 7.7
	Radiated Spurious Emissions	2.1053, 27.53	-13 dBm for all out-of-band emissions	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 ports conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is Element EMC Software Tool v1.1.
5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

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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 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

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Test Setup

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

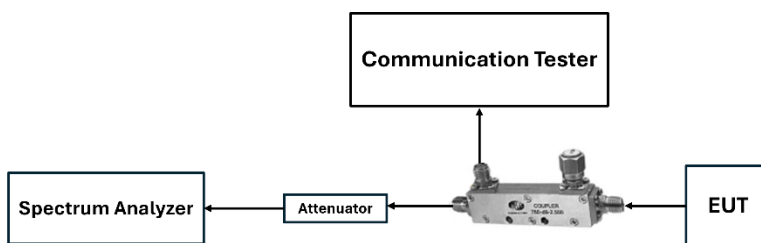


Figure 7-1. LTE Test Instrument & Measurement Setup

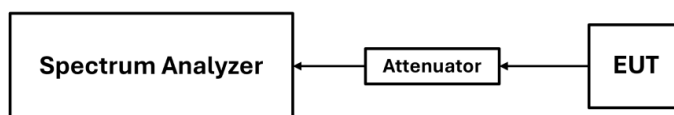


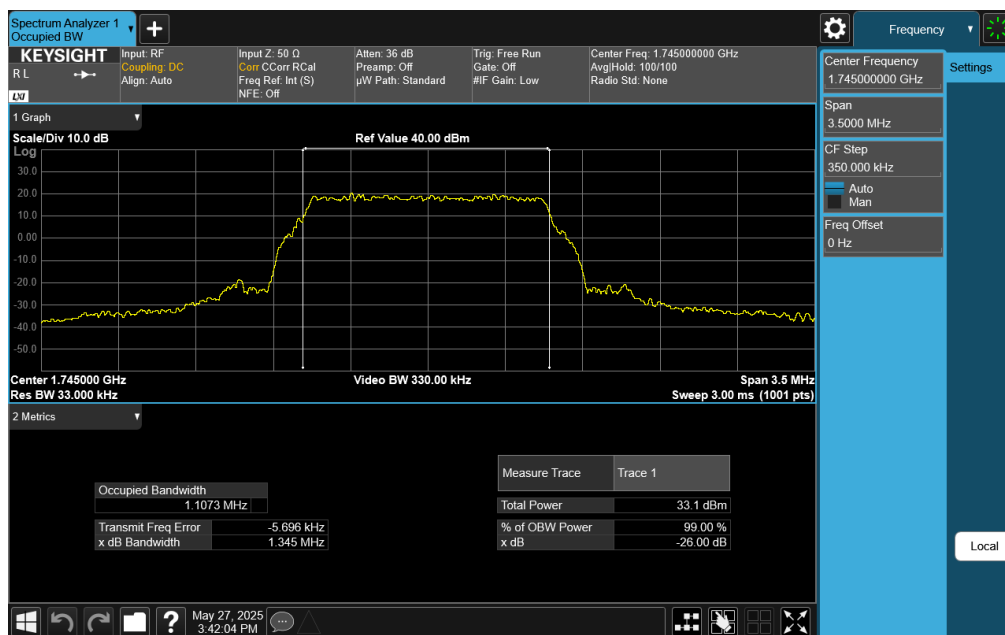
Figure 7-2. FR1 Test Instrument & Measurement Setup

Test Notes

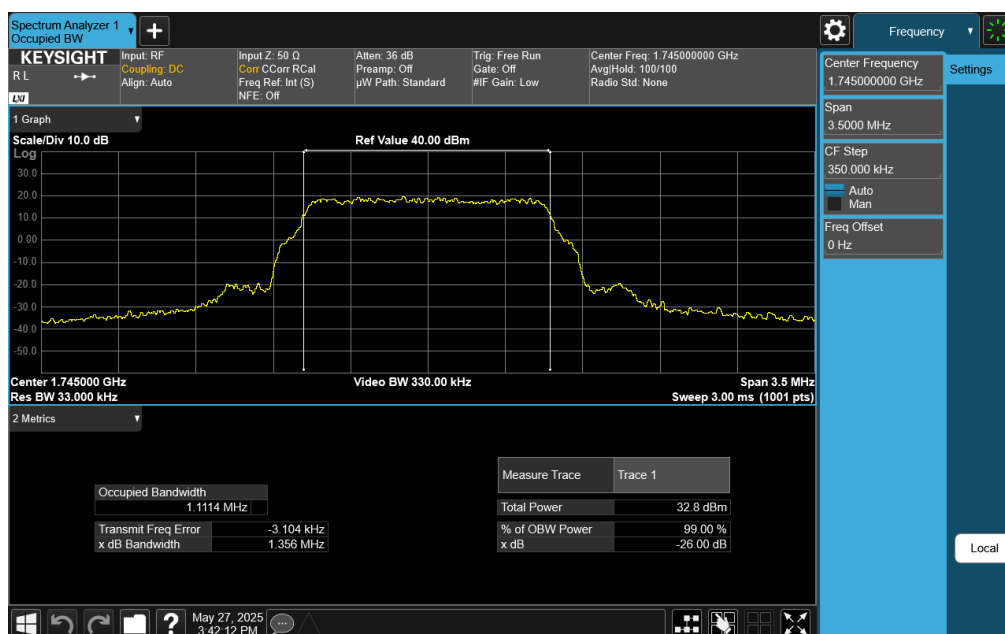
1. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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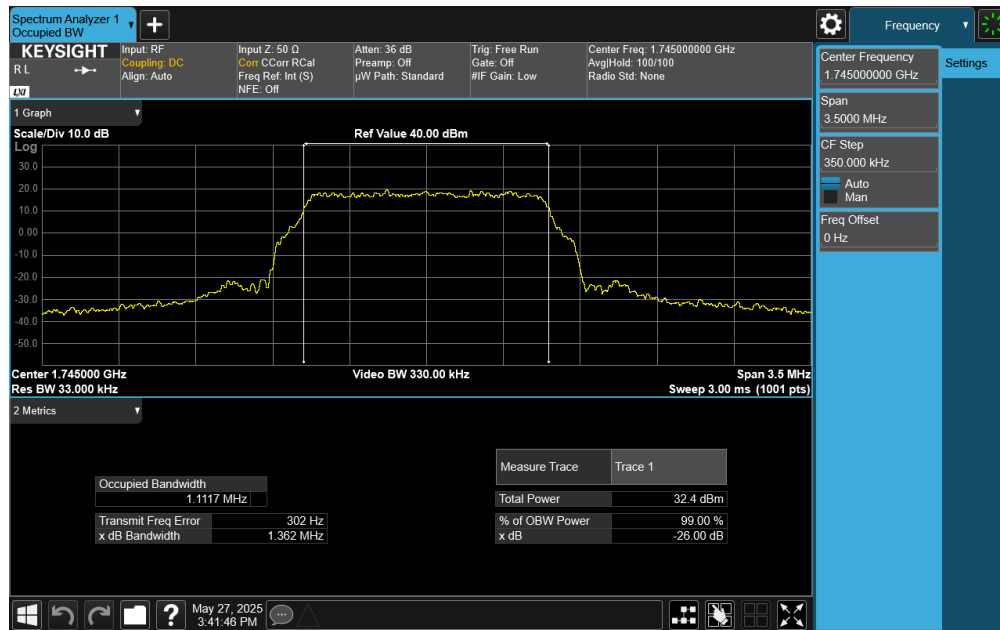


Plot 7-1. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB)

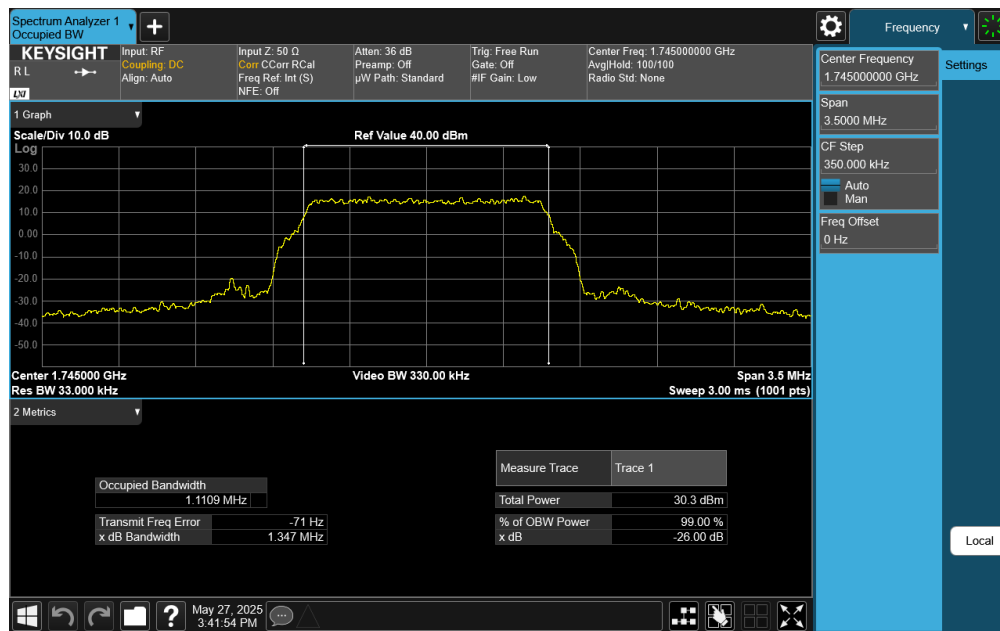


Plot 7-2. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB)

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Plot 7-3. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 64-QAM - Full RB)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB)

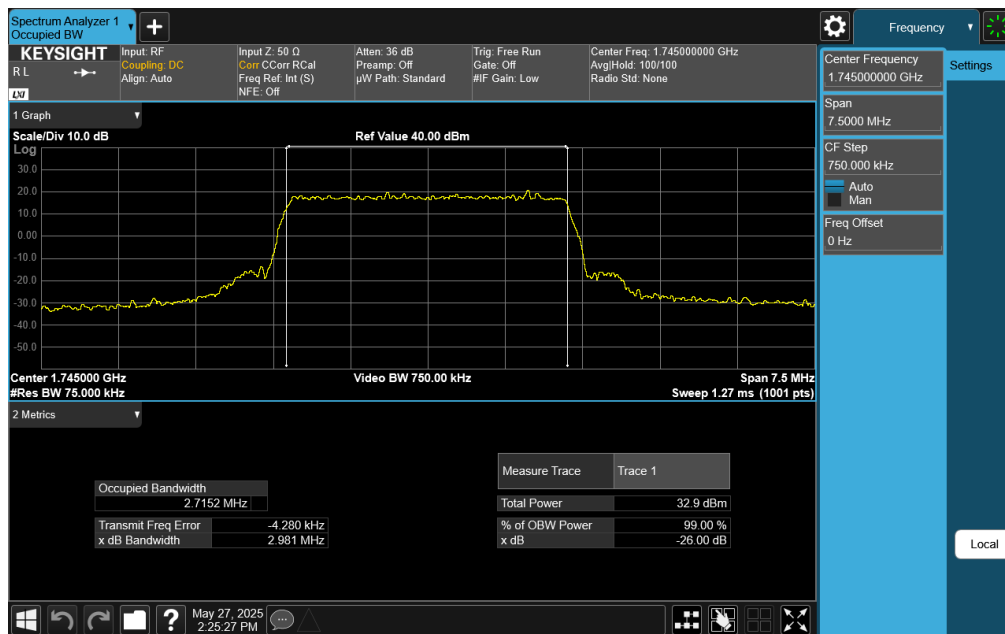
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-5. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)

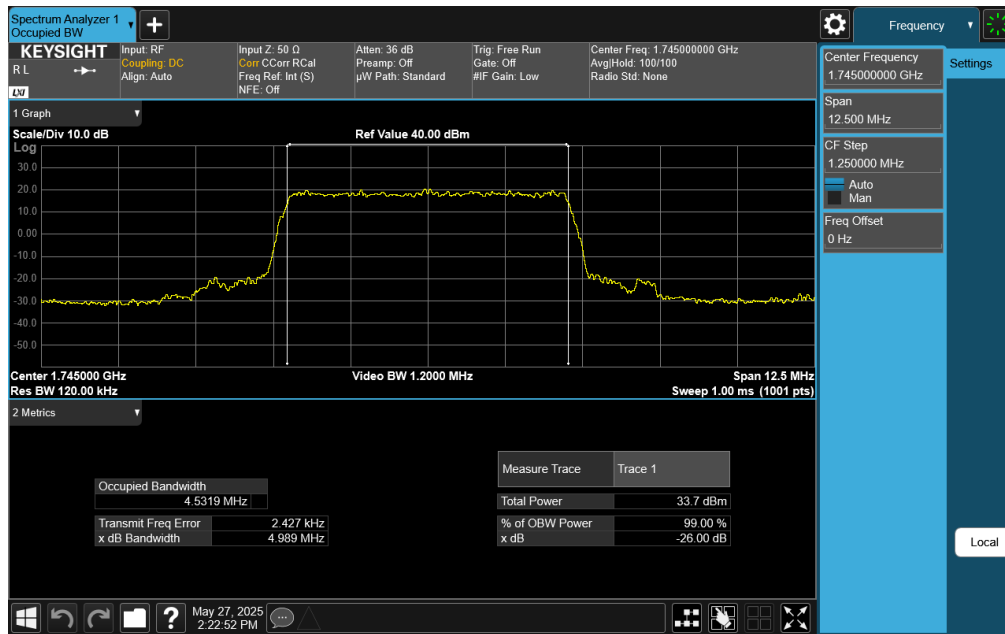


Plot 7-6. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB)

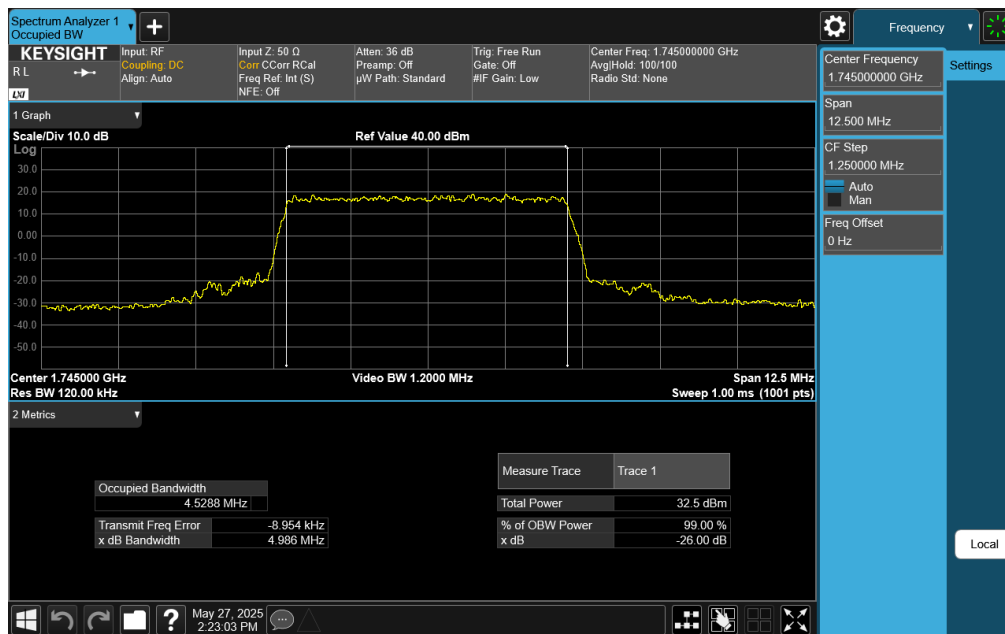
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-9. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)

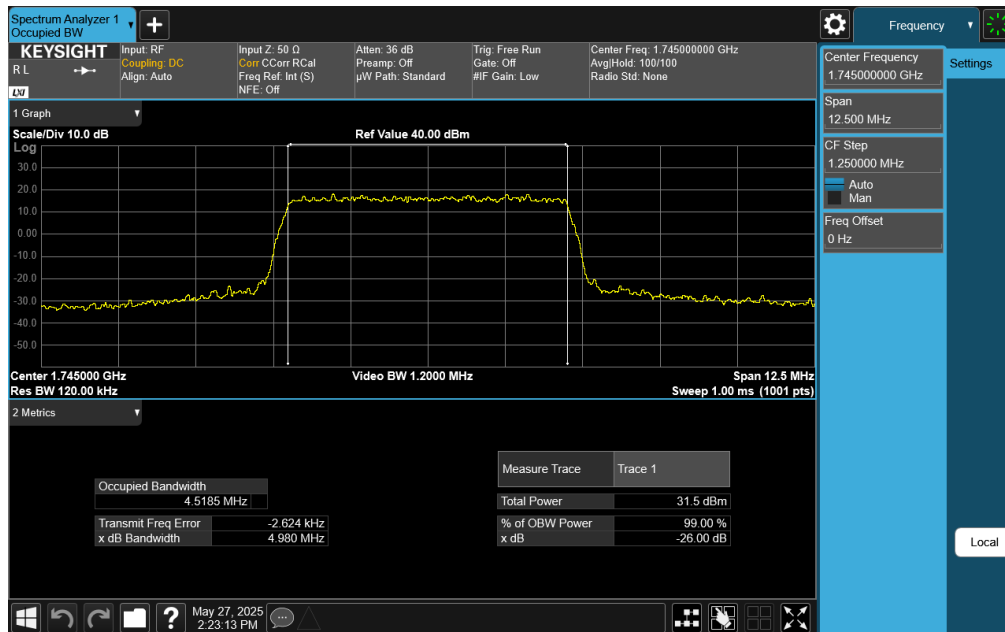


Plot 7-10. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB)

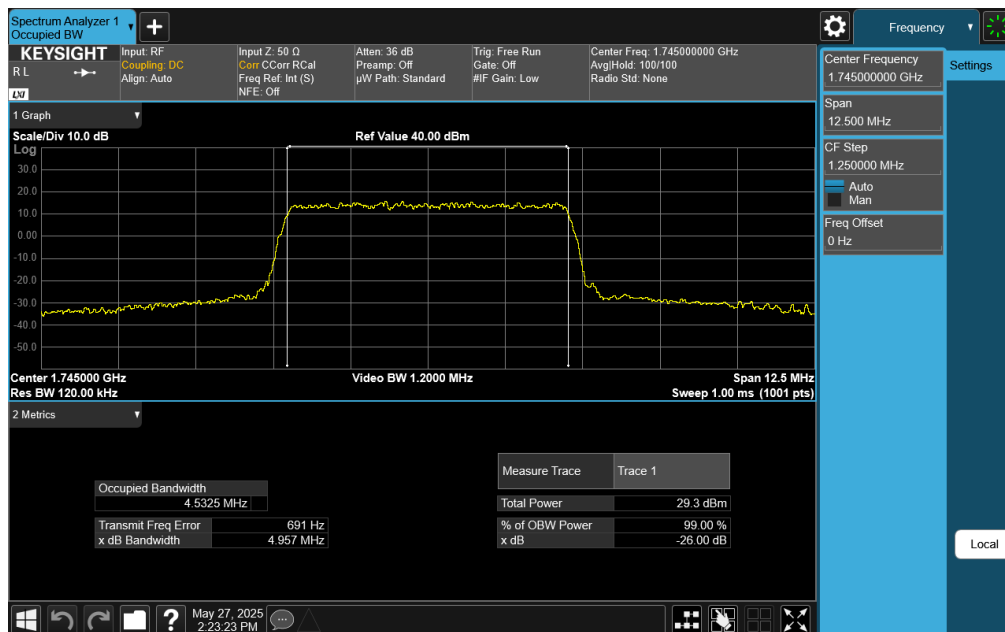
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-11. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 64-QAM - Full RB)

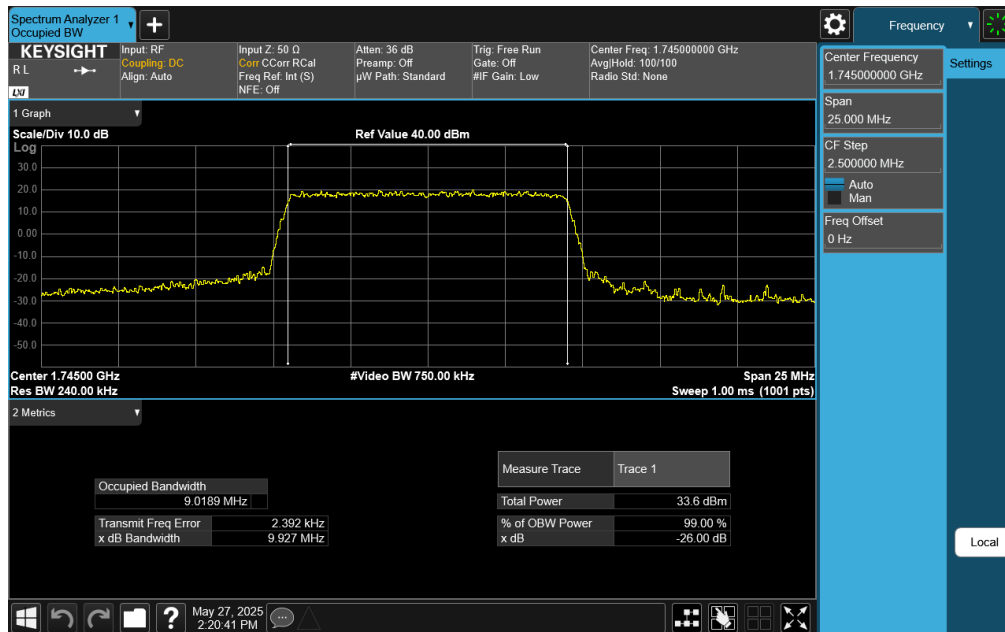


Plot 7-12. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB)

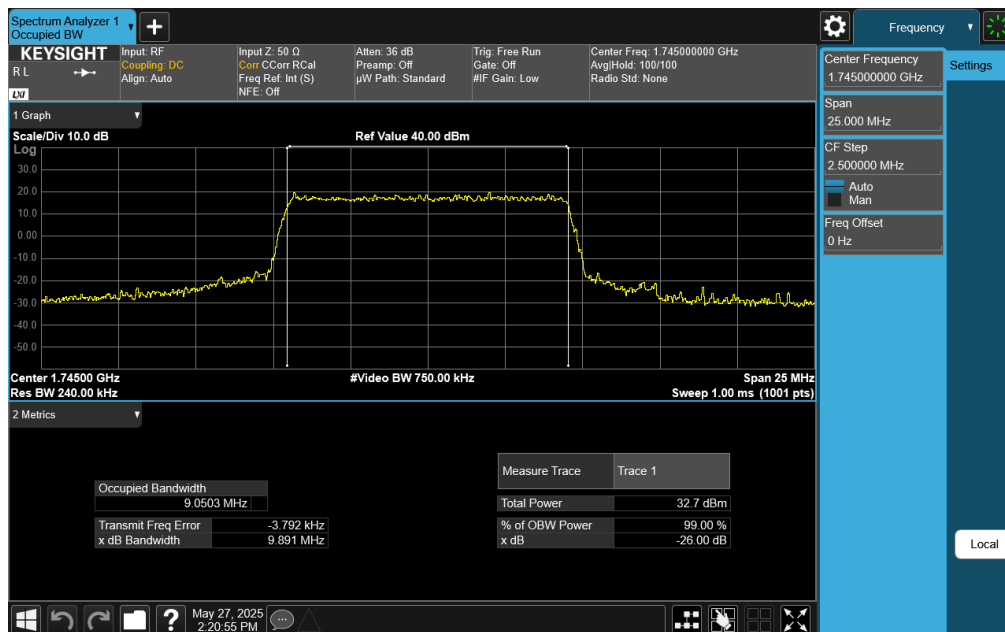
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)

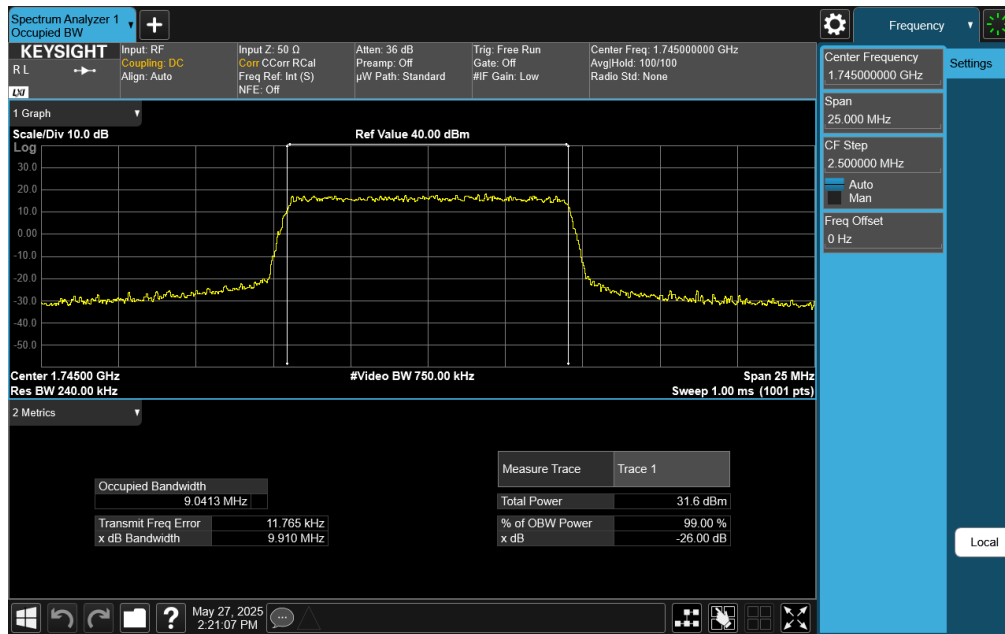


Plot 7-14. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB)

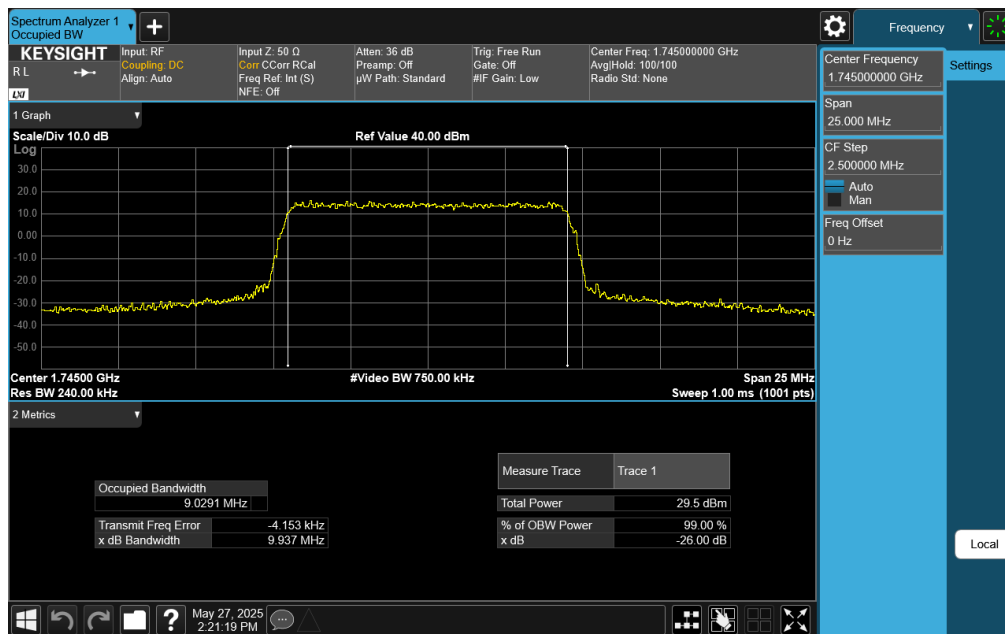
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 64-QAM - Full RB)

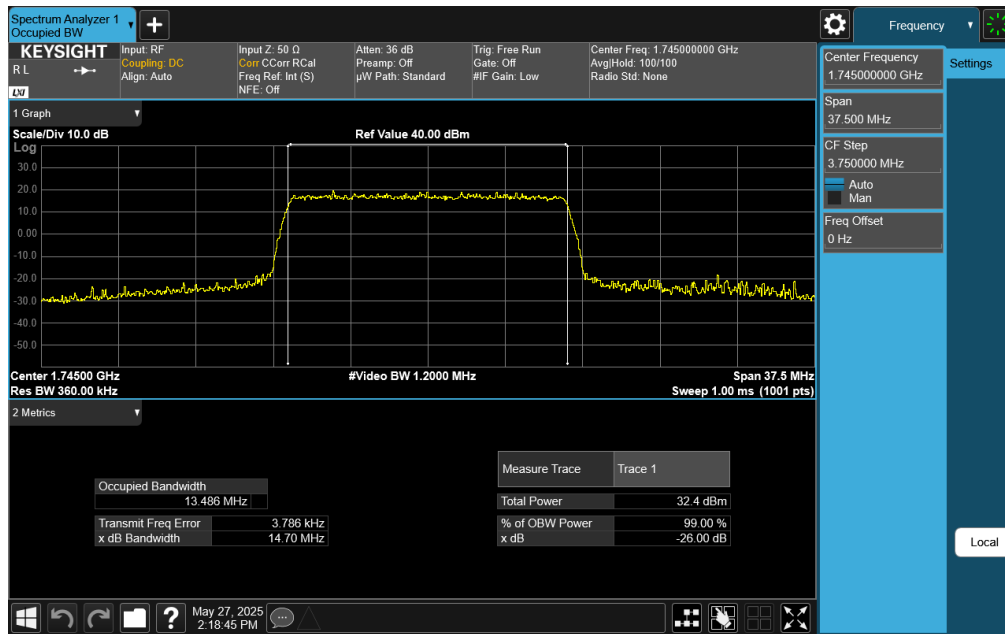


Plot 7-16. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB)

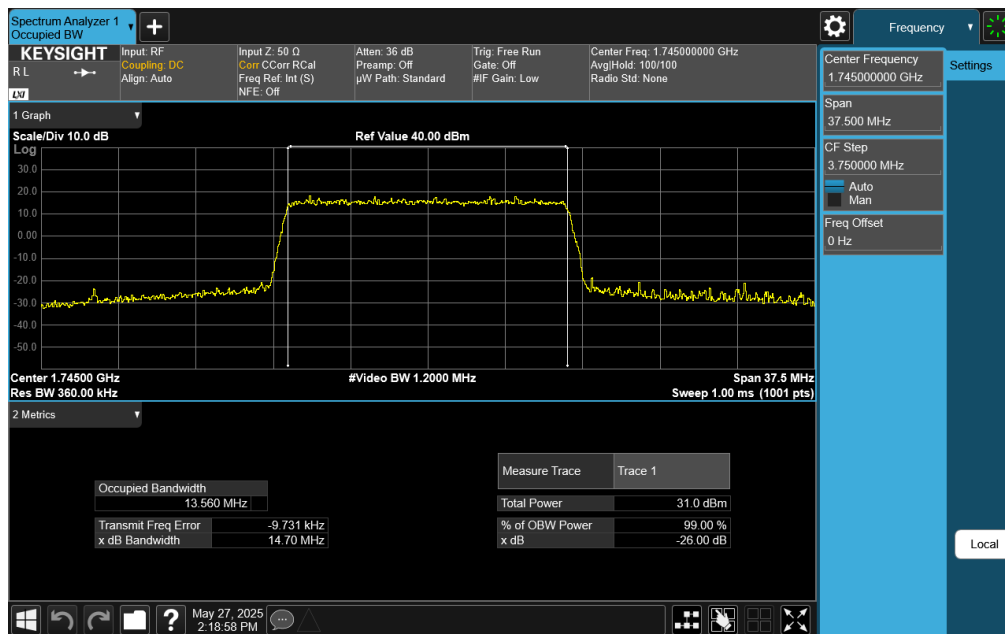
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 64-QAM - Full RB)

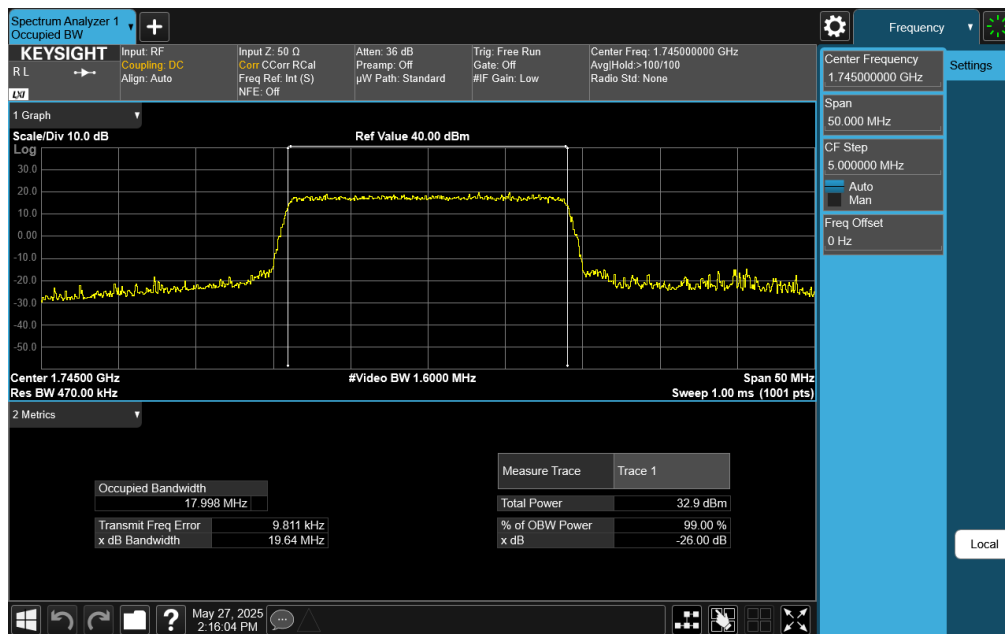
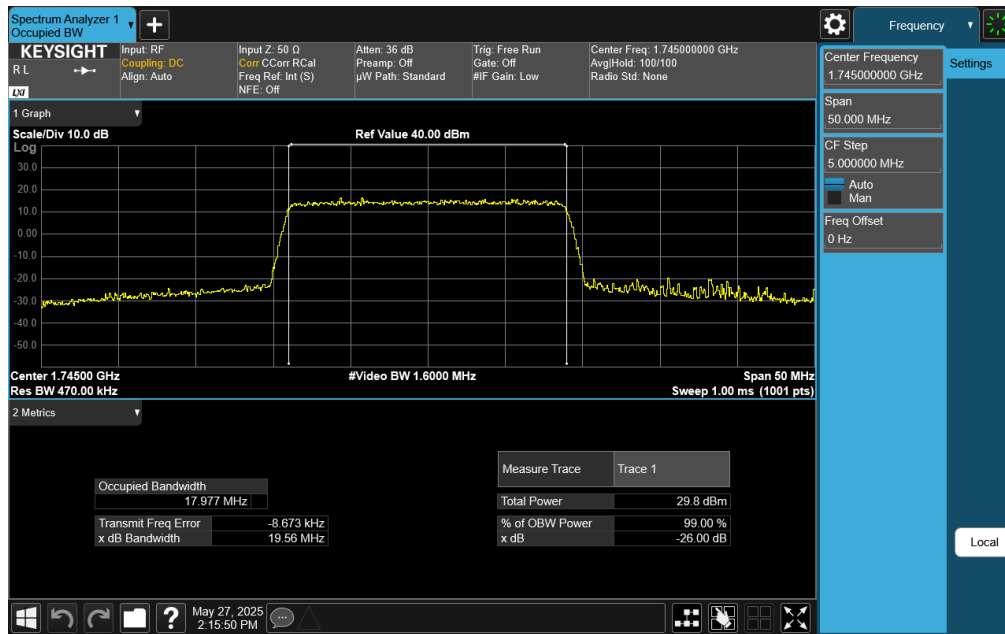


Plot 7-20. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB)

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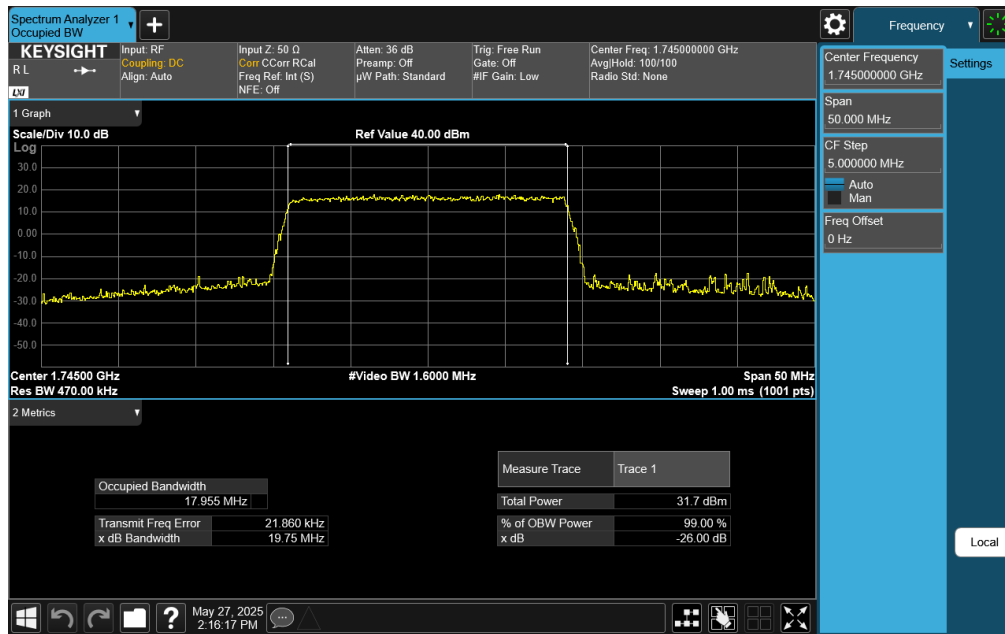
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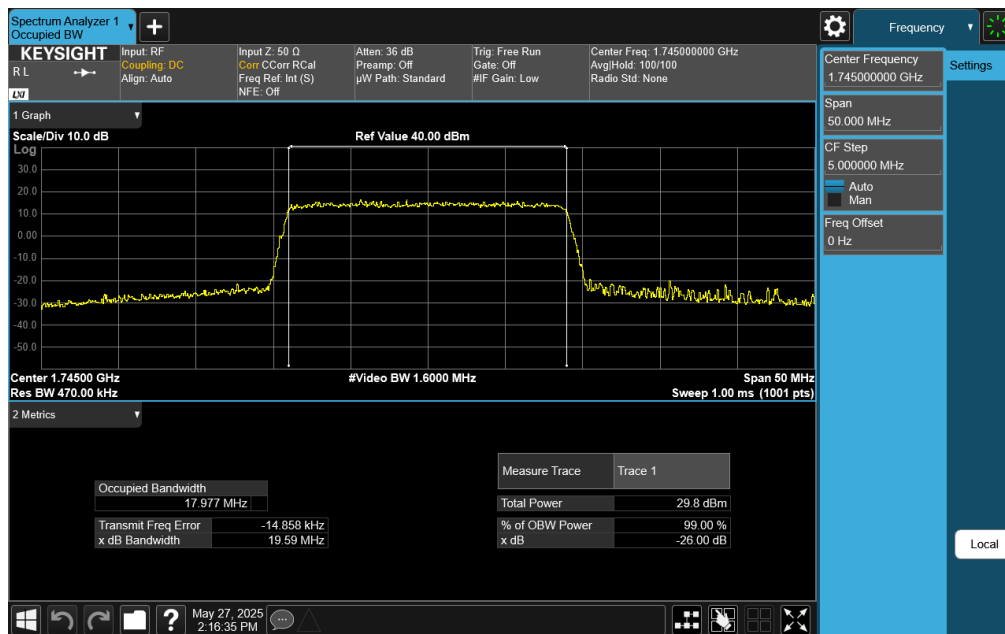
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-23. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 64-QAM - Full RB)



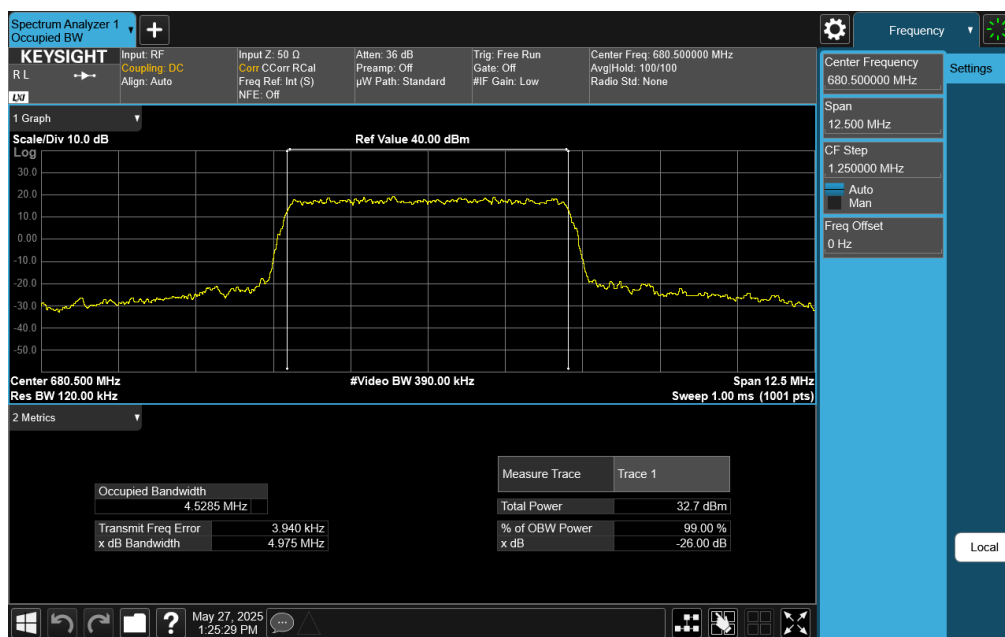
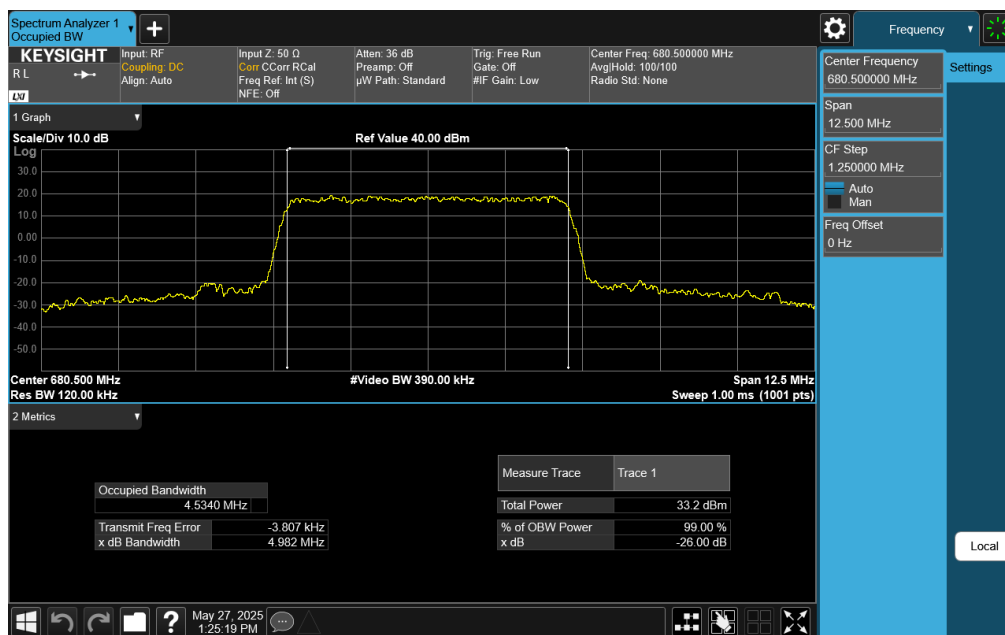
Plot 7-24. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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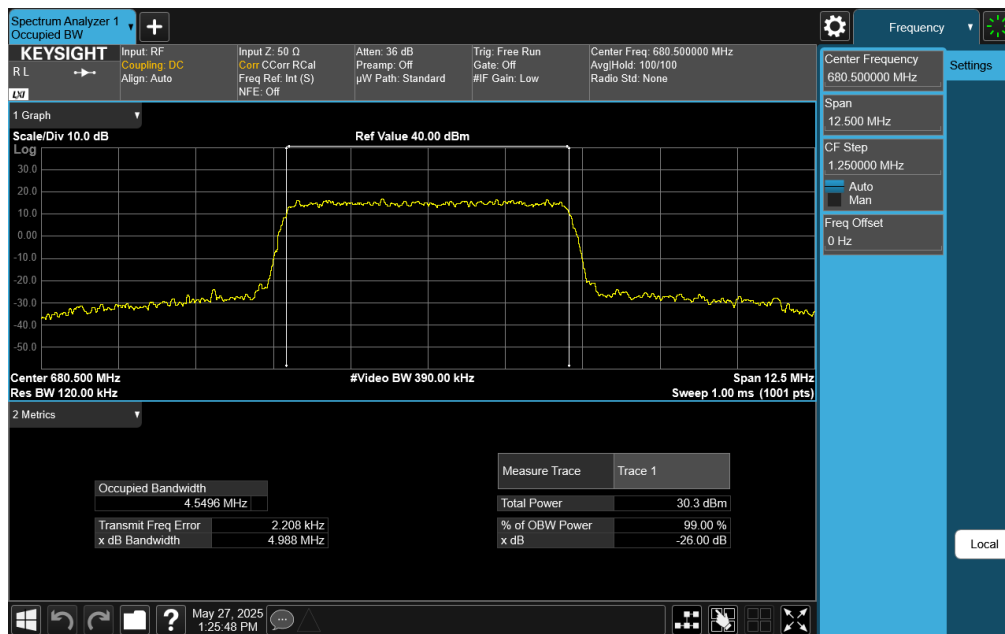
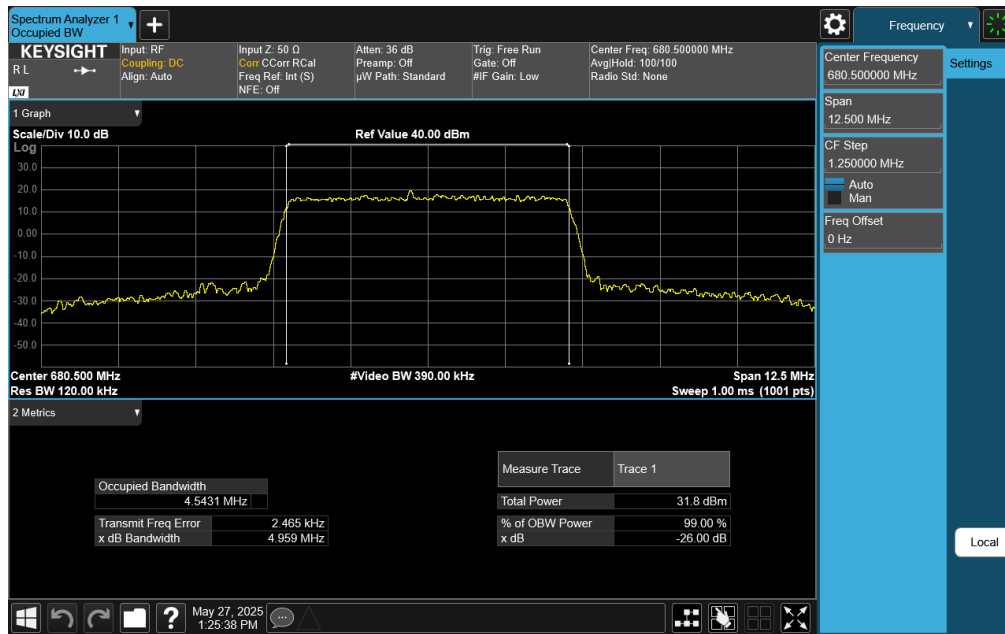
LTE Band 71



FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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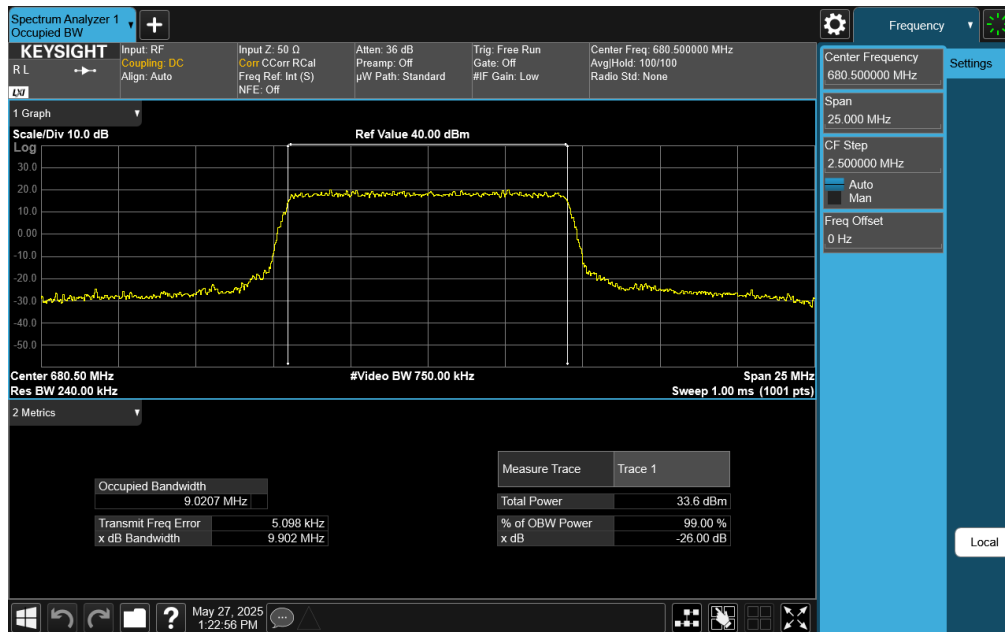
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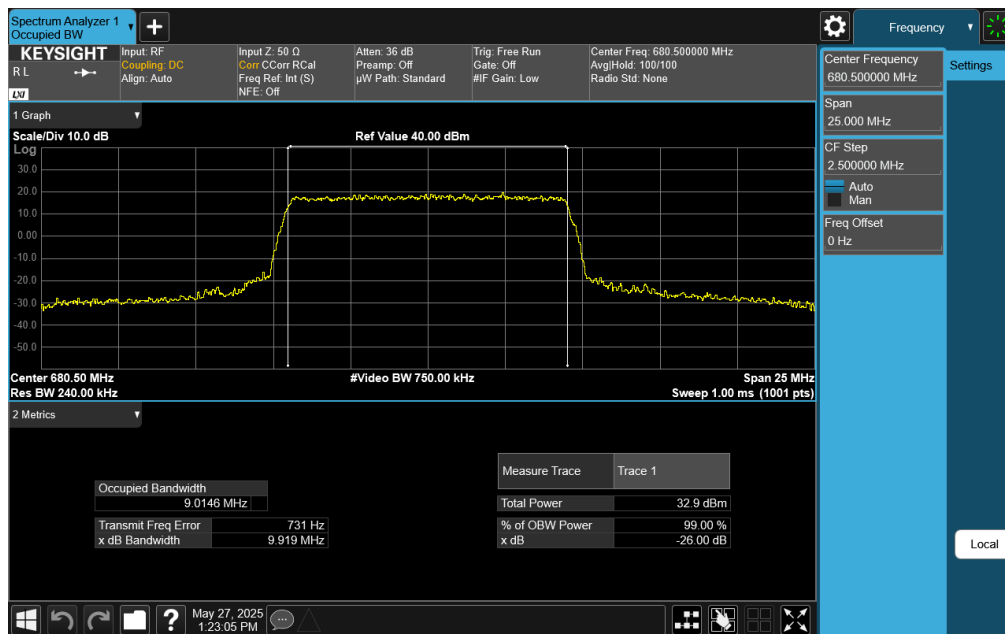
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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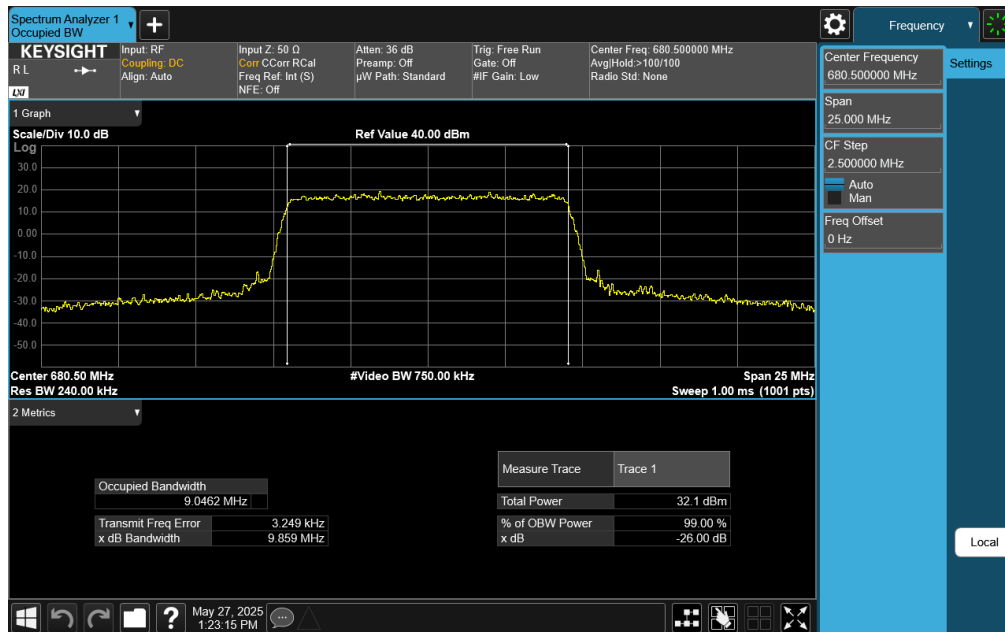
Plot 7-29. Occupied Bandwidth Plot (LTE Band 71 - 10MHz QPSK - Full RB)



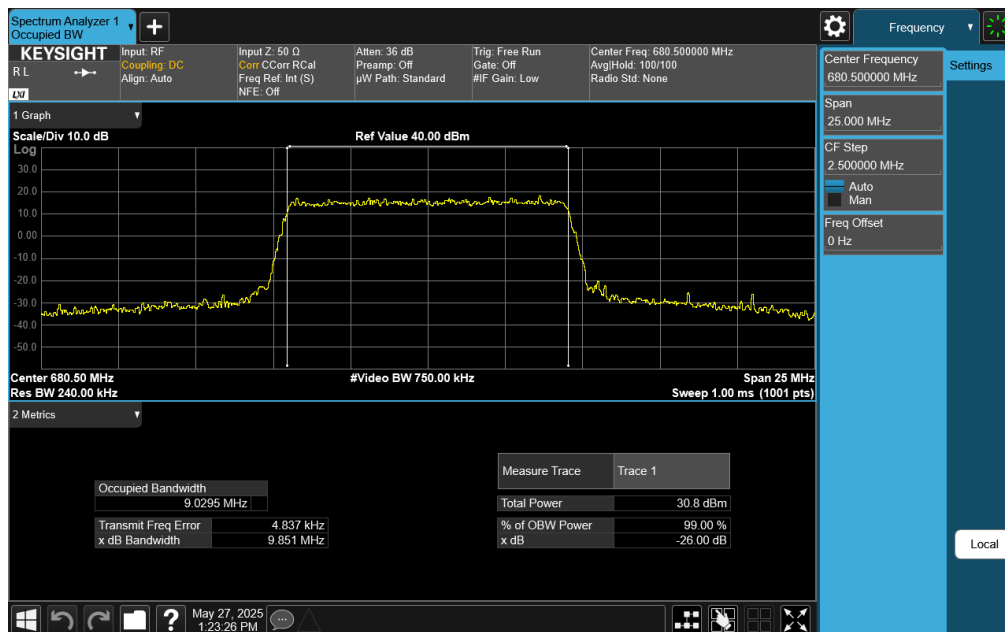
Plot 7-30. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB)

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Plot 7-31. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 64-QAM - Full RB)

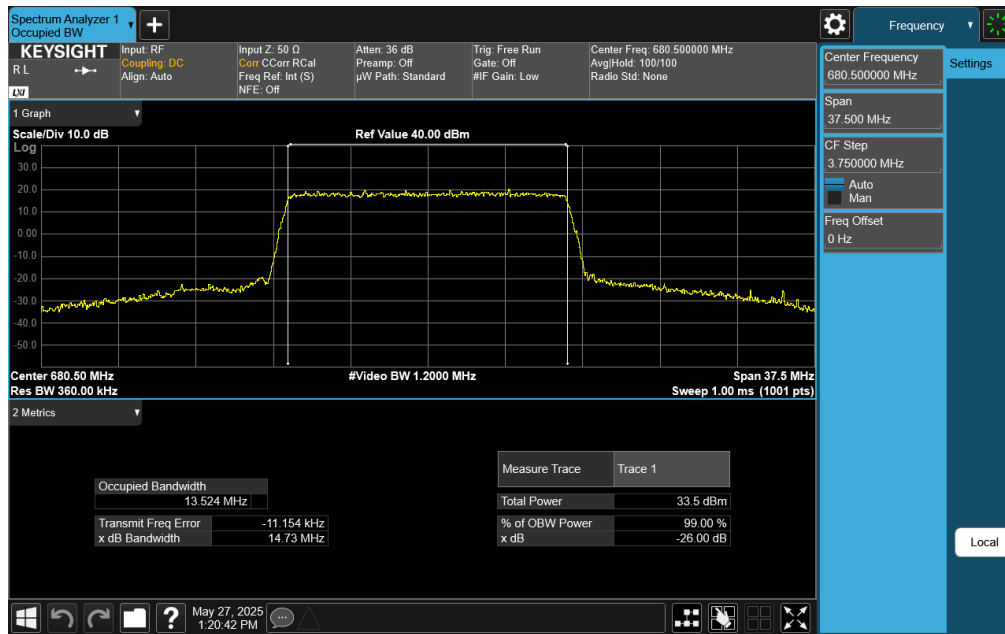


Plot 7-32. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 256-QAM - Full RB)

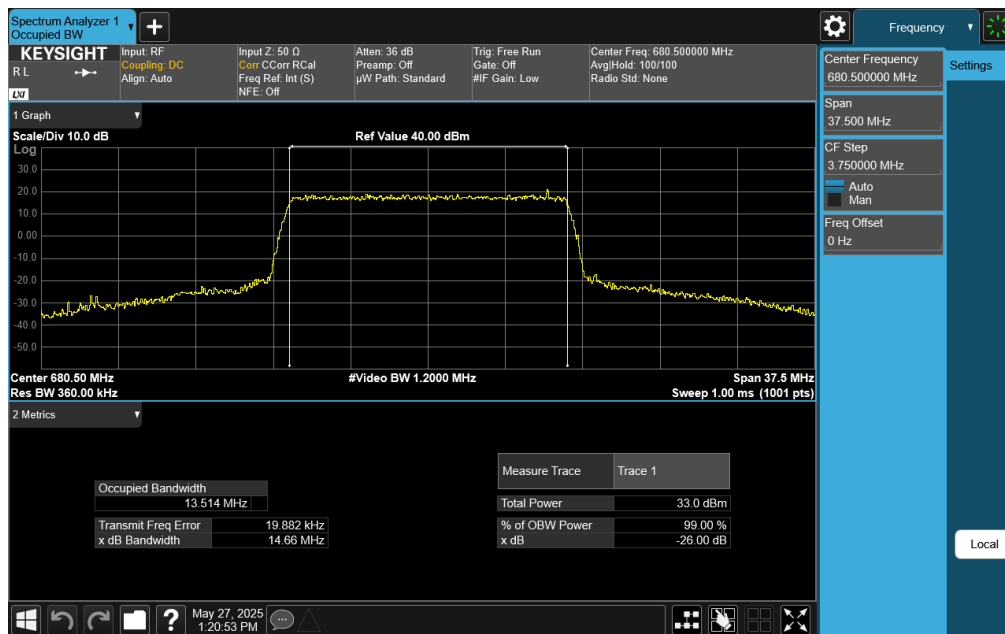
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-33. Occupied Bandwidth Plot (LTE Band 71 - 15MHz QPSK - Full RB)

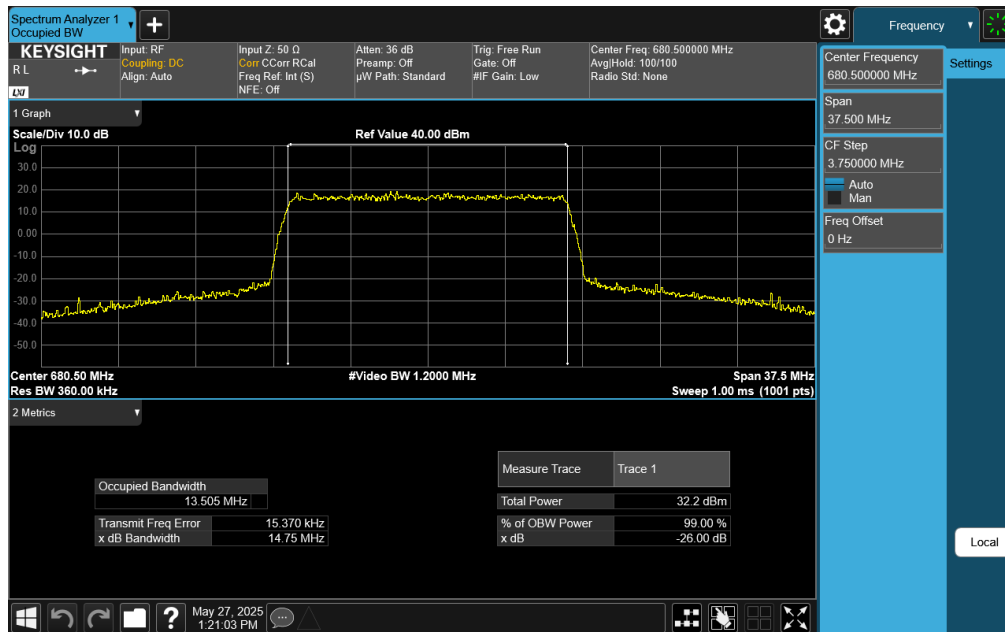


Plot 7-34. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 16-QAM - Full RB)

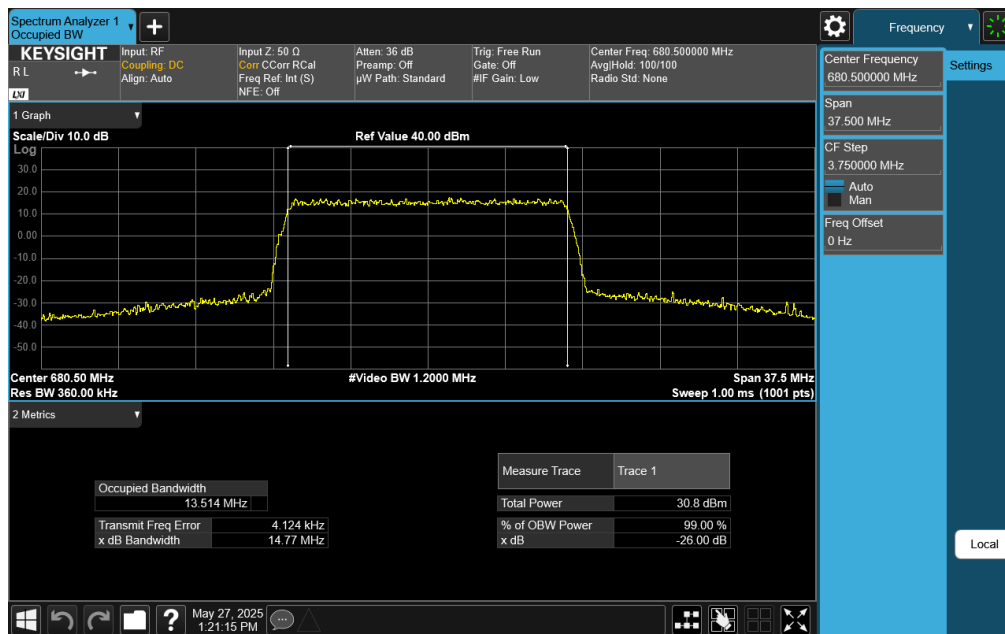
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-35. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 64-QAM - Full RB)

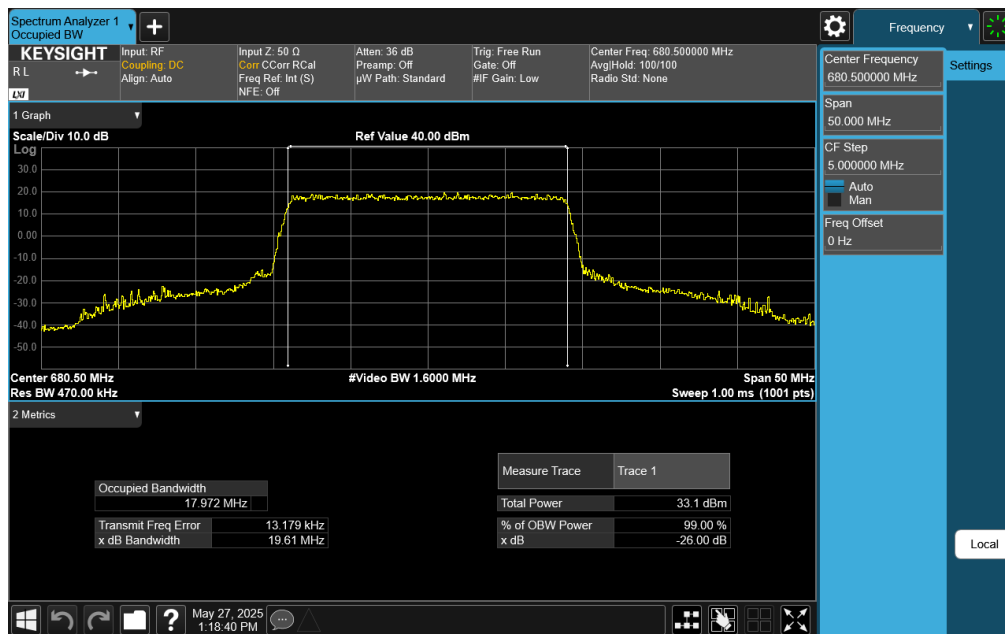
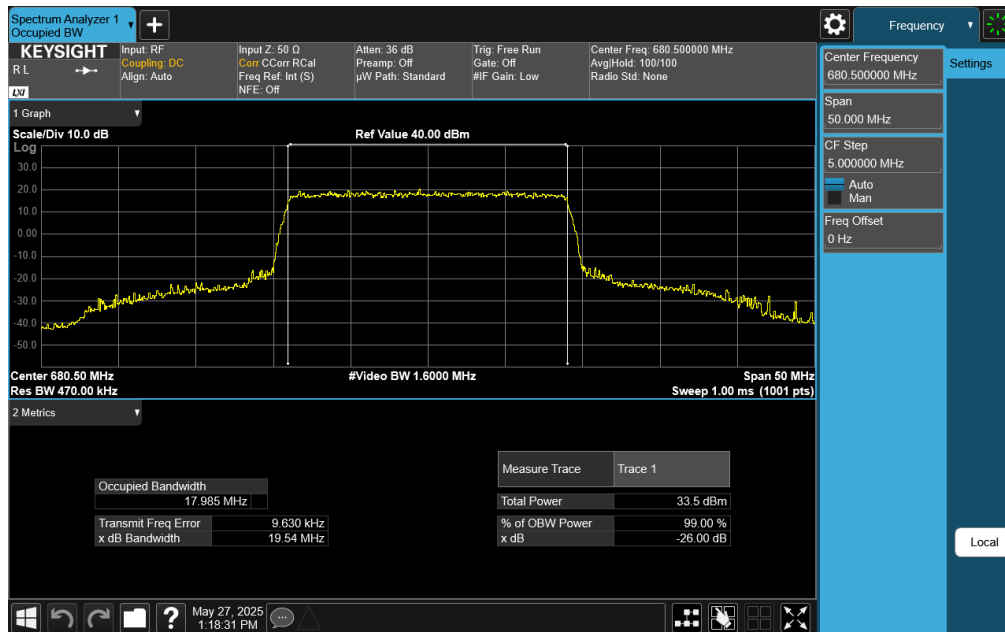


Plot 7-36. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 256-QAM - Full RB)

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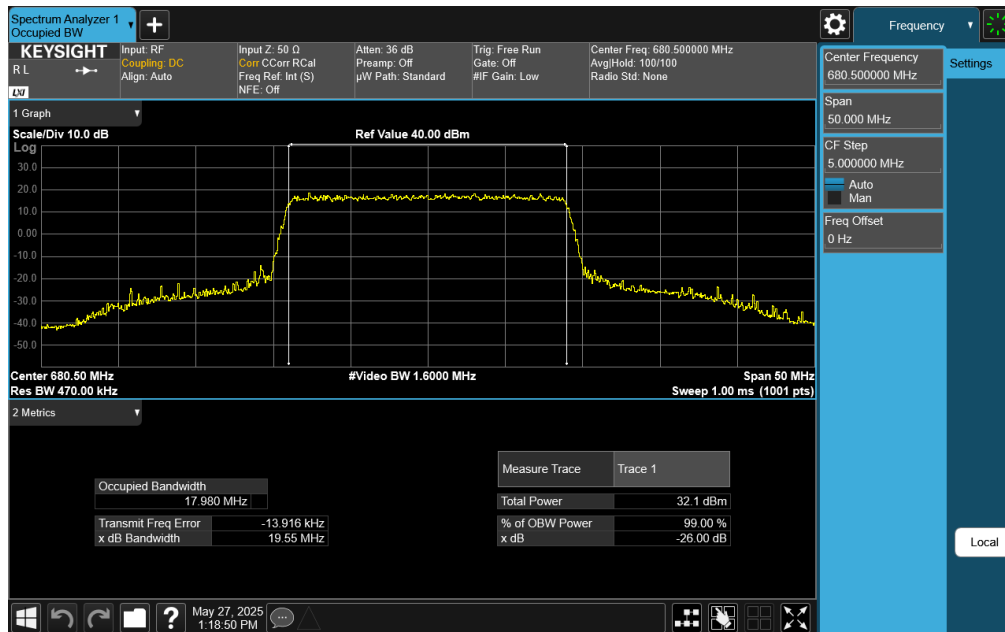
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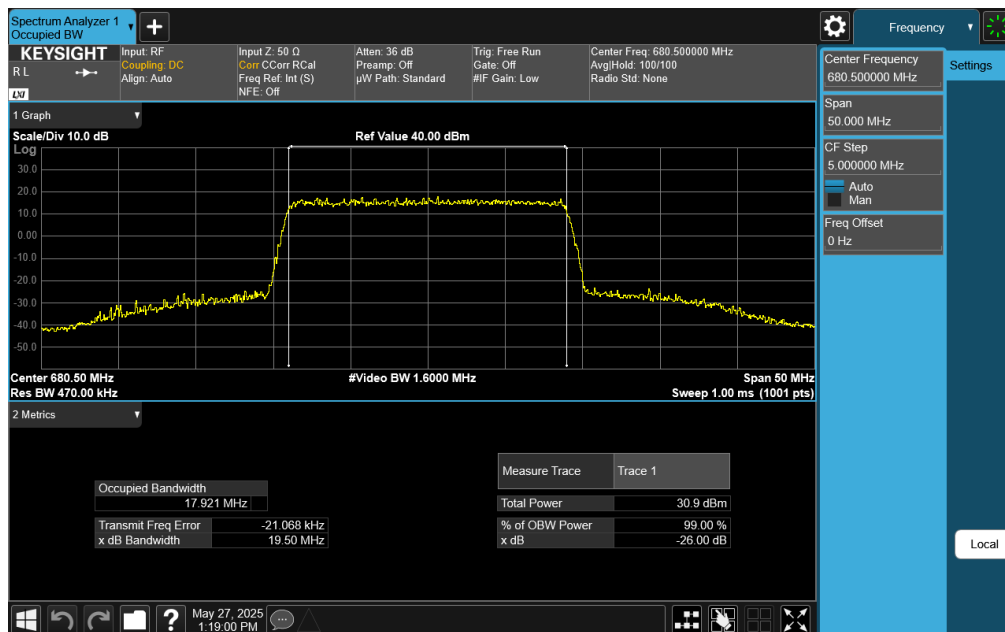
FCC ID: BCGA3358	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-39. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 64-QAM - Full RB)

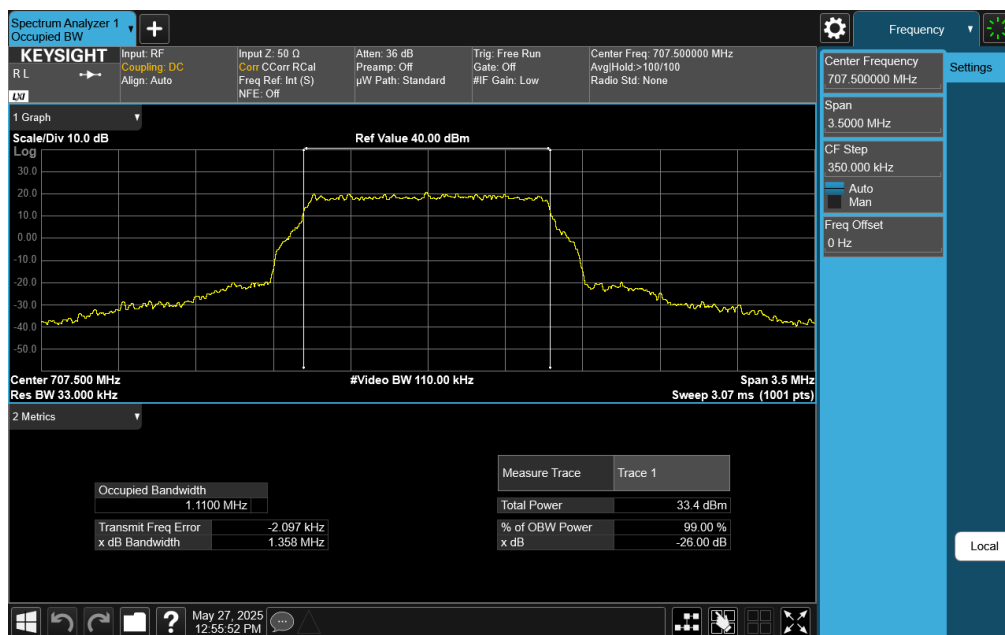


Plot 7-40. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 256-QAM - Full RB)

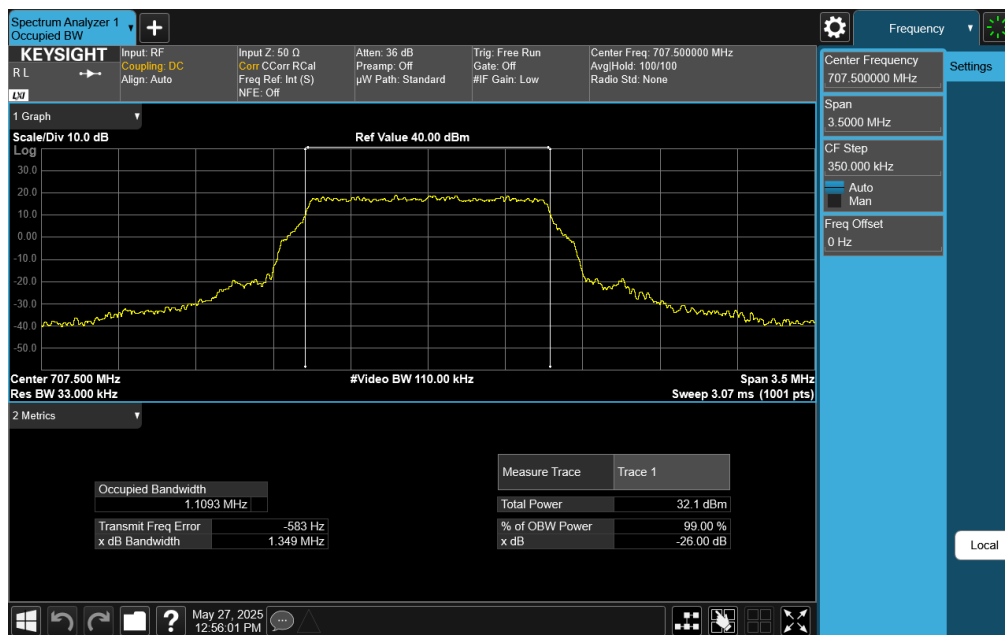
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-41. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz QPSK - Full RB)

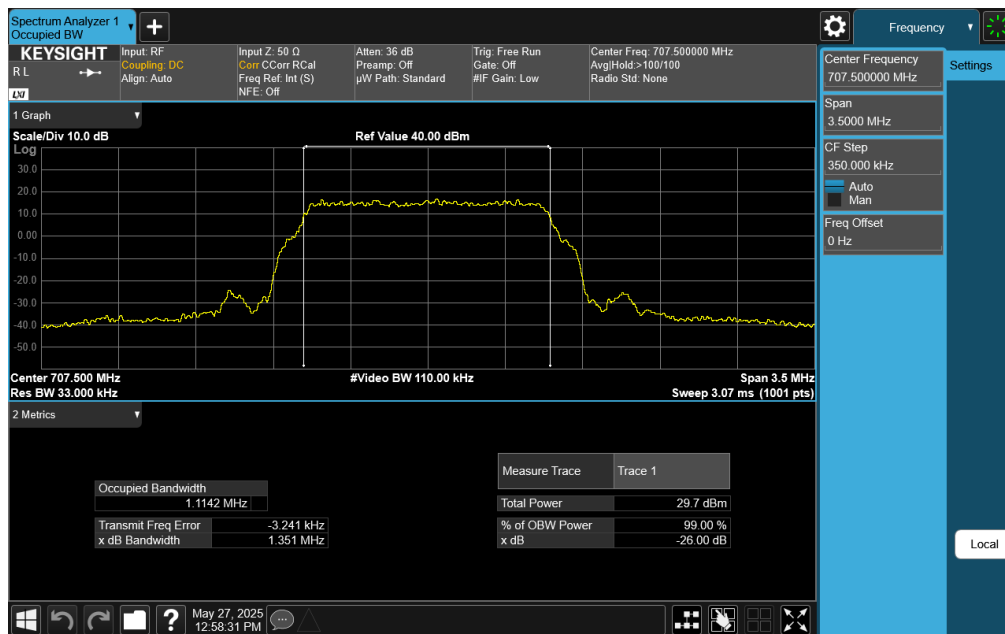


Plot 7-42. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-43. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 64-QAM - Full RB)

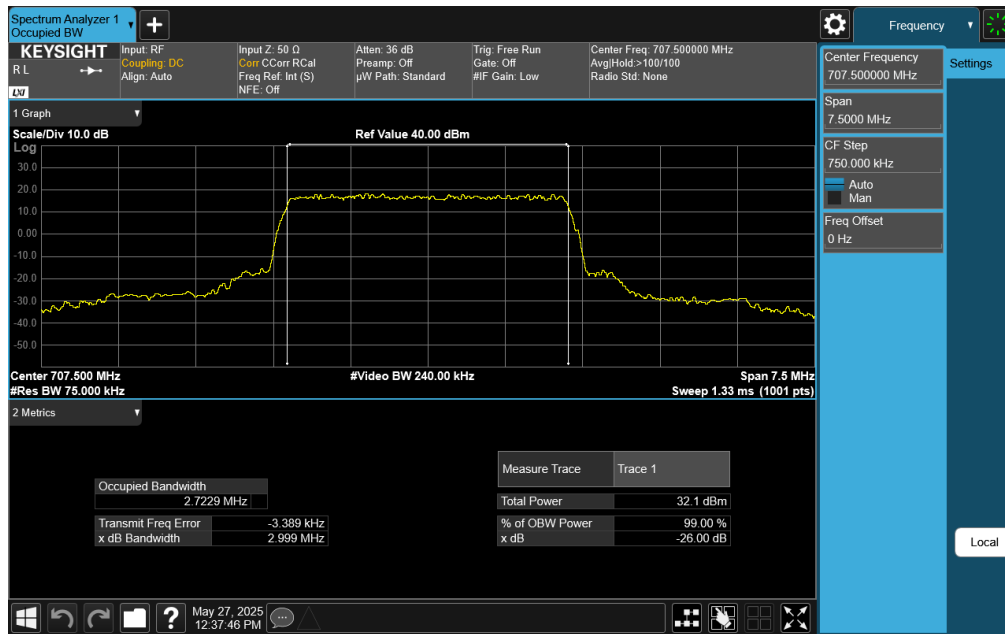


Plot 7-44. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 256-QAM - Full RB)

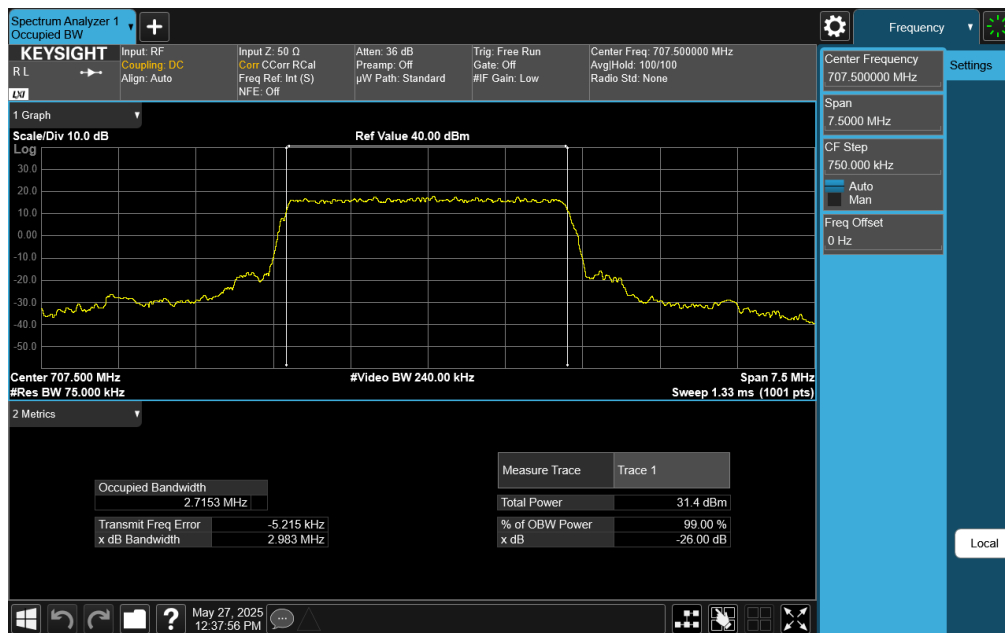
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-45. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB)



Plot 7-46. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB)

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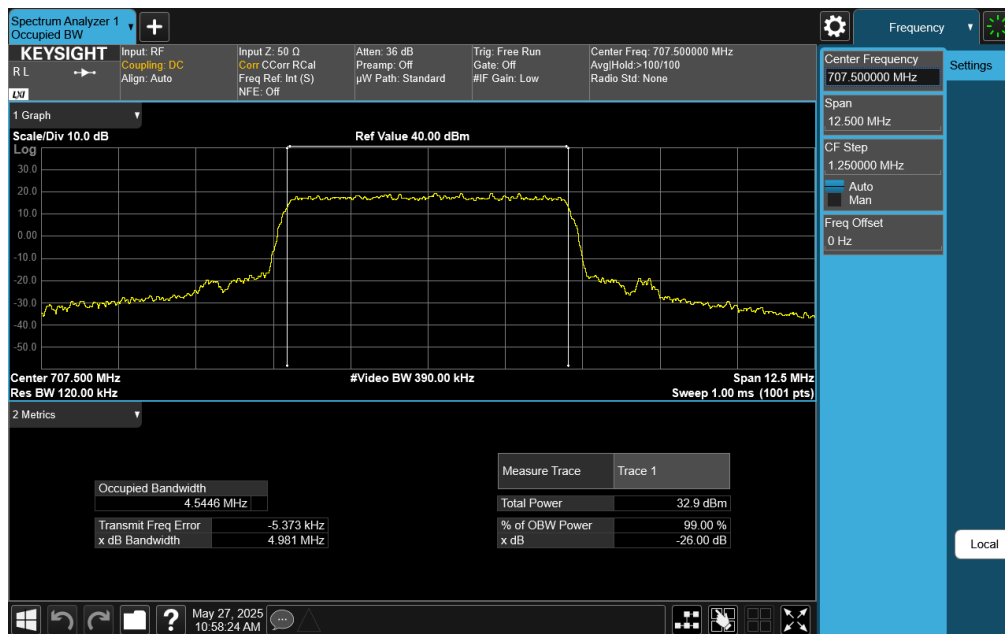
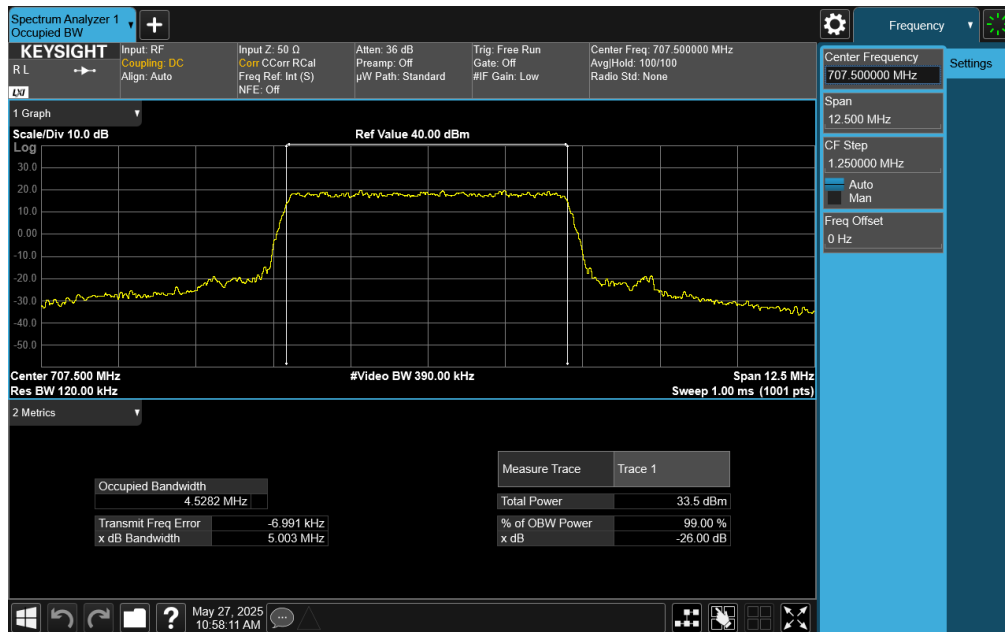
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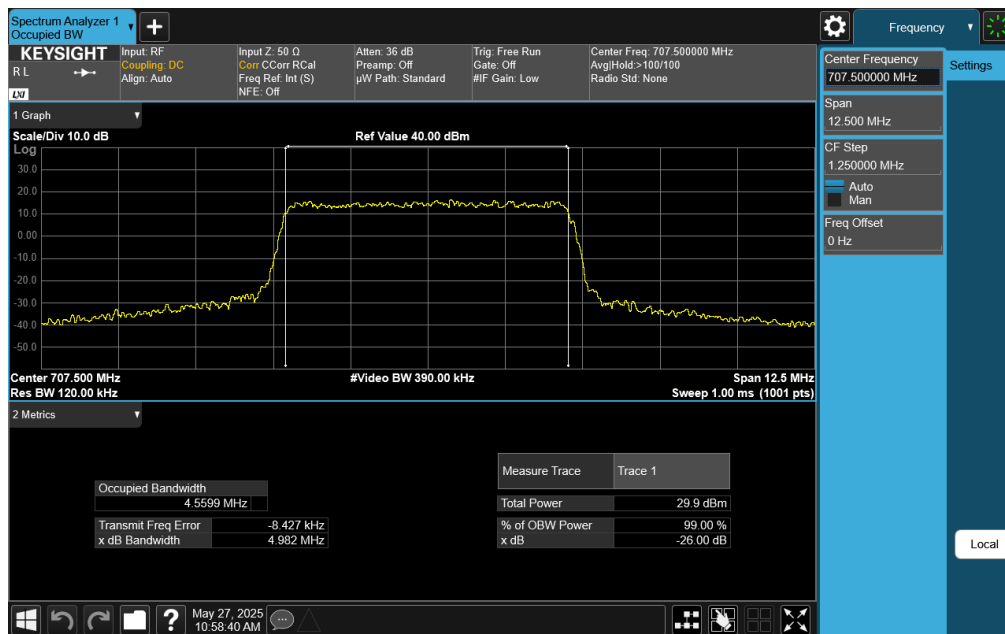
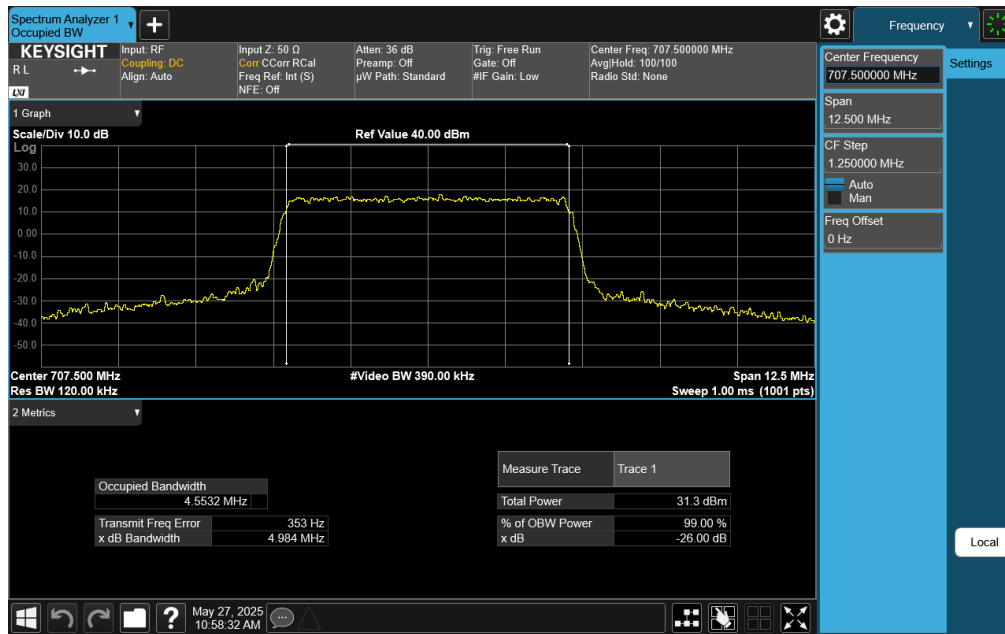
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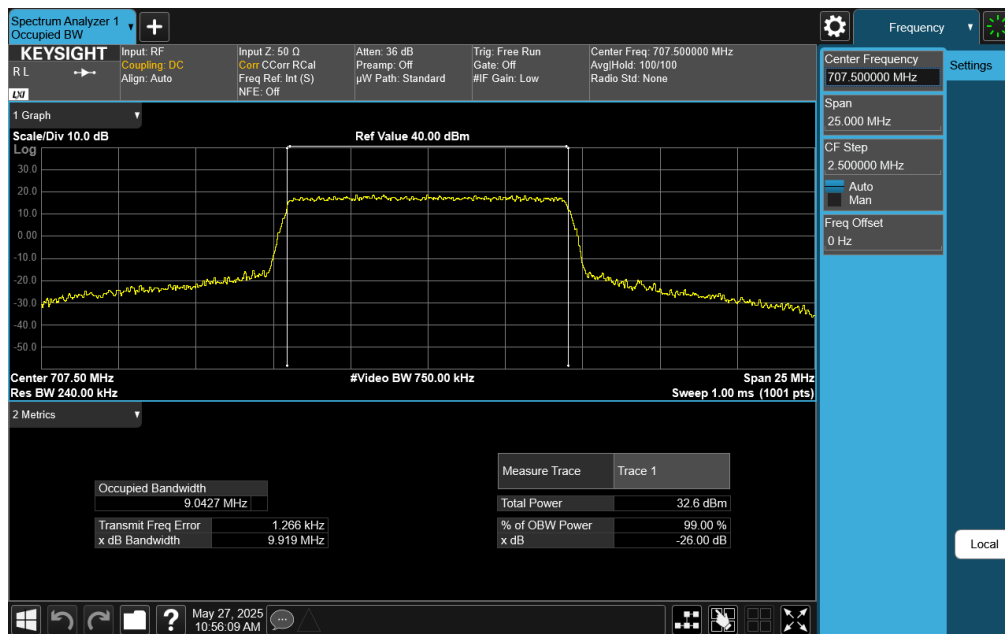
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-53. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB)

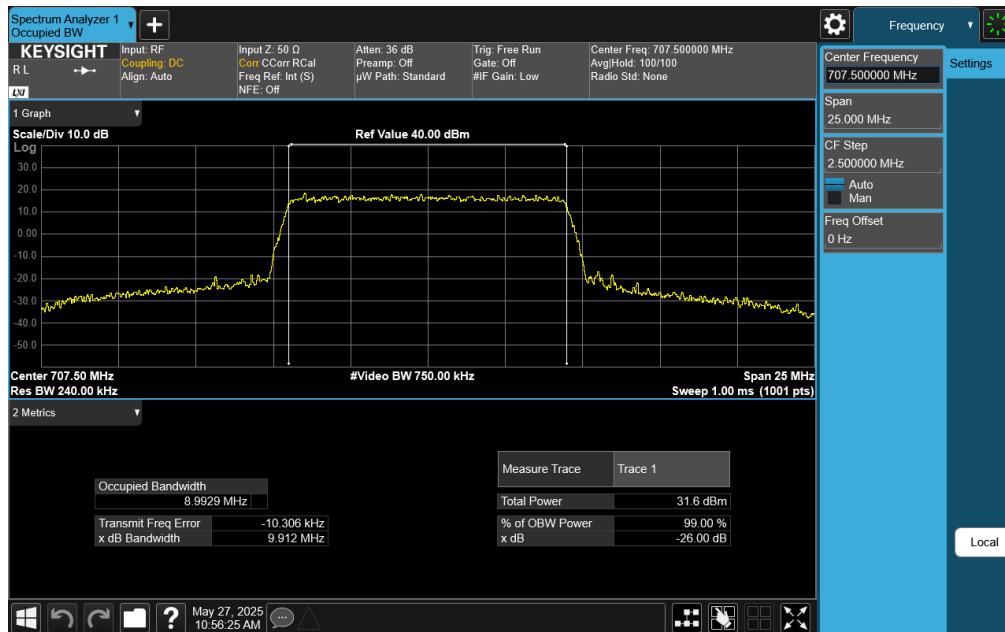


Plot 7-54. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB)

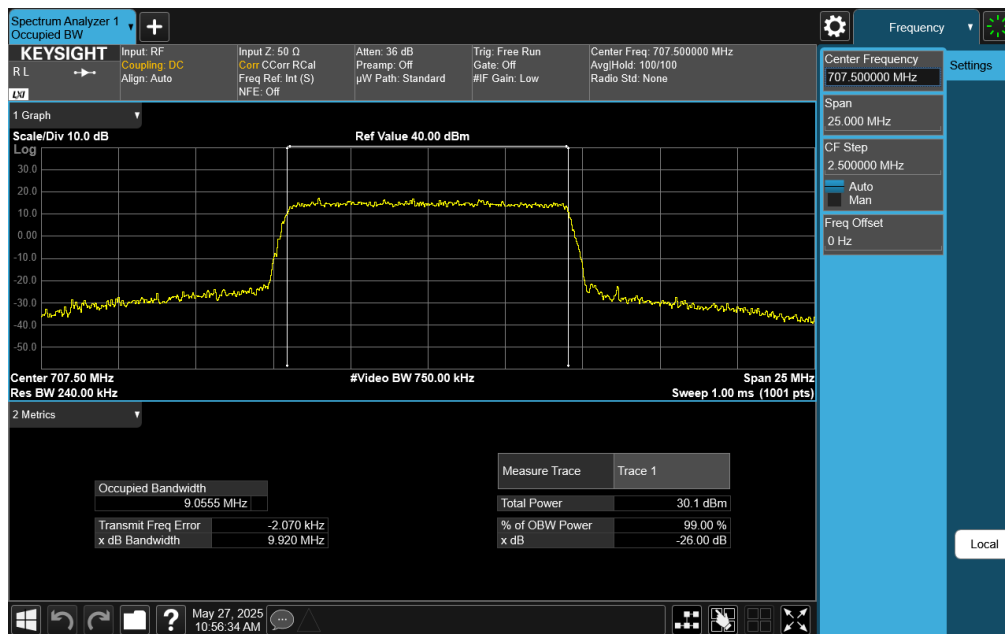
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-55. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 64-QAM - Full RB)



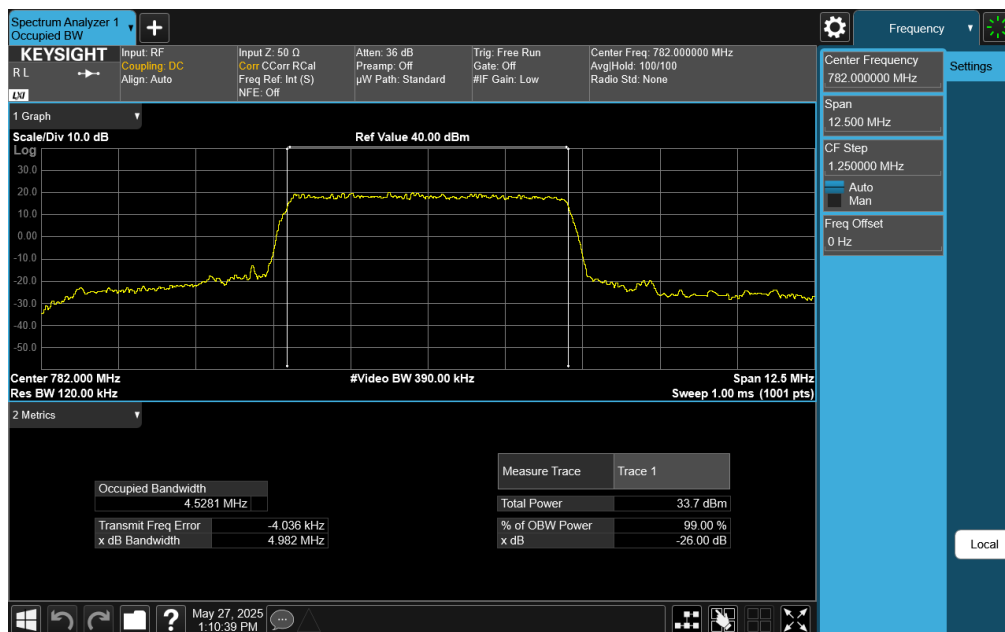
Plot 7-56. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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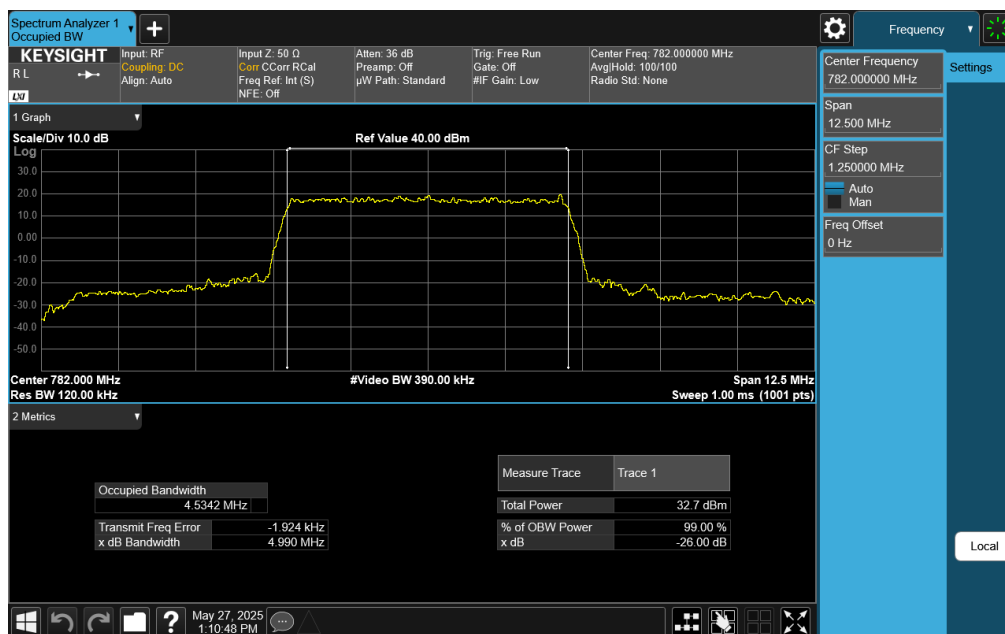
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LTE Band 13



Plot 7-57. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB)



Plot 7-58. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB)

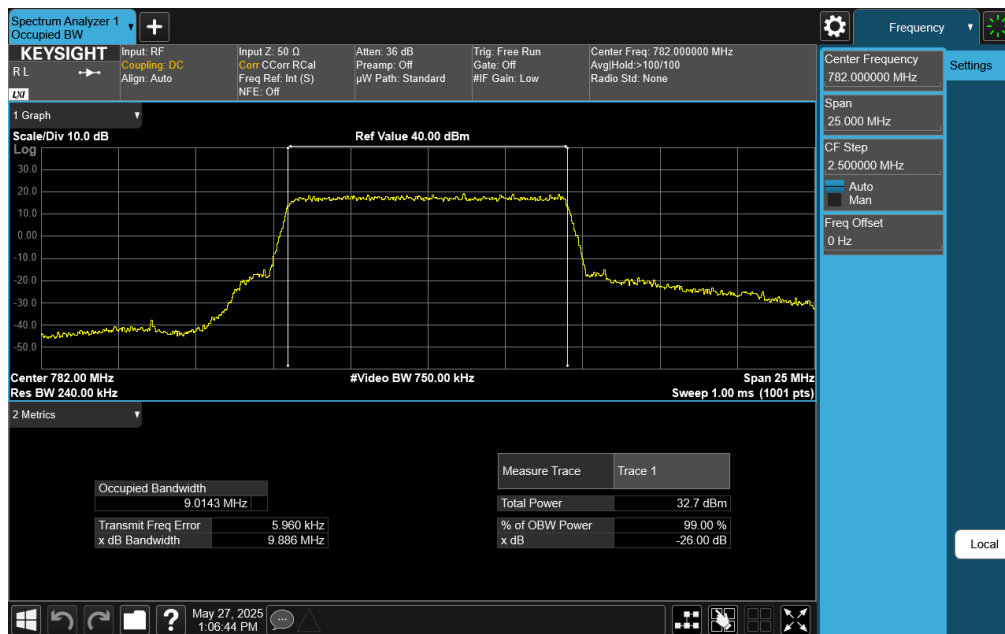
FCC ID: BCGA3358	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-61. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB)

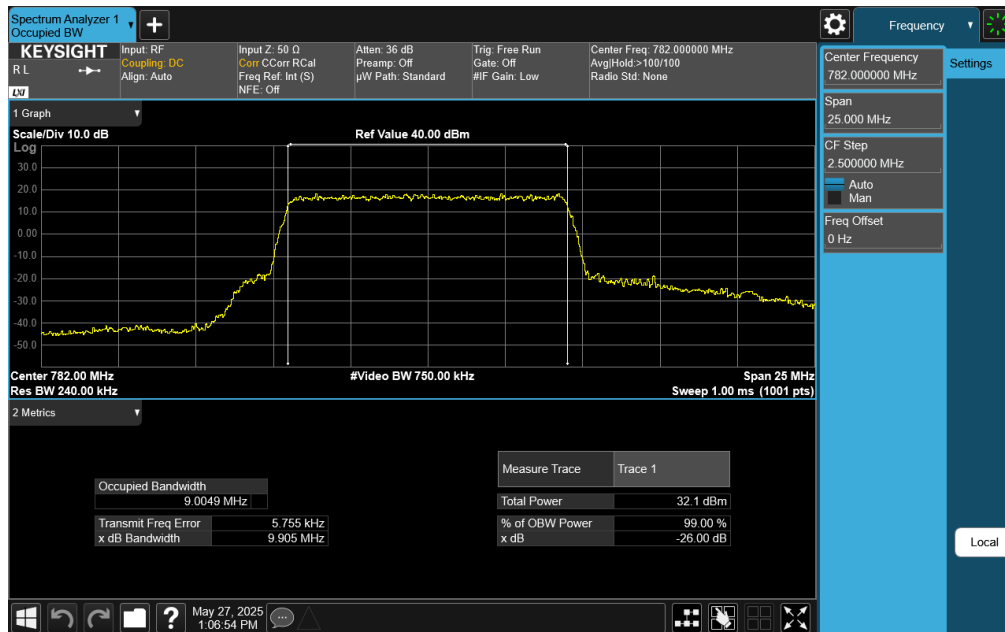


Plot 7-62. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB)

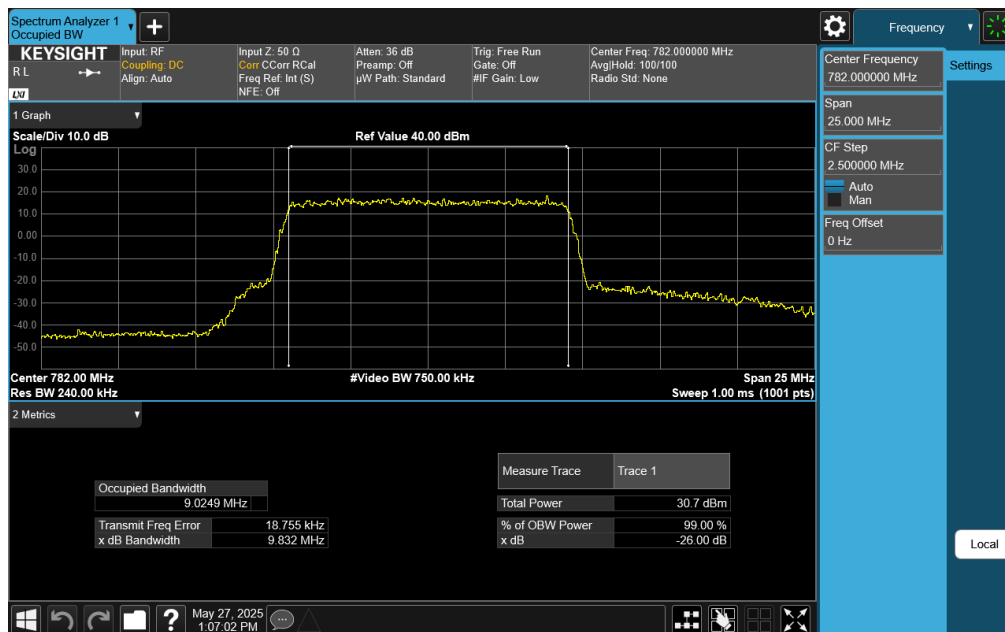
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-63. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 64-QAM - Full RB)

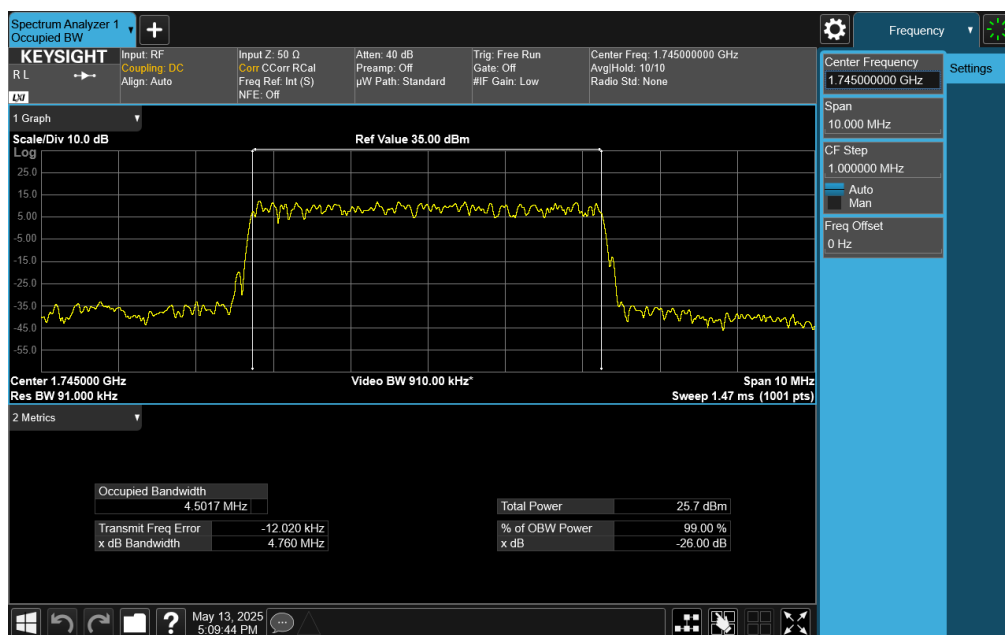


Plot 7-64. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 256-QAM - Full RB)

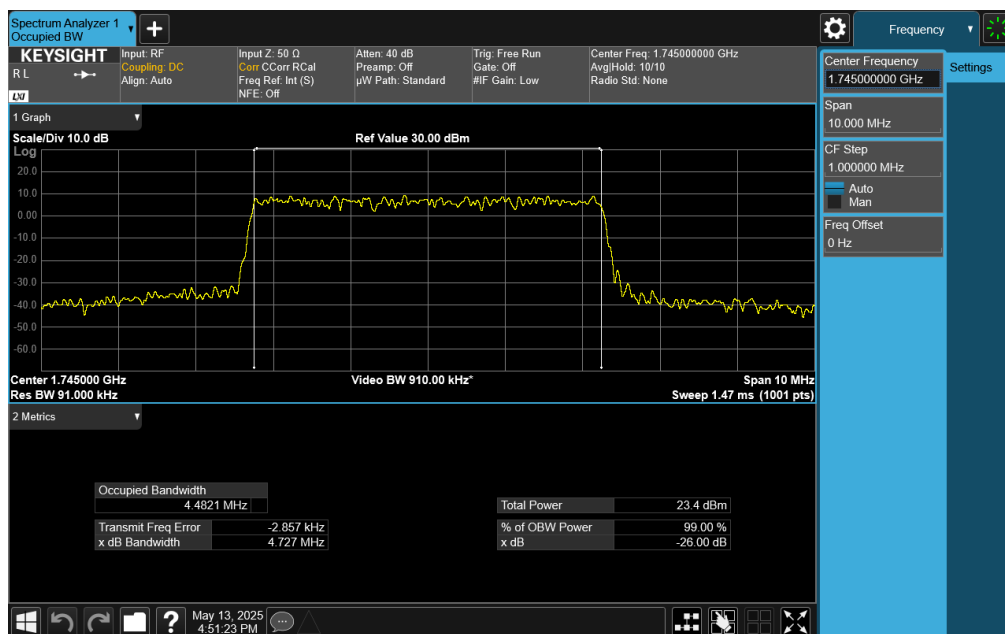
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-65. Occupied Bandwidth Plot (NR Band n66 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

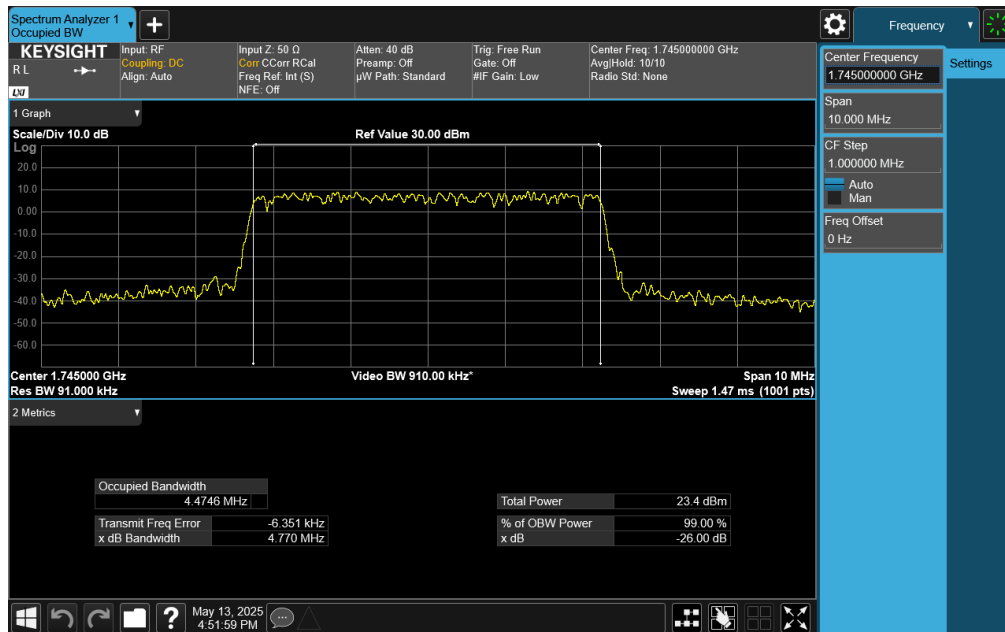


Plot 7-66. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM QPSK - Full RB)

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Plot 7-67. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 16QAM - Full RB)

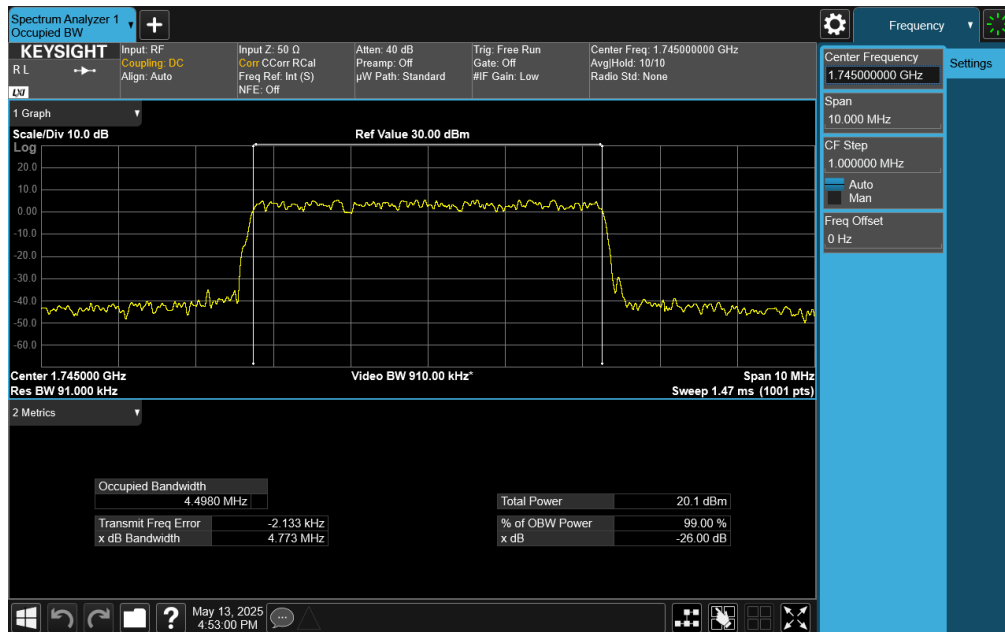


Plot 7-68. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 64QAM - Full RB)

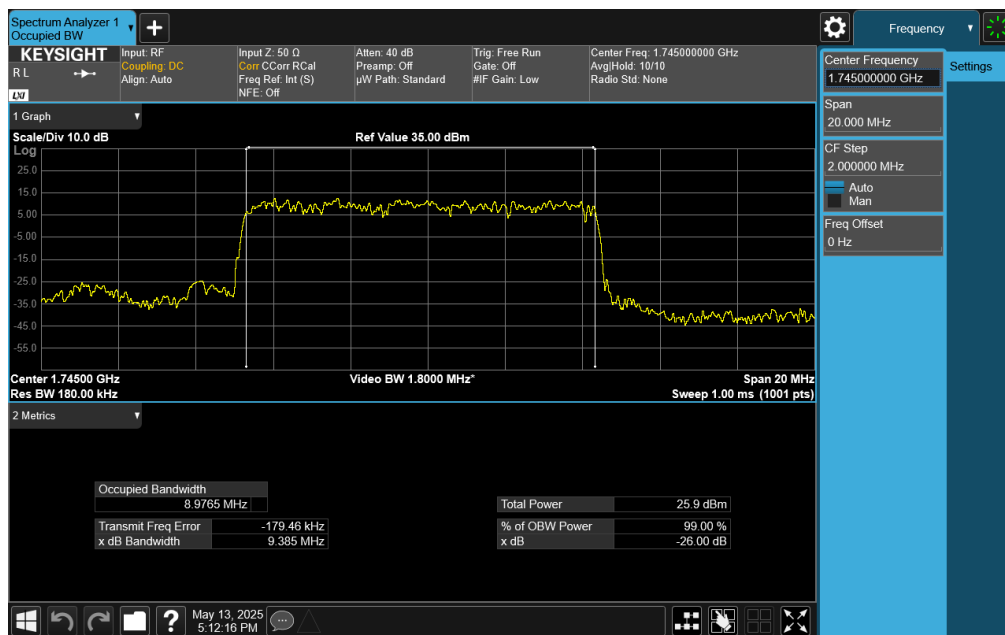
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-69. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 256QAM - Full RB)

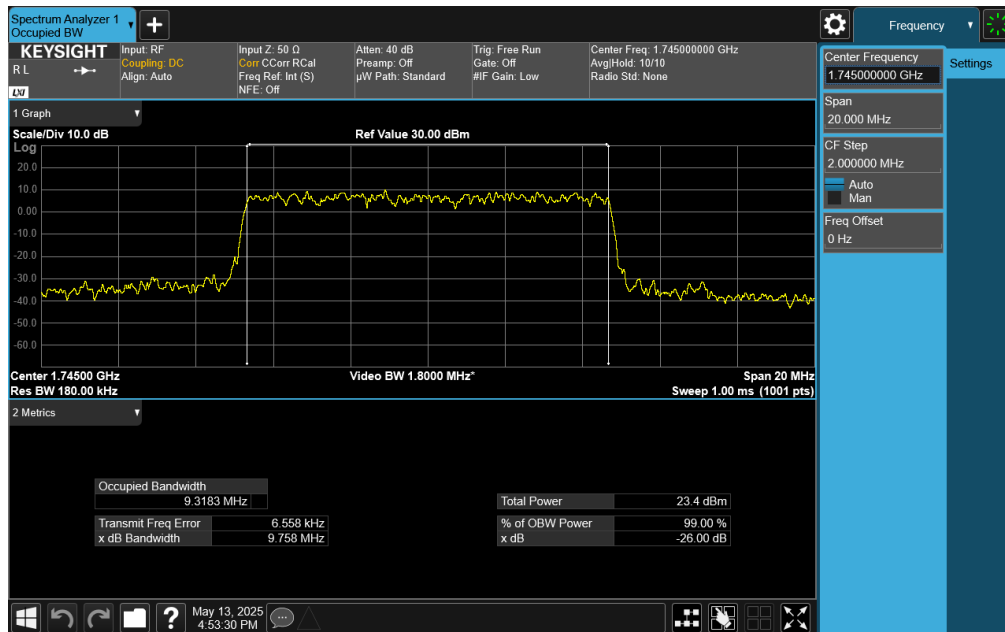


Plot 7-70. Occupied Bandwidth Plot (NR Band n66 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

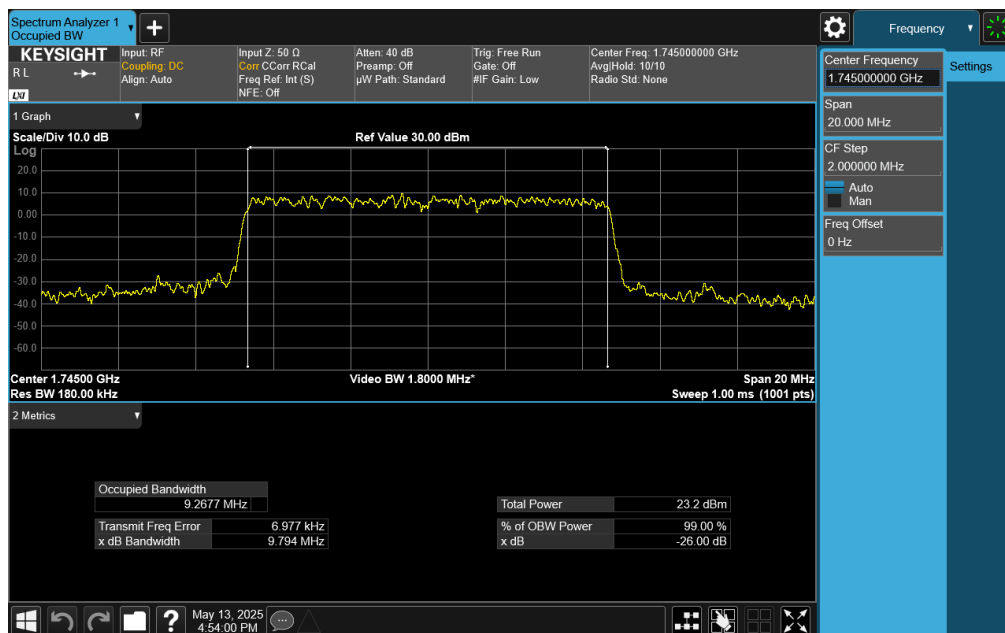
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM QPSK - Full RB)

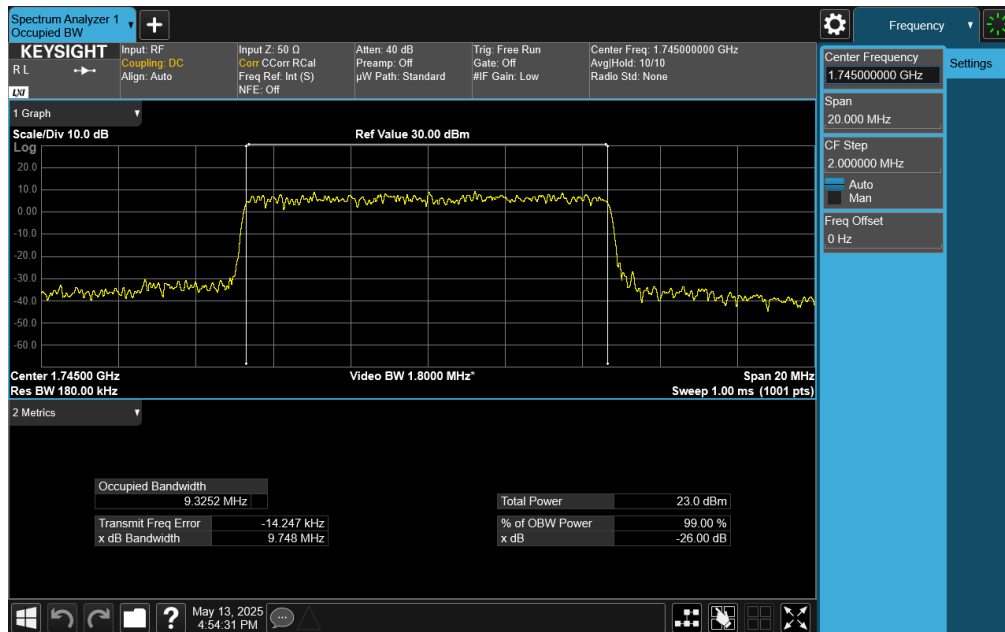


Plot 7-72. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM 16QAM - Full RB)

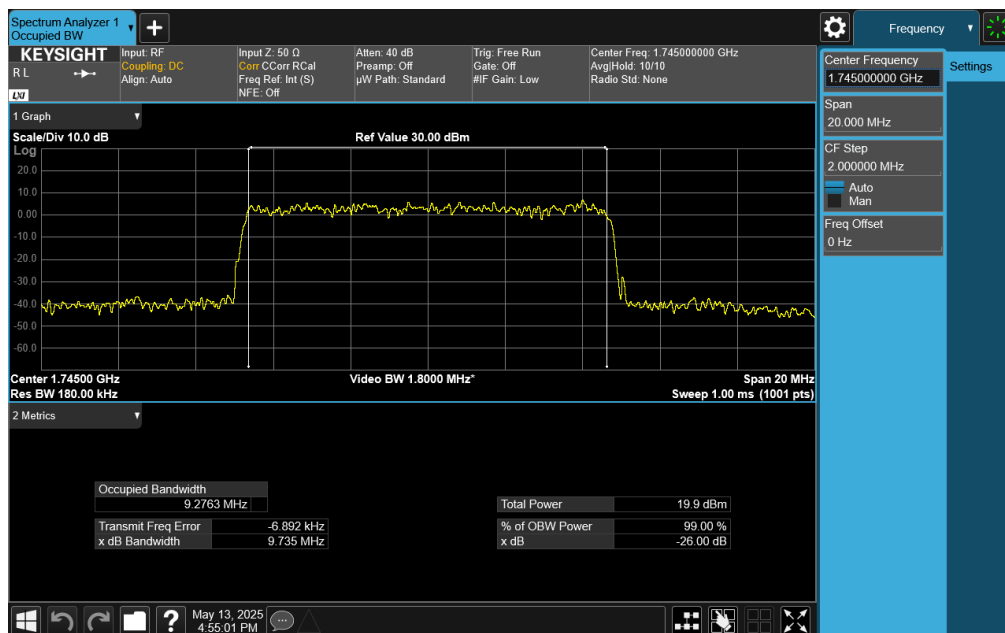
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-73. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM 64QAM - Full RB)

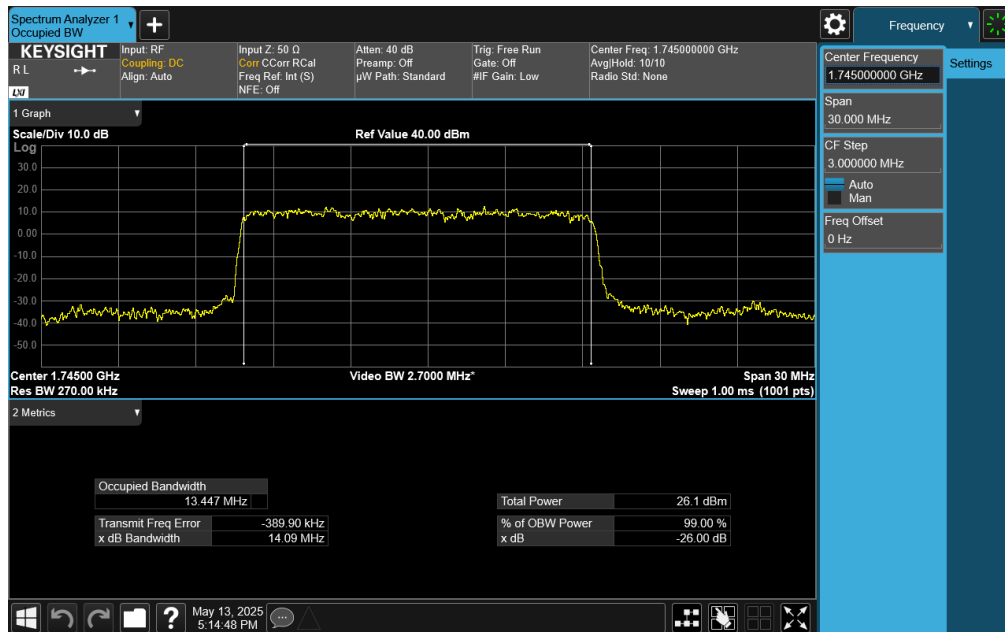


Plot 7-74. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM 256QAM - Full RB)

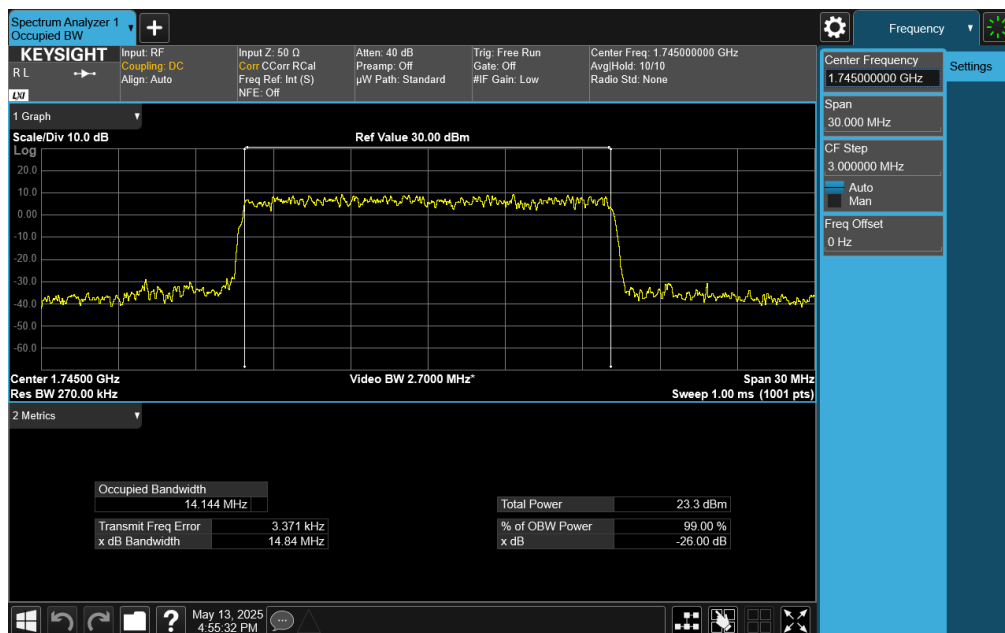
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-75. Occupied Bandwidth Plot (NR Band n66 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

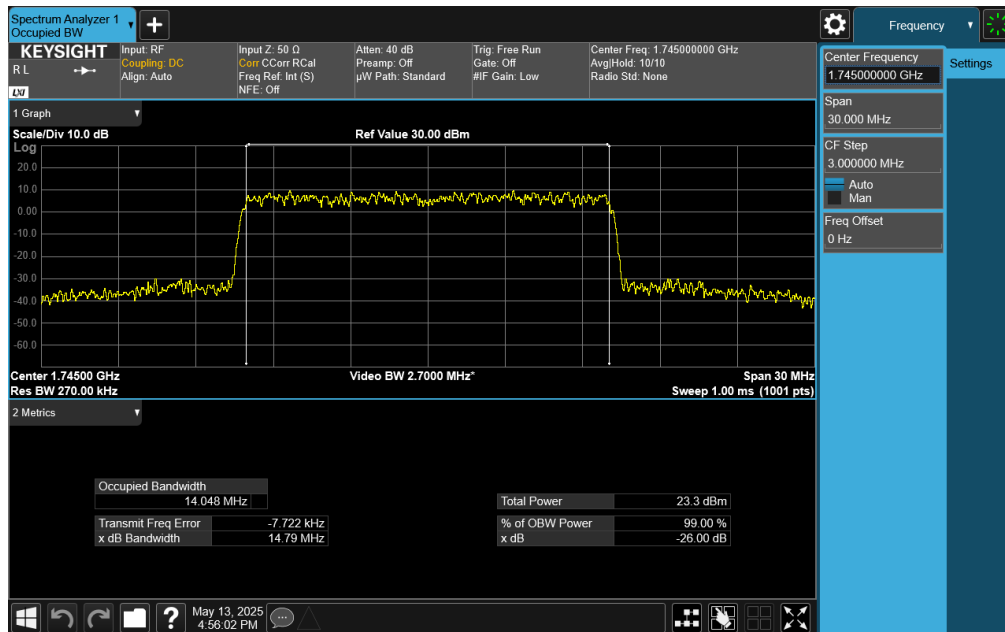


Plot 7-76. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM QPSK - Full RB)

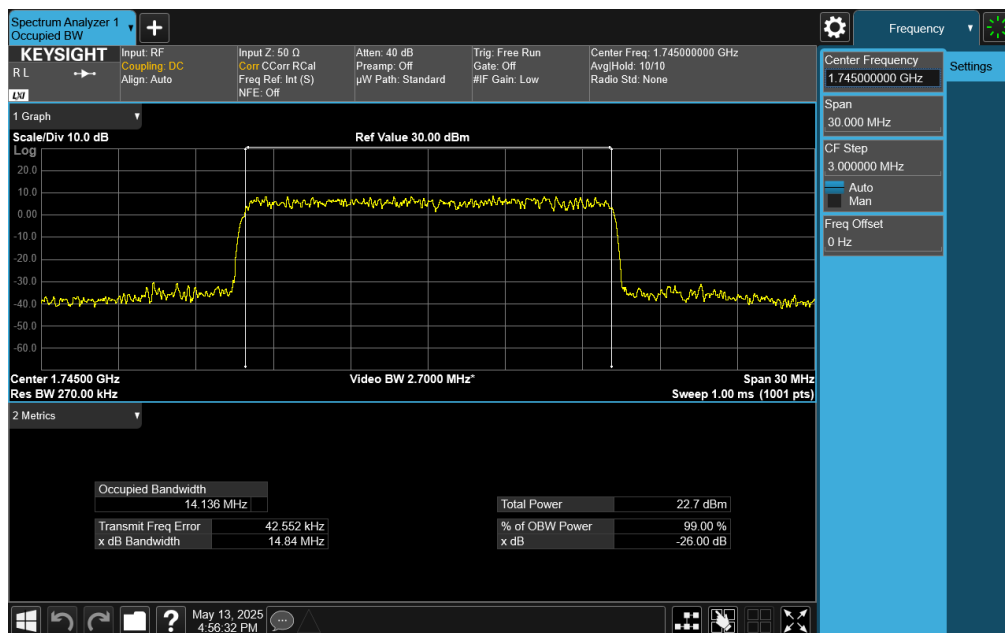
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-77. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 16QAM - Full RB)

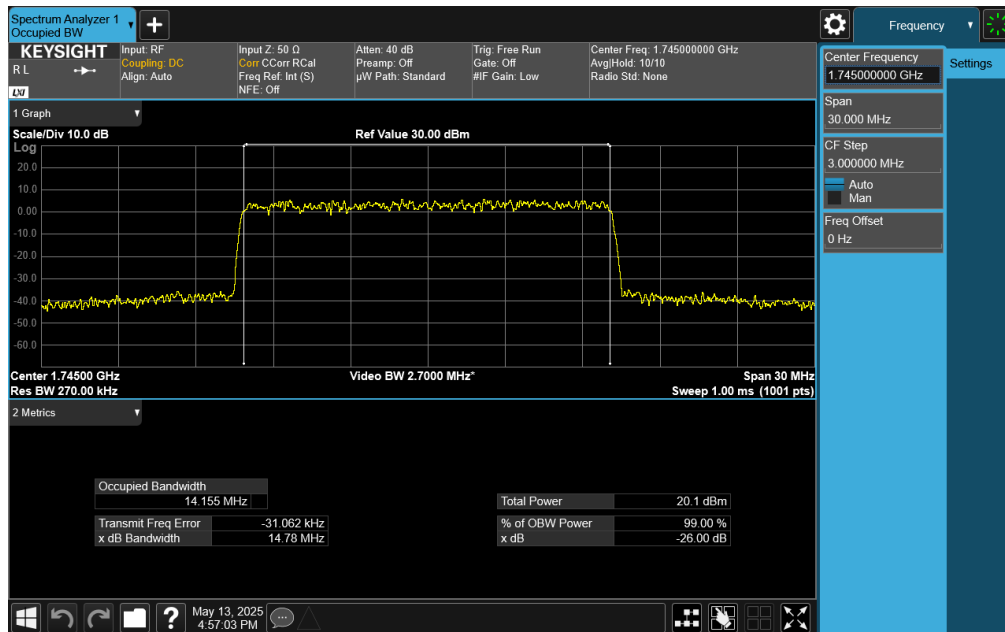


Plot 7-78. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 64QAM - Full RB)

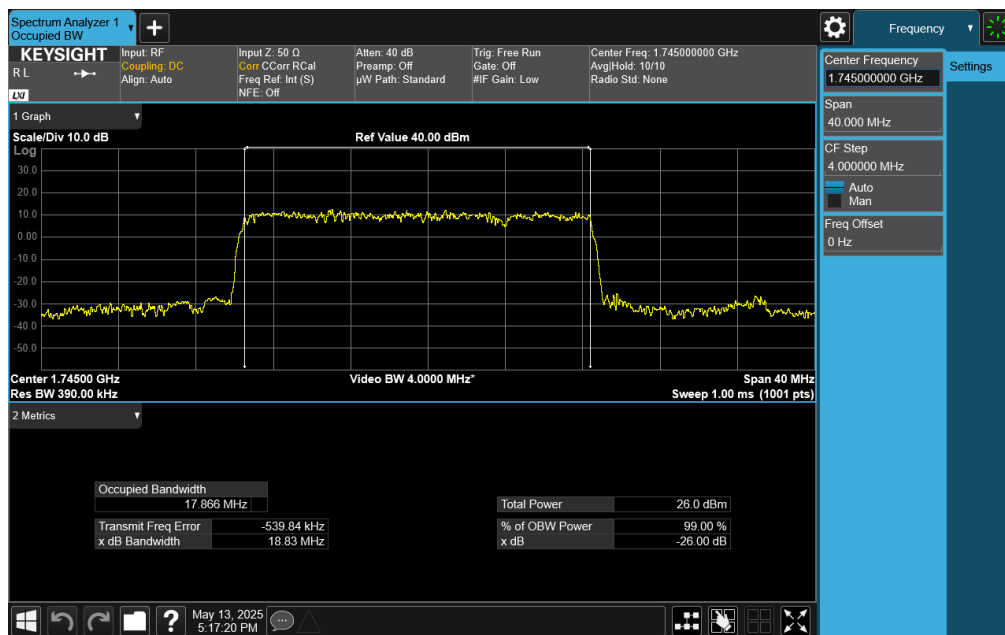
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-79. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 256QAM - Full RB)

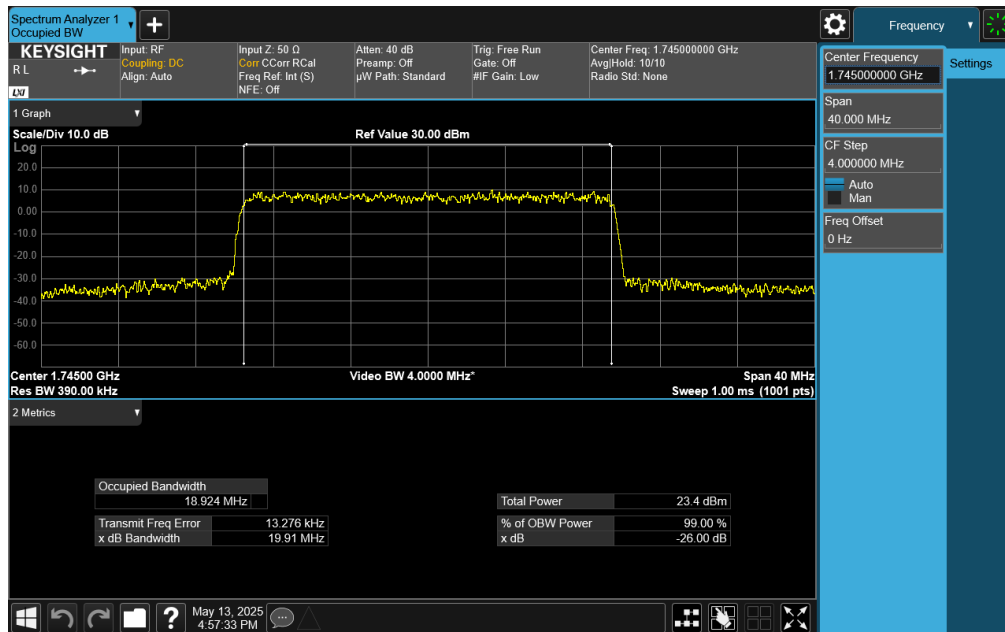


Plot 7-80. Occupied Bandwidth Plot (NR Band n66 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

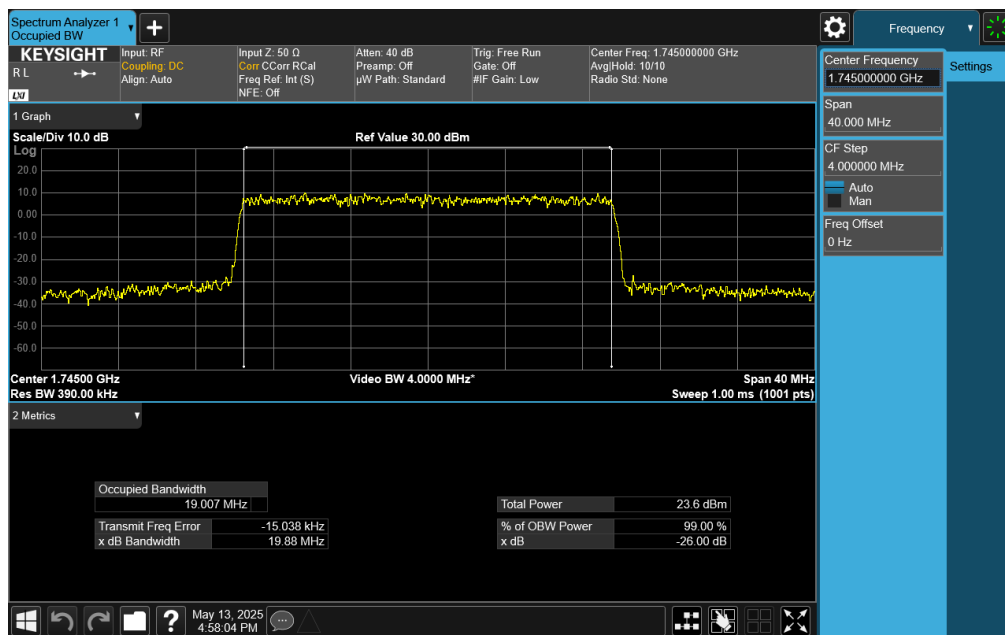
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-81. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM QPSK - Full RB)

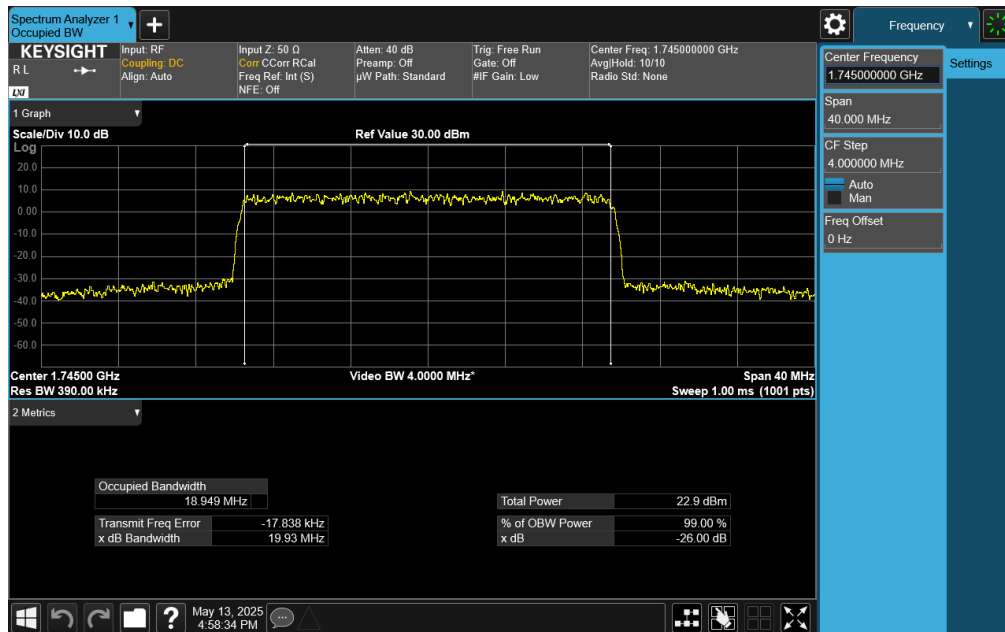


Plot 7-82. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 16QAM - Full RB)

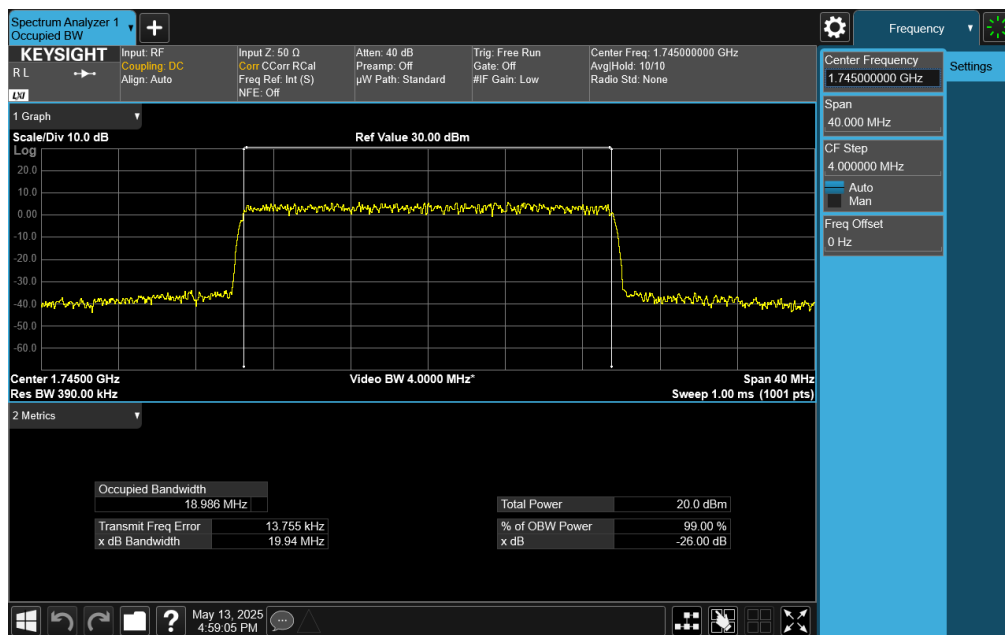
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-83. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 64QAM - Full RB)

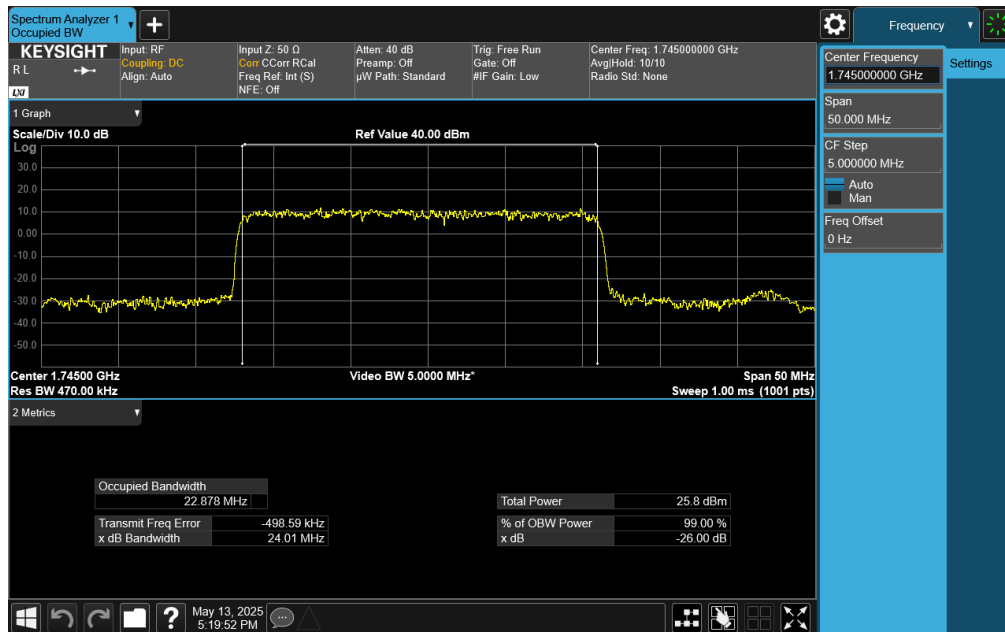


Plot 7-84. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 256QAM - Full RB)

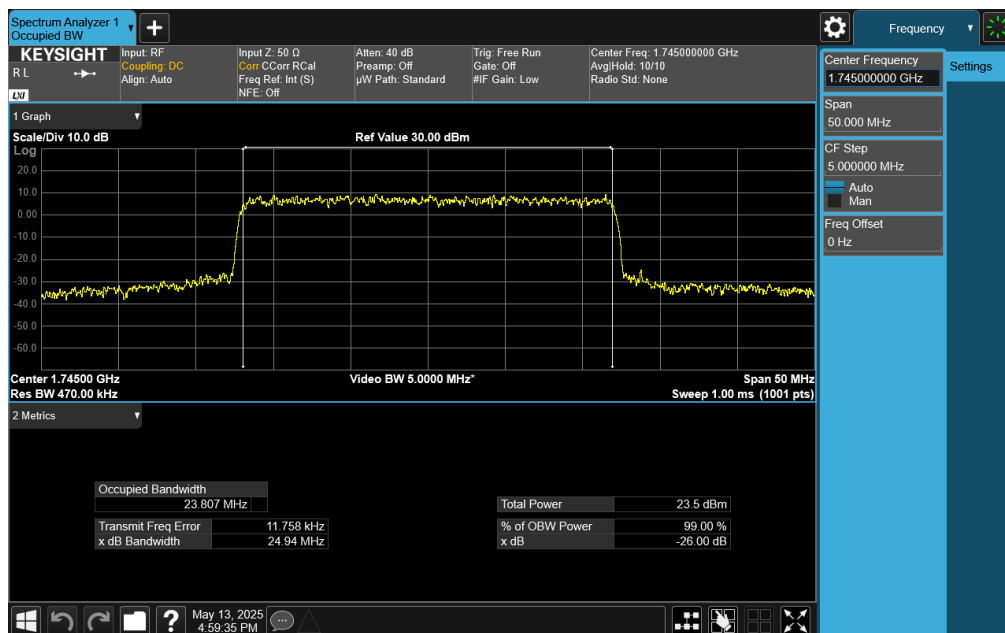
FCC ID: BCGA3358	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-85. Occupied Bandwidth Plot (NR Band n66 - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



Plot 7-86. Occupied Bandwidth Plot (NR Band n66 - 25MHz CP-OFDM QPSK - Full RB)

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