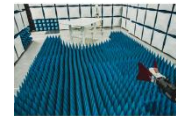




ELEMENT MATERIALS TECHNOLOGY

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Tel. 408.538.5600
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PART 27 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

5/12/2025 - 8/7/2025

Test Report Issue Date:

9/9/2025

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2504170041-09.BCG

FCC ID:

BCGA3361

APPLICANT:

Apple Inc.

Application Type:

Certification

Model:

A3361, A3362

EUT Type:

Tablet Device

FCC Classification:

PCS Licensed Transmitter (PCB)

FCC Rule Part:

27

Test Procedure(s):

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

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

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

RJ Ortanez
Executive Vice President



FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2504170041-09.BCG	Test Dates: 5/12/2025 - 8/7/2025	EUT Type: Tablet Device
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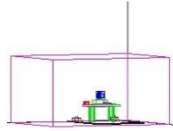
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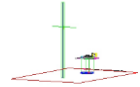
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Test Report S/N: 1C2504170041-09.BCG	Test Dates: 5/12/2025 - 8/7/2025	EUT Type: Tablet Device	Page 2 of 359

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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	4.5527	0.175	22.44	4M55G7W
		16QAM	665.5 - 695.5	4.5248	0.149	21.72	4M52D7W
		64QAM	665.5 - 695.5	4.5458	0.113	20.54	4M55D7W
		256QAM	665.5 - 695.5	4.5502	0.059	17.69	4M55D7W
	10 MHz	QPSK	668.0 - 693.0	9.0109	0.169	22.27	9M01G7W
		16QAM	668.0 - 693.0	9.0515	0.142	21.53	9M05D7W
		64QAM	668.0 - 693.0	9.0237	0.112	20.50	9M02D7W
		256QAM	668.0 - 693.0	9.0354	0.060	17.76	9M04D7W
	15 MHz	QPSK	670.5 - 690.5	13.5423	0.169	22.27	13M5G7W
		16QAM	670.5 - 690.5	13.5203	0.144	21.59	13M5D7W
		64QAM	670.5 - 690.5	13.5094	0.112	20.48	13M5D7W
		256QAM	670.5 - 690.5	13.5250	0.059	17.70	13M5D7W
	20 MHz	QPSK	673.0 - 688.0	17.9920	0.166	22.21	18M0G7W
		16QAM	673.0 - 688.0	17.9841	0.145	21.62	18M0D7W
		64QAM	673.0 - 688.0	18.0130	0.109	20.39	18M0D7W
		256QAM	673.0 - 688.0	17.9994	0.058	17.65	18M0D7W
LTE Band 12	1.4 MHz	QPSK	699.7 - 715.3	1.1019	0.107	20.29	1M10G7W
		16QAM	699.7 - 715.3	1.1103	0.090	19.55	1M11D7W
		64QAM	699.7 - 715.3	1.1130	0.072	18.56	1M11D7W
		256QAM	699.7 - 715.3	1.1080	0.037	15.70	1M11D7W
	3 MHz	QPSK	700.5 - 714.5	2.7259	0.107	20.29	2M73G7W
		16QAM	700.5 - 714.5	2.7207	0.089	19.49	2M72D7W
		64QAM	700.5 - 714.5	2.7234	0.071	18.48	2M72D7W
		256QAM	700.5 - 714.5	2.7179	0.037	15.67	2M72D7W
	5 MHz	QPSK	701.5 - 713.5	4.5259	0.110	20.43	4M53G7W
		16QAM	701.5 - 713.5	4.5390	0.092	19.63	4M54D7W
		64QAM	701.5 - 713.5	4.5311	0.071	18.54	4M53D7W
		256QAM	701.5 - 713.5	4.5278	0.037	15.71	4M53D7W
	10 MHz	QPSK	704.0 - 711.0	9.0188	0.109	20.38	9M02G7W
		16QAM	704.0 - 711.0	9.0287	0.092	19.63	9M03D7W
		64QAM	704.0 - 711.0	9.0514	0.073	18.62	9M05D7W
		256QAM	704.0 - 711.0	9.0273	0.038	15.84	9M03D7W
LTE Band 17	5 MHz	QPSK	706.5 - 713.5	4.5259	0.111	20.44	4M53G7W
		16QAM	706.5 - 713.5	4.5390	0.093	19.67	4M54D7W
		64QAM	706.5 - 713.5	4.5311	0.070	18.46	4M53D7W
		256QAM	706.5 - 713.5	4.5278	0.037	15.68	4M53D7W
	10 MHz	QPSK	709.0 - 711.0	9.0188	0.105	20.20	9M02G7W
		16QAM	709.0 - 711.0	9.0287	0.090	19.56	9M03D7W
		64QAM	709.0 - 711.0	9.0514	0.073	18.61	9M05D7W
		256QAM	709.0 - 711.0	9.0273	0.038	15.76	9M03D7W
LTE Band 13	5 MHz	QPSK	779.5 - 784.5	4.5344	0.153	21.84	4M53G7W
		16QAM	779.5 - 784.5	4.5278	0.132	21.21	4M53D7W
		64QAM	779.5 - 784.5	4.5361	0.098	19.90	4M54D7W
		256QAM	779.5 - 784.5	4.5245	0.052	17.16	4M52D7W
	10 MHz	QPSK	782.0	9.0111	0.147	21.66	9M01G7W
		16QAM	782.0	9.0286	0.128	21.07	9M03D7W
		64QAM	782.0	9.0039	0.100	20.00	9M00D7W
		256QAM	782.0	9.0309	0.053	17.23	9M03D7W

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	4.4830	0.172	22.36	4M48G7W
		QPSK	665.5 - 695.5	4.4822	0.170	22.30	4M48G7W
		16QAM	665.5 - 695.5	4.4697	0.132	21.21	4M47D7W
		64QAM	665.5 - 695.5	4.4735	0.108	20.34	4M47D7W
		256QAM	665.5 - 695.5	4.4730	0.069	18.36	4M47D7W
	10 MHz	$\pi/2$ BPSK	668.0 - 693.0	8.9126	0.170	22.31	8M91G7W
		QPSK	668.0 - 693.0	9.3196	0.169	22.27	9M32G7W
		16QAM	668.0 - 693.0	9.2416	0.128	21.07	9M24D7W
		64QAM	668.0 - 693.0	9.2719	0.108	20.32	9M27D7W
		256QAM	668.0 - 693.0	9.2748	0.068	18.32	9M27D7W
	15 MHz	$\pi/2$ BPSK	670.5 - 690.5	13.4522	0.166	22.20	13M5G7W
		QPSK	670.5 - 690.5	14.0911	0.168	22.26	14M1G7W
		16QAM	670.5 - 690.5	14.1190	0.129	21.11	14M1D7W
		64QAM	670.5 - 690.5	14.1223	0.106	20.25	14M1D7W
		256QAM	670.5 - 690.5	14.1174	0.065	18.15	14M1D7W
	20 MHz	$\pi/2$ BPSK	673.0 - 688.0	17.8722	0.166	22.20	17M9G7W
		QPSK	673.0 - 688.0	19.0130	0.168	22.24	19M0G7W
		16QAM	673.0 - 688.0	18.8821	0.131	21.16	18M9D7W
		64QAM	673.0 - 688.0	18.9133	0.107	20.30	18M9D7W
		256QAM	673.0 - 688.0	18.9910	0.068	18.33	19M0D7W
NR Band n12	5 MHz	$\pi/2$ BPSK	701.5 - 713.5	4.4595	0.106	20.26	4M46G7W
		QPSK	701.5 - 713.5	4.4684	0.108	20.35	4M47G7W
		16QAM	701.5 - 713.5	4.4556	0.081	19.07	4M46D7W
		64QAM	701.5 - 713.5	4.4859	0.067	18.29	4M49D7W
		256QAM	701.5 - 713.5	4.4690	0.043	16.33	4M47D7W
	10 MHz	$\pi/2$ BPSK	704.0 - 711.0	8.9508	0.110	20.41	8M95G7W
		QPSK	704.0 - 711.0	9.3104	0.110	20.42	9M31G7W
		16QAM	704.0 - 711.0	9.3263	0.082	19.14	9M33D7W
		64QAM	704.0 - 711.0	9.3169	0.067	18.26	9M32D7W
		256QAM	704.0 - 711.0	9.2917	0.044	16.39	9M29D7W
	15 MHz	$\pi/2$ BPSK	706.5 - 708.5	13.4130	0.104	20.16	13M4G7W
		QPSK	706.5 - 708.5	14.1054	0.107	20.29	14M1G7W
		16QAM	706.5 - 708.5	14.1312	0.085	19.27	14M1D7W
		64QAM	706.5 - 708.5	14.1581	0.066	18.20	14M2D7W
		256QAM	706.5 - 708.5	14.1303	0.041	16.17	14M1D7W

Overview Table (<1GHz Band)

FCC ID: BCGA3361	 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]	
WCDMA1700	5 MHz	Spread Spectrum	1712.4 - 1752.6	4.1056	3.28	0.309	24.90	4M11F9W
LTE Band 4	1.4 MHz	QPSK	1710.7 - 1754.3	1.1041	5.07	0.314	24.98	1M10G7W
		16QAM	1710.7 - 1754.3	1.1098	5.68	0.259	24.13	1M11D7W
		64QAM	1710.7 - 1754.3	1.1117	6.67	0.203	23.07	1M11D7W
		256QAM	1710.7 - 1754.3	1.1068	6.72	0.106	20.26	1M11D7W
	3 MHz	QPSK	1711.5 - 1753.5	2.7268	4.83	0.303	24.82	2M73G7W
		16QAM	1711.5 - 1753.5	2.7136	5.75	0.263	24.20	2M71D7W
		64QAM	1711.5 - 1753.5	2.7200	6.60	0.198	22.98	2M72D7W
		256QAM	1711.5 - 1753.5	2.7188	6.80	0.107	20.30	2M72D7W
	5 MHz	QPSK	1712.5 - 1752.5	4.5392	5.04	0.311	24.93	4M54G7W
		16QAM	1712.5 - 1752.5	4.5382	5.69	0.265	24.24	4M54D7W
		64QAM	1712.5 - 1752.5	4.5298	6.62	0.203	23.08	4M53D7W
		256QAM	1712.5 - 1752.5	4.5366	6.58	0.108	20.34	4M54D7W
	10MHz	QPSK	1715.0 - 1750.0	9.0382	4.99	0.296	24.72	9M04G7W
		16QAM	1715.0 - 1750.0	9.0286	5.66	0.263	24.21	9M03D7W
		64QAM	1715.0 - 1750.0	9.0266	6.55	0.203	23.08	9M03D7W
		256QAM	1715.0 - 1750.0	9.0142	6.59	0.109	20.36	9M01D7W
	15 MHz	QPSK	1717.5 - 1747.5	13.5451	5.17	0.306	24.86	13M5G7W
		16QAM	1717.5 - 1747.5	13.5214	5.72	0.258	24.12	13M5D7W
		64QAM	1717.5 - 1747.5	13.5370	6.51	0.203	23.08	13M5D7W
		256QAM	1717.5 - 1747.5	13.5044	6.50	0.107	20.28	13M5D7W
	20 MHz	QPSK	1720.0 - 1745.0	18.0012	5.07	0.302	24.81	18M0G7W
		16QAM	1720.0 - 1745.0	17.9889	5.68	0.256	24.09	18M0D7W
		64QAM	1720.0 - 1745.0	18.0130	6.54	0.197	22.94	18M0D7W
		256QAM	1720.0 - 1745.0	17.9743	6.51	0.106	20.27	18M0D7W
LTE Band 66	1.4 MHz	QPSK	1710.7 - 1779.3	1.1041	5.05	0.298	24.74	1M10G7W
		16QAM	1710.7 - 1779.3	1.1098	5.71	0.253	24.03	1M11D7W
		64QAM	1710.7 - 1779.3	1.1117	6.75	0.200	23.01	1M11D7W
		256QAM	1710.7 - 1779.3	1.1068	6.90	0.104	20.16	1M11D7W
	3 MHz	QPSK	1711.5 - 1778.5	2.7268	4.84	0.299	24.75	2M73G7W
		16QAM	1711.5 - 1778.5	2.7136	5.81	0.270	24.31	2M71D7W
		64QAM	1711.5 - 1778.5	2.7200	6.69	0.202	23.06	2M72D7W
		256QAM	1711.5 - 1778.5	2.7188	6.72	0.105	20.20	2M72D7W
	5 MHz	QPSK	1712.5 - 1777.5	4.5392	5.04	0.314	24.97	4M54G7W
		16QAM	1712.5 - 1777.5	4.5382	5.74	0.271	24.32	4M54D7W
		64QAM	1712.5 - 1777.5	4.5298	6.70	0.209	23.19	4M53D7W
		256QAM	1712.5 - 1777.5	4.5366	6.74	0.107	20.31	4M54D7W
	10 MHz	QPSK	1715.0 - 1775.0	9.0382	5.03	0.302	24.79	9M04G7W
		16QAM	1715.0 - 1775.0	9.0286	5.71	0.266	24.25	9M03D7W
		64QAM	1715.0 - 1775.0	9.0266	6.62	0.207	23.16	9M03D7W
		256QAM	1715.0 - 1775.0	9.0142	6.71	0.108	20.32	9M01D7W
	15 MHz	QPSK	1717.5 - 1772.5	13.5451	5.10	0.299	24.76	13M5G7W
		16QAM	1717.5 - 1772.5	13.5214	5.72	0.268	24.28	13M5D7W
		64QAM	1717.5 - 1772.5	13.5370	6.58	0.199	22.98	13M5D7W
		256QAM	1717.5 - 1772.5	13.5044	6.65	0.105	20.20	13M5D7W
	20 MHz	QPSK	1720.0 - 1770.0	18.0012	5.00	0.295	24.70	18M0G7W
		16QAM	1720.0 - 1770.0	17.9889	5.68	0.254	24.04	18M0D7W
		64QAM	1720.0 - 1770.0	18.0130	6.55	0.190	22.79	18M0D7W
		256QAM	1720.0 - 1770.0	17.9743	6.58	0.101	20.06	18M0D7W

Overview Table (>1GHz Bands)

FCC ID: BCGA3361	 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	11/2 BPSK	1712.5 - 1777.5	4.4626	4.05	0.315	24.98	4M46G7W
		QPSK	1712.5 - 1777.5	4.4882	4.75	0.306	24.85	4M49G7W
		16QAM	1712.5 - 1777.5	4.4660	5.77	0.234	23.69	4M47D7W
		64QAM	1712.5 - 1777.5	4.4676	6.38	0.196	22.93	4M47D7W
		256QAM	1712.5 - 1777.5	4.4873	6.45	0.123	20.90	4M49D7W
	10 MHz	11/2 BPSK	1715.0 - 1775.0	8.9403	4.05	0.306	24.86	8M94G7W
		QPSK	1715.0 - 1775.0	9.3092	4.80	0.315	24.98	9M31G7W
		16QAM	1715.0 - 1775.0	9.3021	5.89	0.231	23.64	9M30D7W
		64QAM	1715.0 - 1775.0	9.2868	6.33	0.194	22.89	9M29D7W
		256QAM	1715.0 - 1775.0	9.3425	6.56	0.126	21.01	9M34D7W
	15 MHz	11/2 BPSK	1717.5 - 1772.5	13.3984	4.12	0.306	24.86	13M4G7W
		QPSK	1717.5 - 1772.5	14.1410	4.93	0.302	24.79	14M1G7W
		16QAM	1717.5 - 1772.5	14.1842	5.81	0.229	23.59	14M2D7W
		64QAM	1717.5 - 1772.5	14.1744	6.39	0.193	22.85	14M2D7W
		256QAM	1717.5 - 1772.5	14.6168	6.54	0.118	20.73	14M6D7W
	20 MHz	11/2 BPSK	1720.0 - 1770.0	17.8943	4.16	0.304	24.83	17M9G7W
		QPSK	1720.0 - 1770.0	18.9801	4.82	0.303	24.81	19M0G7W
		16QAM	1720.0 - 1770.0	18.9259	5.75	0.233	23.67	18M9D7W
		64QAM	1720.0 - 1770.0	18.8963	6.42	0.198	22.97	18M9D7W
		256QAM	1720.0 - 1770.0	18.9894	6.50	0.122	20.87	19M0D7W
	25 MHz	11/2 BPSK	1722.5 - 1767.5	22.9220	4.33	0.304	24.83	22M9G7W
		QPSK	1722.5 - 1767.5	23.8421	4.91	0.297	24.73	23M8G7W
		16QAM	1722.5 - 1767.5	23.7974	5.77	0.225	23.53	23M8D7W
		64QAM	1722.5 - 1767.5	23.8112	6.37	0.193	22.86	23M8D7W
		256QAM	1722.5 - 1767.5	23.8010	6.45	0.122	20.85	23M8D7W
	30 MHz	11/2 BPSK	1725.0 - 1765.0	28.5903	4.17	0.304	24.84	28M6G7W
		QPSK	1725.0 - 1765.0	28.6041	4.97	0.316	25.00	28M6G7W
		16QAM	1725.0 - 1765.0	28.6910	5.80	0.227	23.56	28M7D7W
		64QAM	1725.0 - 1765.0	28.5462	6.48	0.191	22.80	28M5D7W
		256QAM	1725.0 - 1765.0	28.6723	6.54	0.119	20.77	28M7D7W
	35 MHz	11/2 BPSK	1727.5 - 1762.5	32.1001	4.23	0.306	24.86	32M1G7W
		QPSK	1727.5 - 1762.5	33.5843	4.86	0.300	24.77	33M6G7W
		16QAM	1727.5 - 1762.5	33.6671	5.78	0.229	23.60	33M7D7W
		64QAM	1727.5 - 1762.5	33.6492	6.34	0.193	22.85	33M6D7W
		256QAM	1727.5 - 1762.5	33.6460	6.54	0.122	20.87	33M6D7W
	40 MHz	11/2 BPSK	1730.0 - 1760.0	38.5893	4.56	0.312	24.95	38M6G7W
		QPSK	1730.0 - 1760.0	38.6931	5.00	0.306	24.86	38M7G7W
		16QAM	1730.0 - 1760.0	38.6834	5.68	0.231	23.64	38M7D7W
		64QAM	1730.0 - 1760.0	38.7631	6.25	0.191	22.82	38M8D7W
		256QAM	1730.0 - 1760.0	38.6270	6.45	0.121	20.82	38M6D7W
	45 MHz	11/2 BPSK	1732.5 - 1757.5	42.9139	4.18	0.306	24.85	42M9G7W
		QPSK	1732.5 - 1757.5	43.1578	4.74	0.308	24.89	43M2G7W
		16QAM	1732.5 - 1757.5	43.1981	5.63	0.237	23.75	43M2D7W
		64QAM	1732.5 - 1757.5	43.1772	6.26	0.194	22.87	43M2D7W
		256QAM	1732.5 - 1757.5	43.1720	6.49	0.122	20.86	43M2D7W
NR Band n70	5 MHz	11/2 BPSK	1697.5 - 1707.5	4.4976	4.13	0.253	24.03	4M50G7W
		QPSK	1697.5 - 1707.5	4.4733	4.82	0.250	23.98	4M47G7W
		16QAM	1697.5 - 1707.5	4.4783	5.82	0.191	22.82	4M48D7W
		64QAM	1697.5 - 1707.5	4.4824	6.43	0.158	21.99	4M48D7W
		256QAM	1697.5 - 1707.5	4.4698	6.43	0.100	20.02	4M47D7W
	10 MHz	11/2 BPSK	1700.0 - 1705.0	8.9354	4.15	0.257	24.10	8M94G7W
		QPSK	1700.0 - 1705.0	9.3053	4.86	0.256	24.08	9M31G7W
		16QAM	1700.0 - 1705.0	9.2851	5.95	0.199	22.99	9M29D7W
		64QAM	1700.0 - 1705.0	9.2957	6.40	0.162	22.10	9M30D7W
		256QAM	1700.0 - 1705.0	9.3168	6.55	0.103	20.13	9M32D7W
	15 MHz	11/2 BPSK	1702.5	13.4472	4.28	0.250	23.98	13M4G7W
		QPSK	1702.5	14.1071	5.03	0.252	24.01	14M1G7W
		16QAM	1702.5	14.1893	5.91	0.196	22.91	14M2D7W
		64QAM	1702.5	14.1401	6.46	0.164	22.15	14M1D7W
		256QAM	1702.5	14.1340	6.56	0.103	20.11	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: BCGA3361**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 27.

Test Device Serial No.: GXN4VKJ5GF, M7QW4VF4GQ, DQK4PG2D6J, H9HHG4000900000X4G, H9HHG40009S0000X4G

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax/be WLAN, 802.11a/n/ac/ax/be UNII (5GHz and 6GHz), 802.15.4, Bluetooth (1x, EDR, LE, HDR, HDT), Narrowband (NB) UNII (5GHz and 6GHz), WPT

This device supports BT Beamforming

This device supports channel puncturing and channel bandwidth reduction.

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

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

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

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

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2.3 Antenna Description

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

Band	Antenna Gain [dBi]			
	Antenna 4b	Antenna 3	Antenna 1	Antenna 2b
LTE Band 12/17	✖	-3.1	-2.2	✖
NR Band 12				
LTE Band 13	✖	-1.7	-3.1	✖
LTE Band 4/66	-1.4	-0.7	-2.5	-3.0
NR Band n66				
WCDMA1700				
LTE Band 71	✖	-1.1	-2.1	✖
NR Band n71				
NR Band 70	-2.7	-1.1	-4.4	-3.8

Table 2-2. Highest Antenna Gains

✖ = Not Support

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNP0WA6
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:

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

And

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

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

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

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

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4.0 MEASUREMENT UNCERTAINTY

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

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

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5.0 TEST EQUIPMENT CALIBRATION DATA

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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	00240109
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted RF Cable *	6/10/2025	Annual	6/10/2026	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/10/2025	Annual	6/10/2026	1946
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	9/5/2024	Annual	9/5/2025	MY61320121
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	11/21/2024	Annual	11/21/2025	104093
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	9/20/2024	Annual	9/20/2025	102327
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/30/2023	Annual	10/2/2025	191707
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/21/2024	Annual	10/21/2025	187423
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	00358

Table 5-1. Test Equipment

Notes:

1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
2. * denotes passive equipment that have been internally verified/calibrated.

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6.0 SAMPLE CALCULATIONS

Emission Designator

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: BCGA3361
 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 $\geq 3 \times$ 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

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Test Setup

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

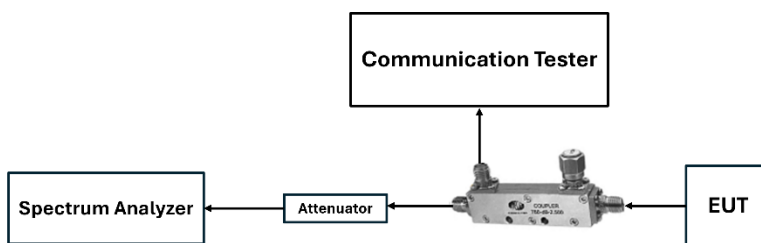


Figure 7-1. LTE Test Instrument & Measurement Setup

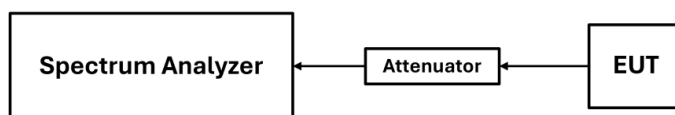


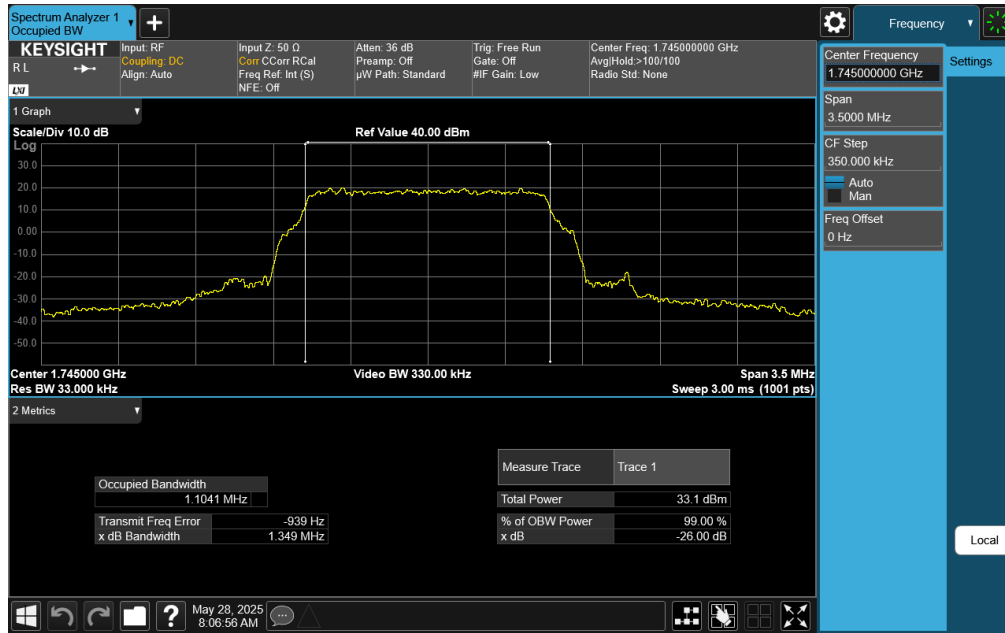
Figure 7-2. FR1 Test Instrument & Measurement Setup

Test Notes

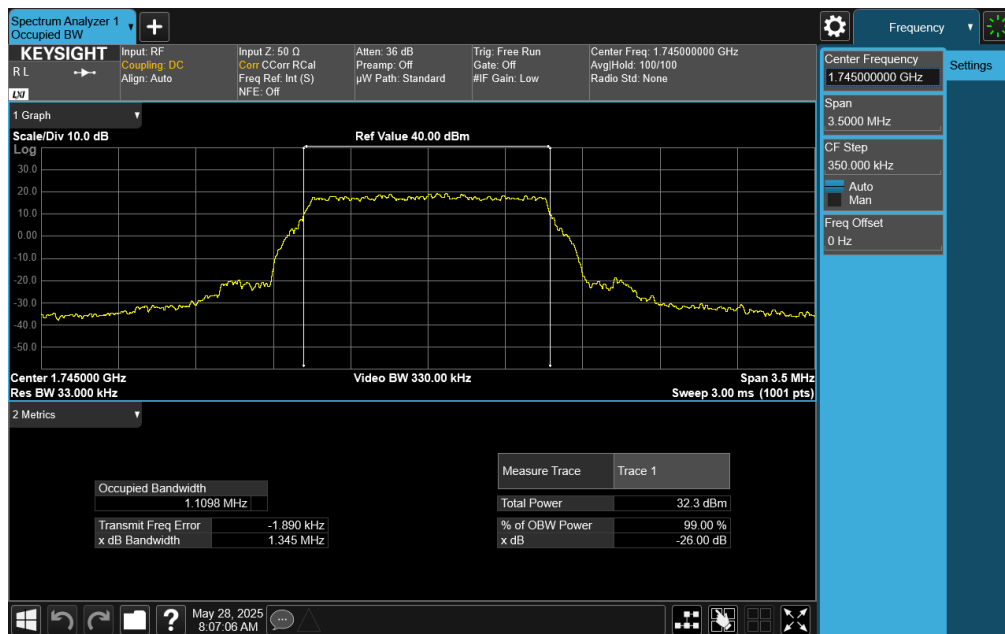
1. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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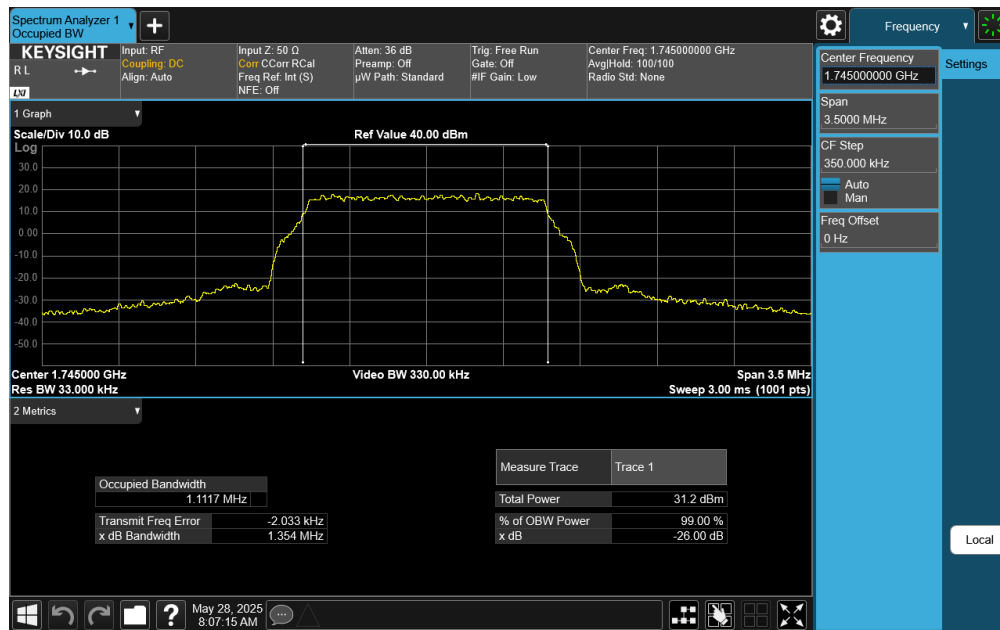


Plot 7-1. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB)



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)

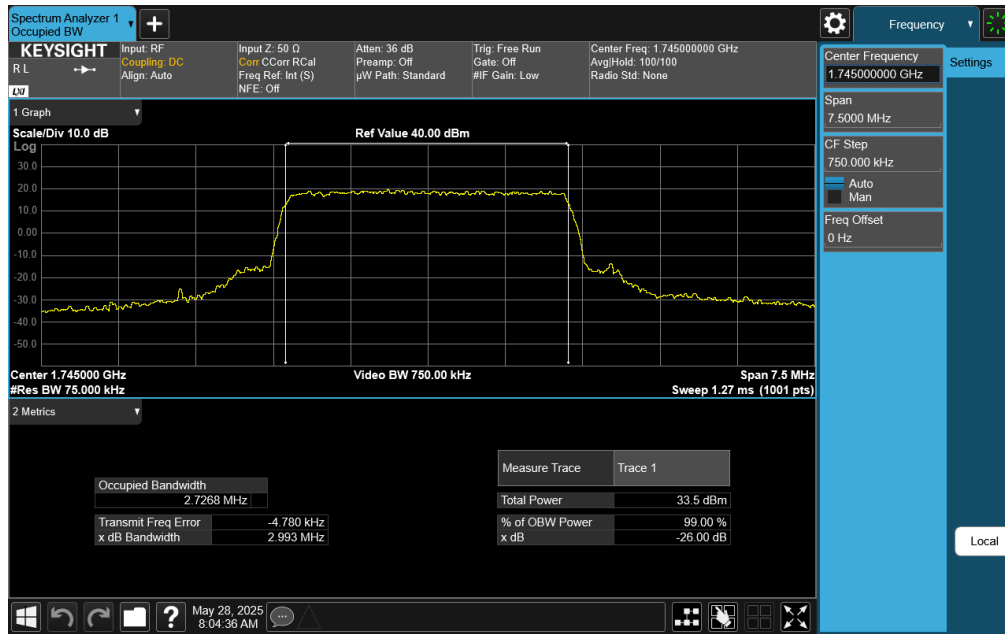


Plot 7-4. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB)

FCC ID: BCGA3361	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)

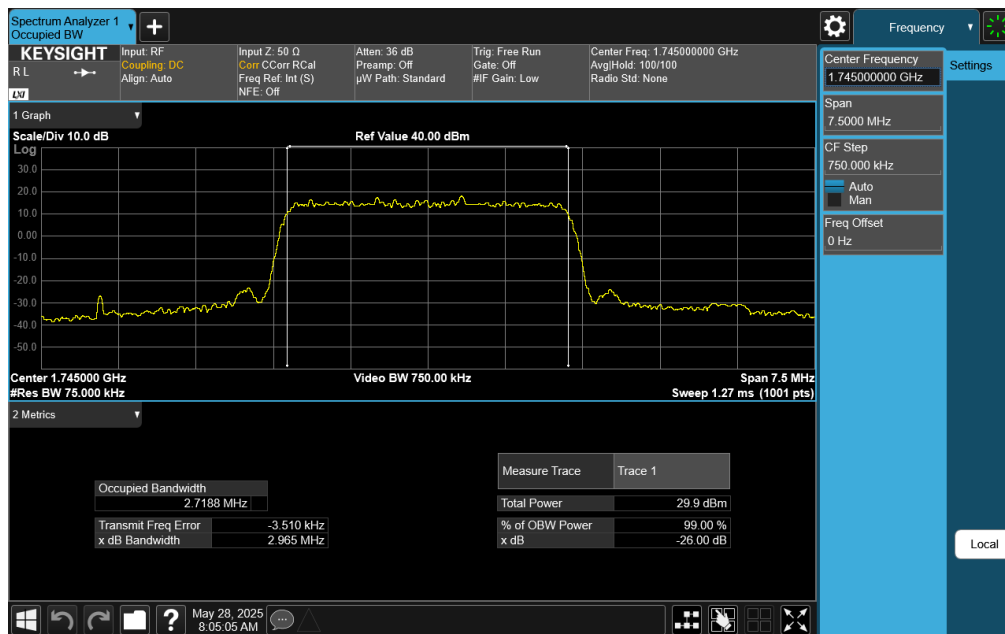


Plot 7-6. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB)

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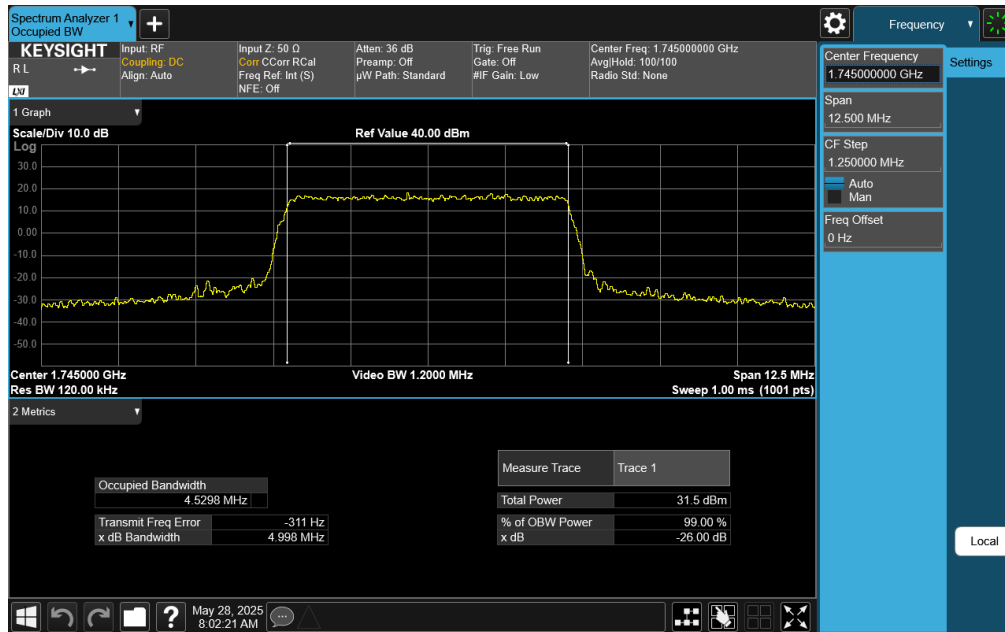
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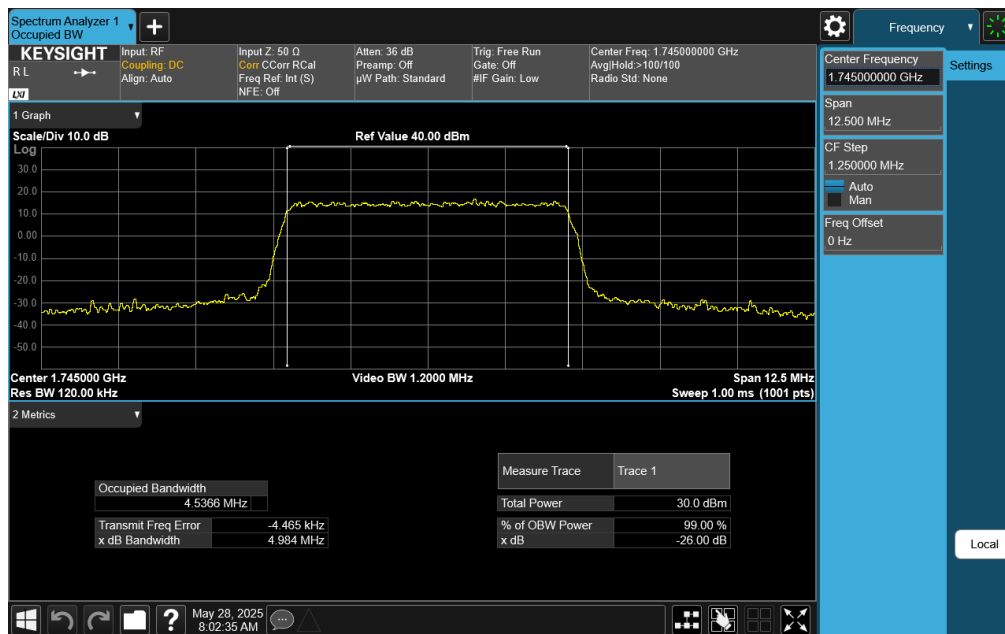
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-11. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 64-QAM - Full RB)

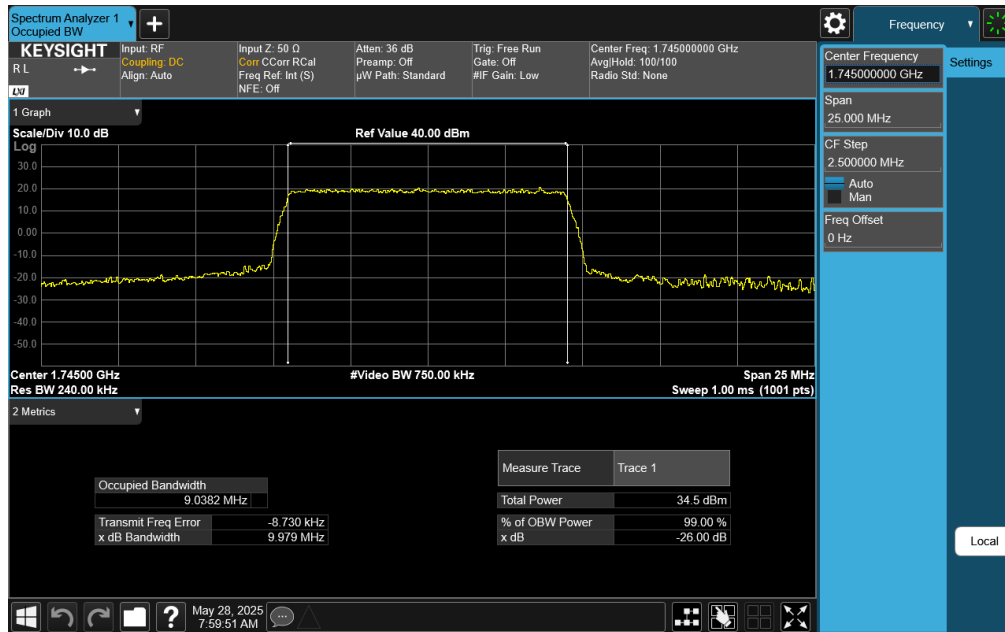


Plot 7-12. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB)

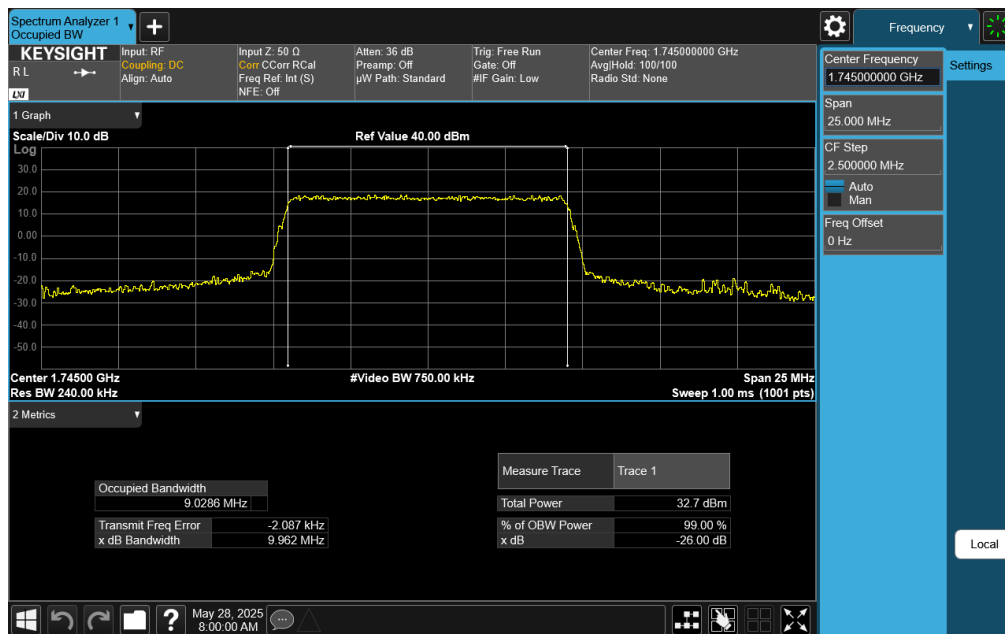
FCC ID: BCGA3361	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-13. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)

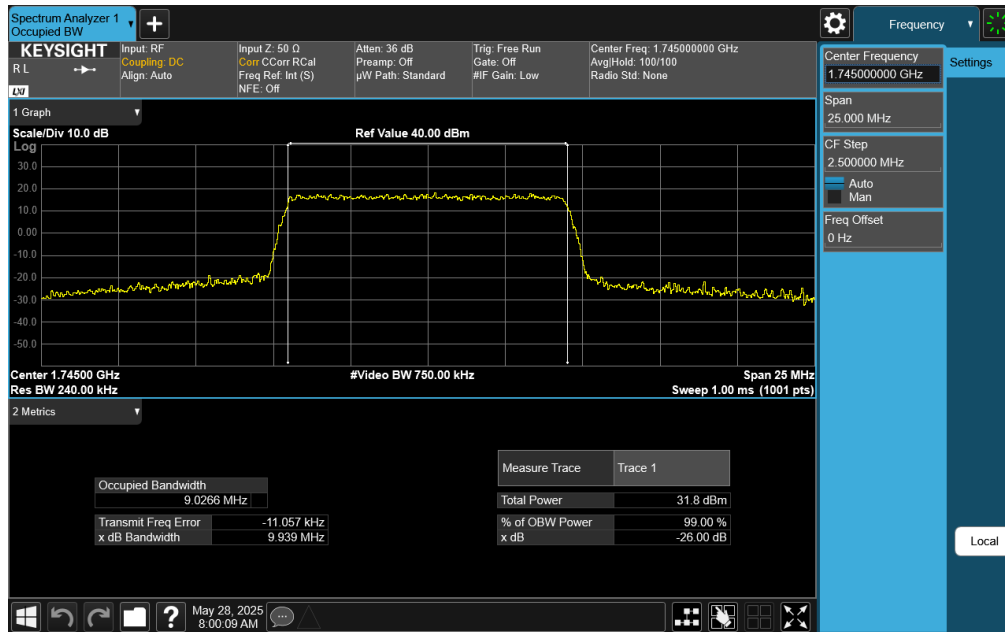


Plot 7-14. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB)

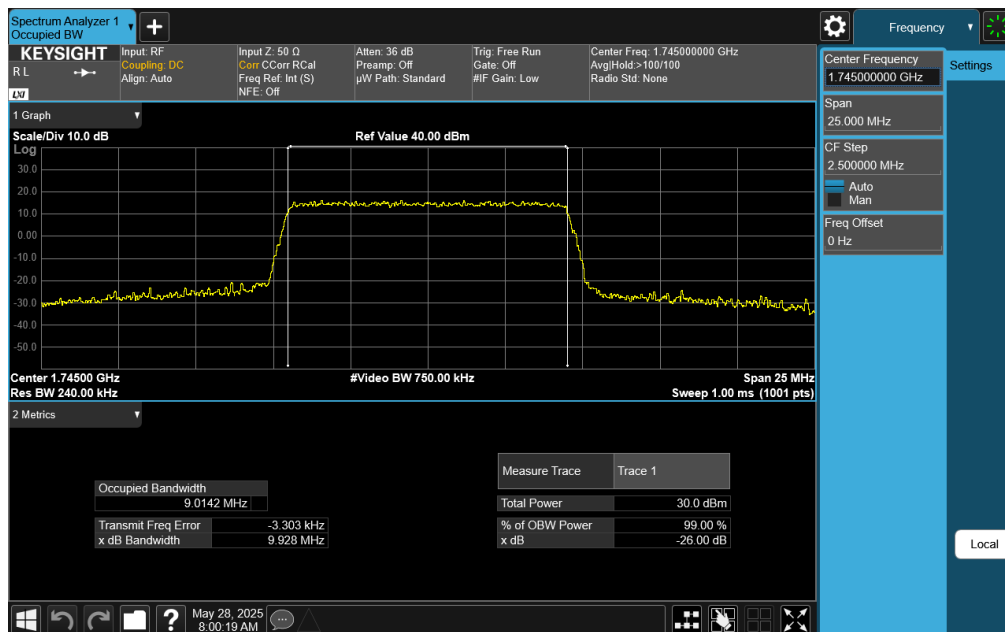
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-15. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 64-QAM - Full RB)

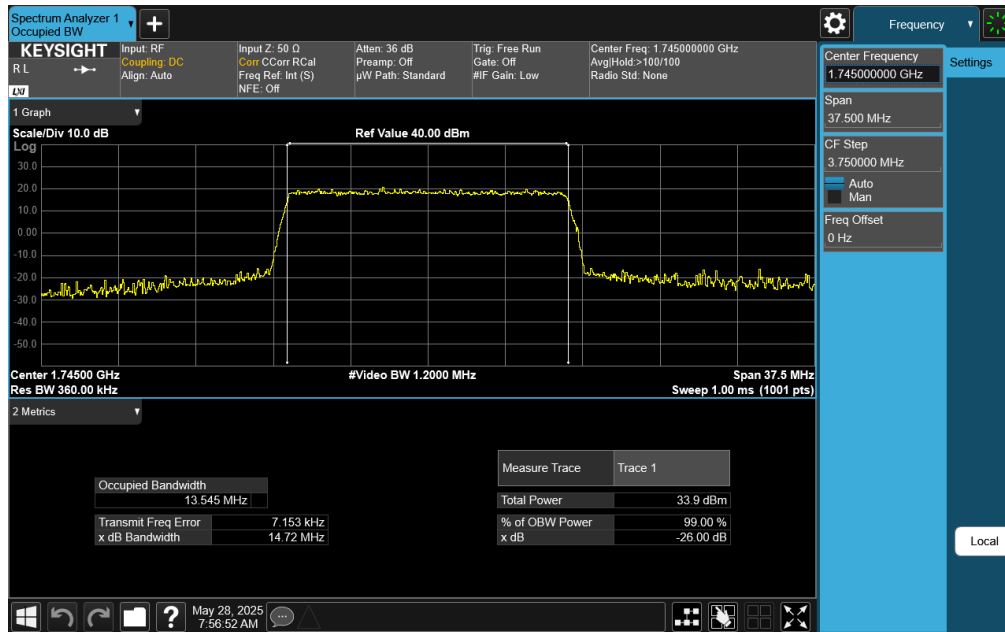


Plot 7-16. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-17. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)

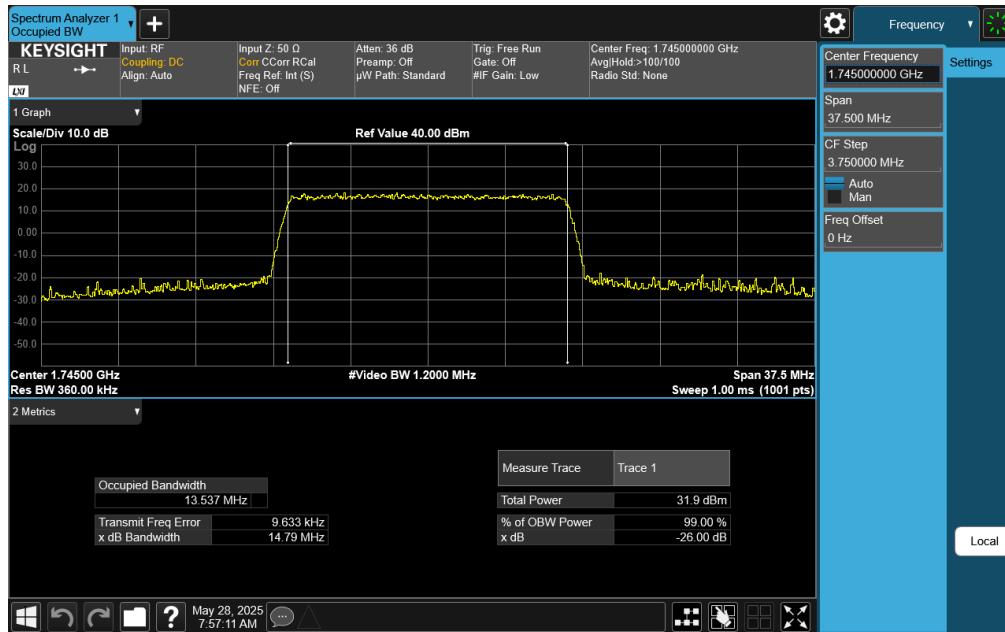


Plot 7-18. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB)

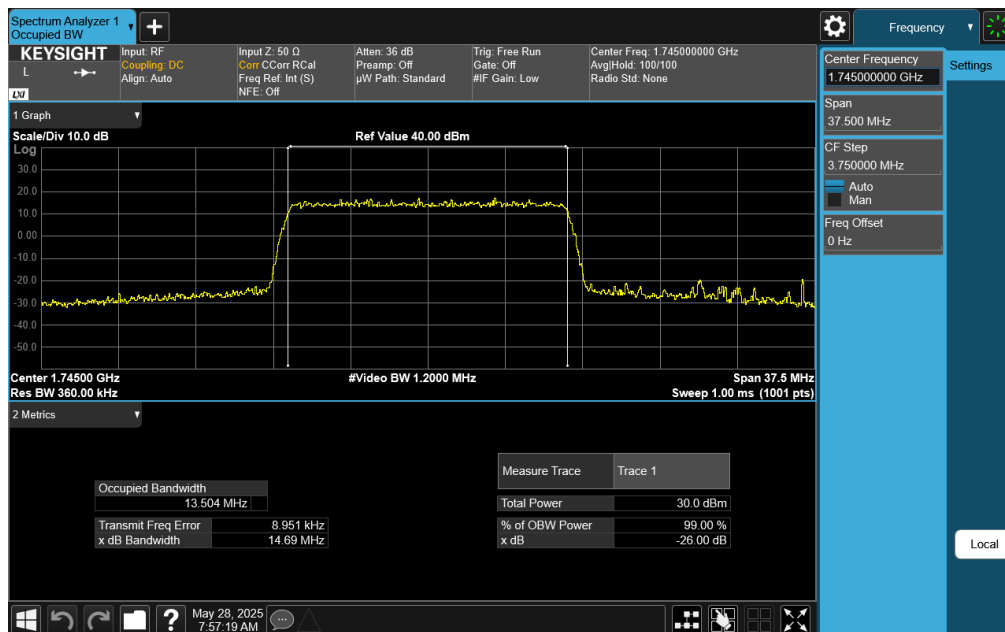
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-19. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 64-QAM - Full RB)

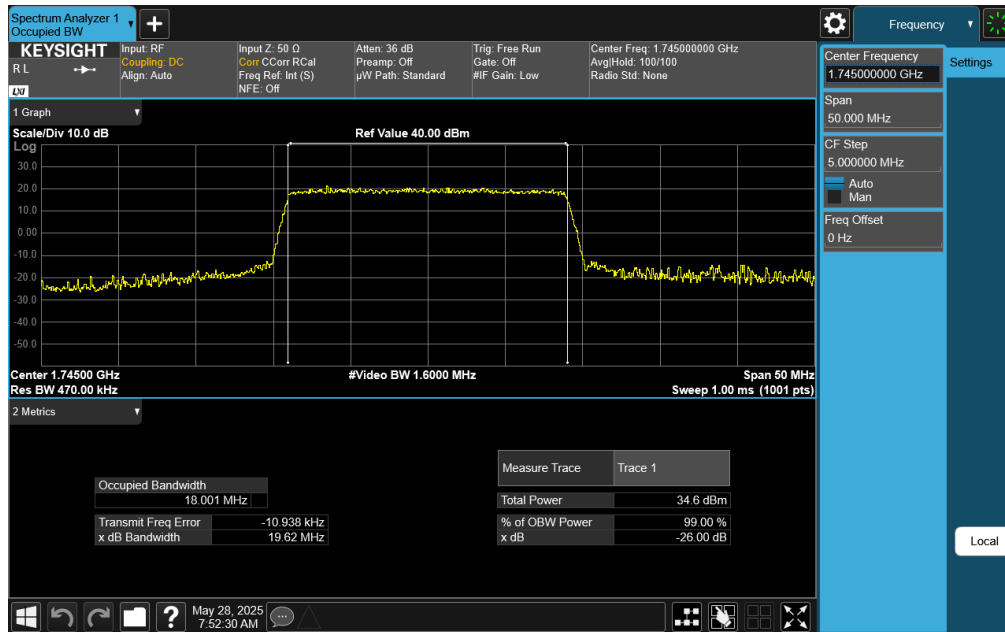


Plot 7-20. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB)

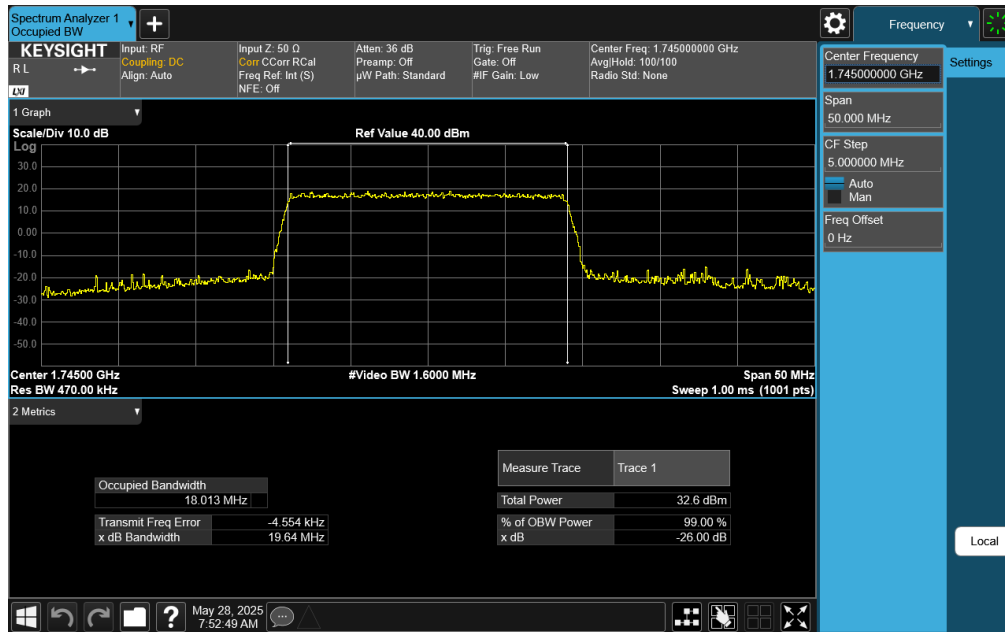
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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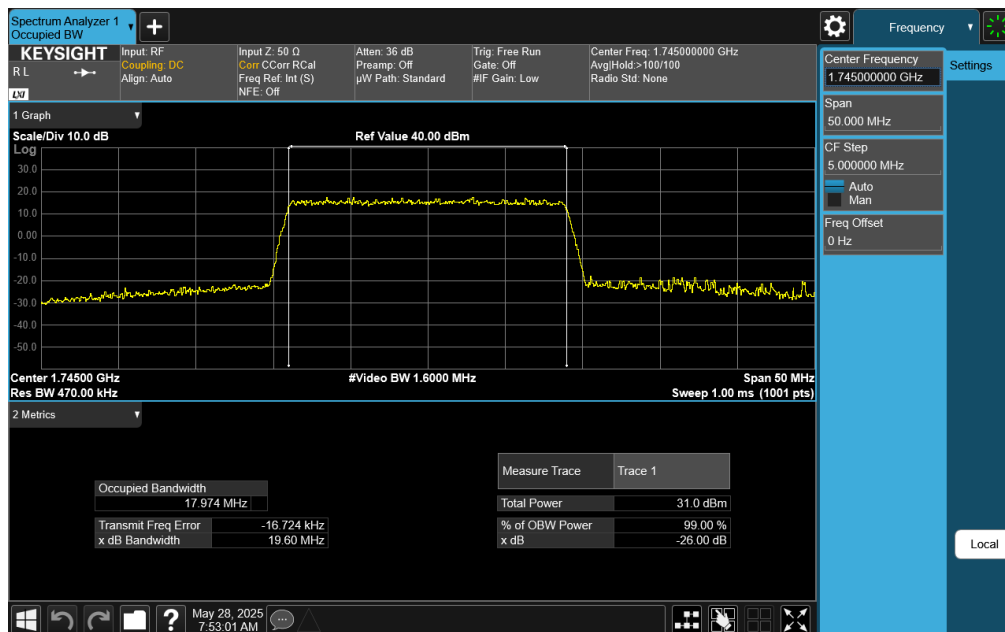
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Plot 7-23. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 64-QAM - Full RB)



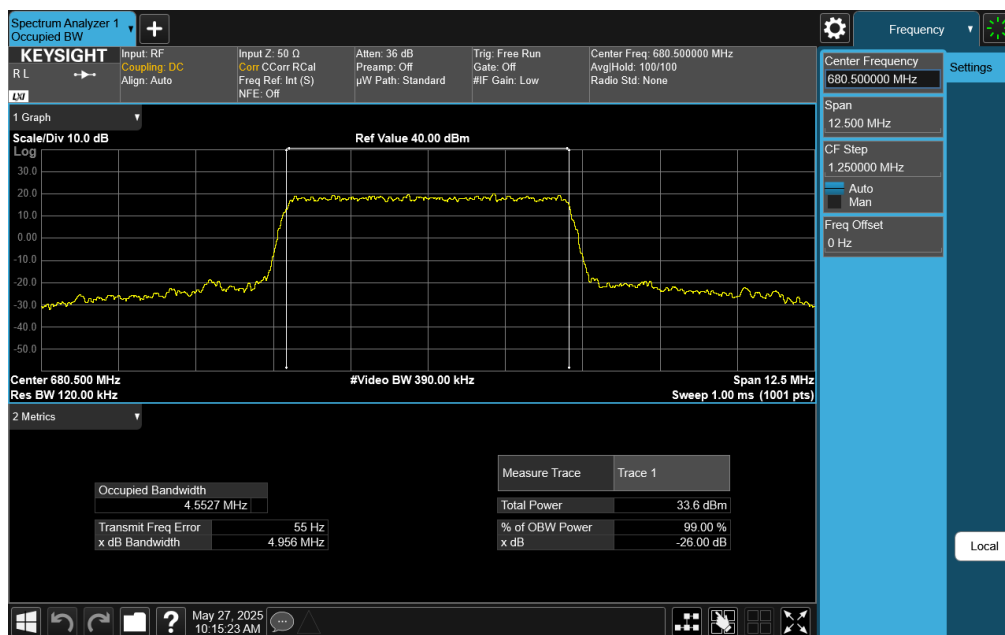
Plot 7-24. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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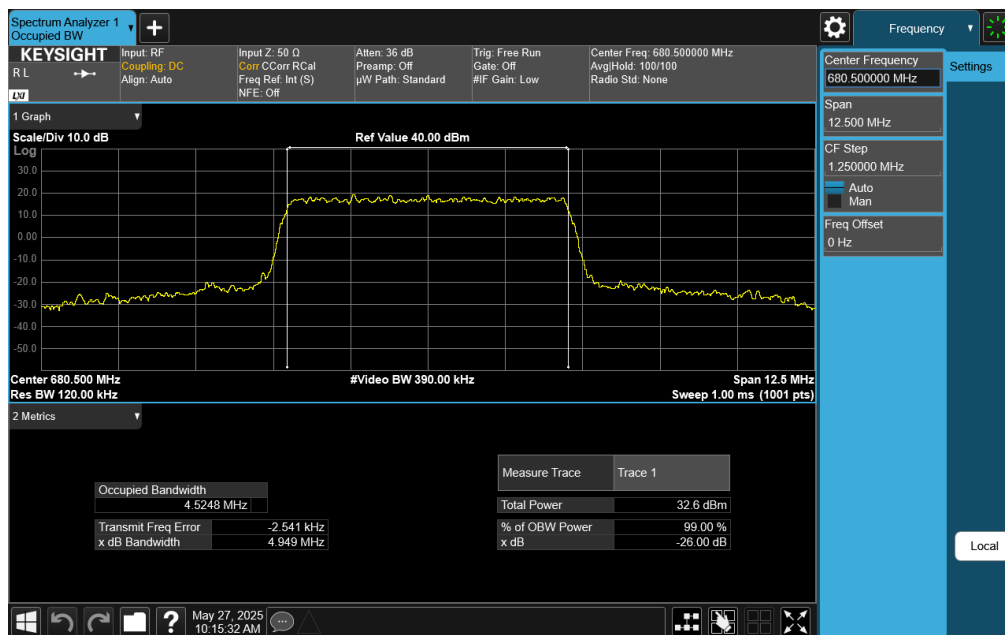
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LTE Band 71



Plot 7-25. Occupied Bandwidth Plot (LTE Band 71 - 5MHz QPSK - Full RB)

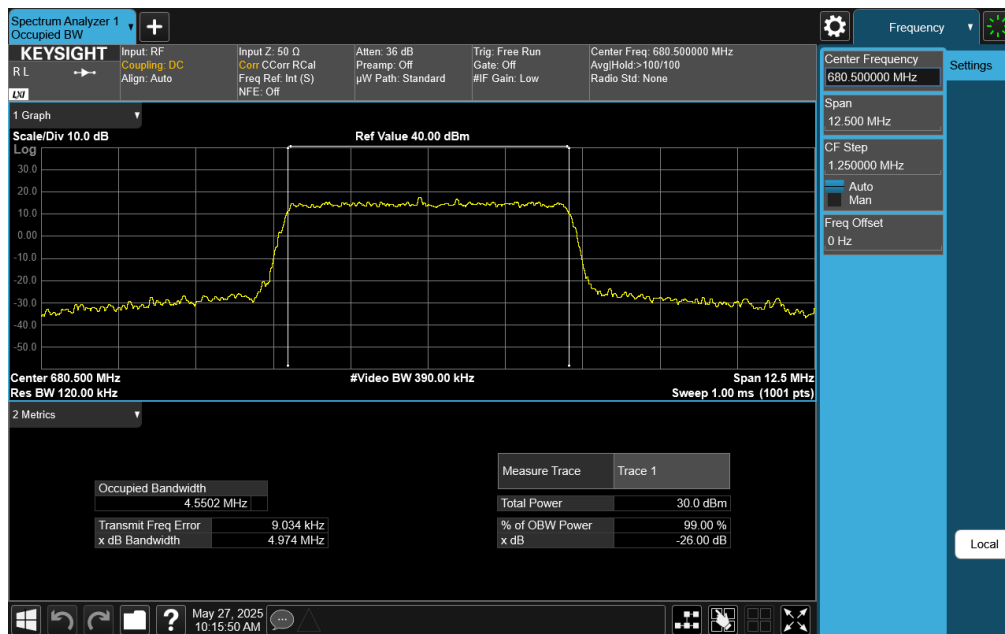
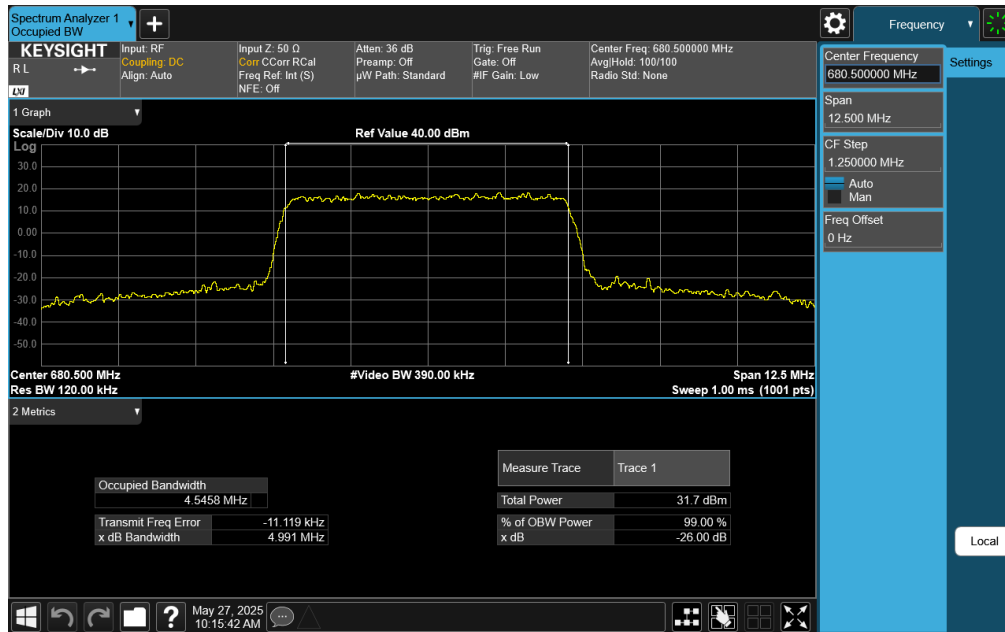


Plot 7-26. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 16-QAM - Full RB)

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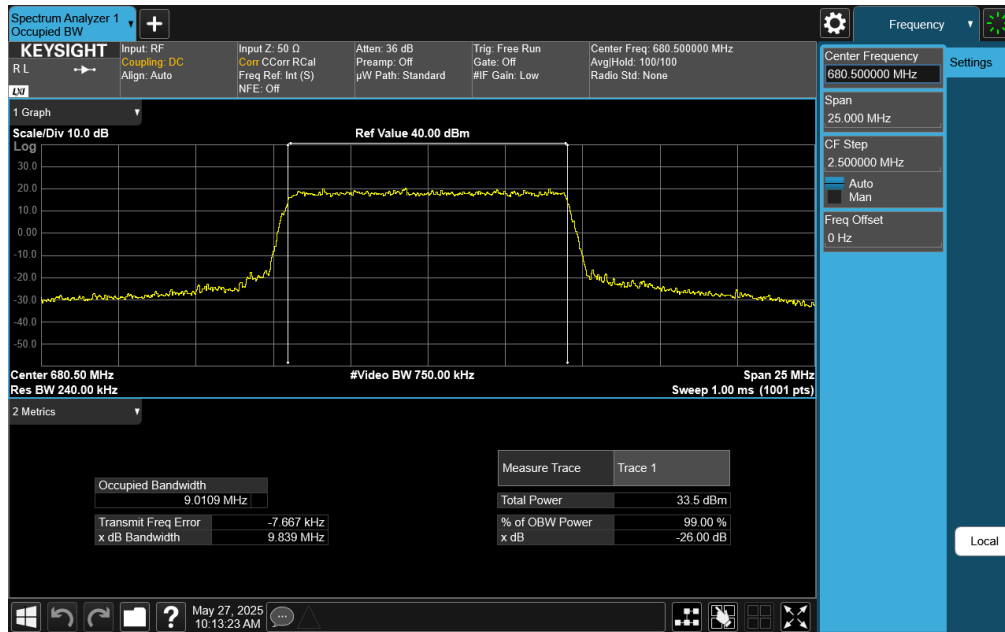
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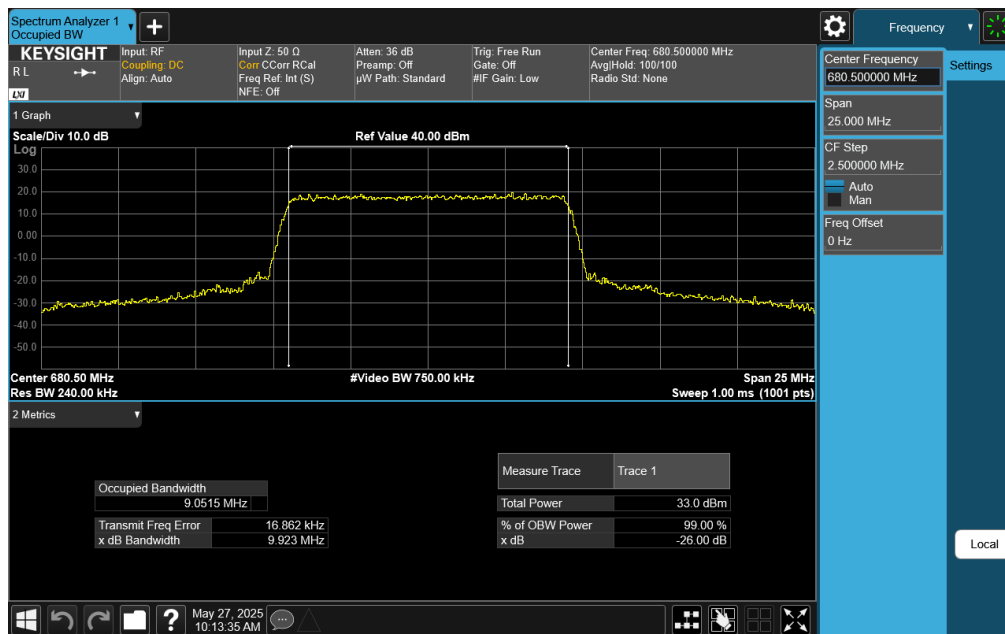
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-29. Occupied Bandwidth Plot (LTE Band 71 - 10MHz QPSK - Full RB)

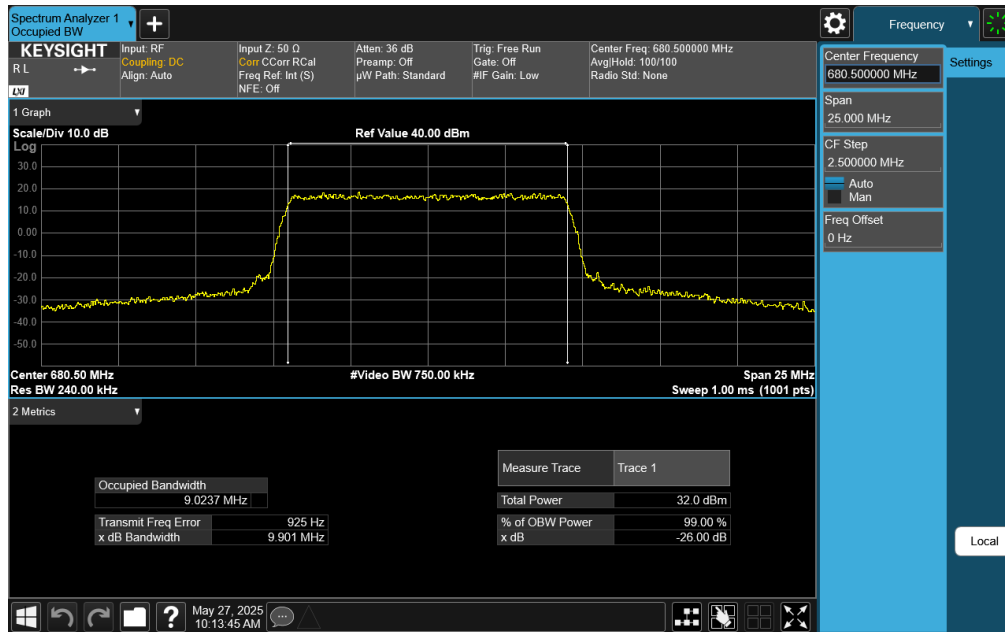


Plot 7-30. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB)

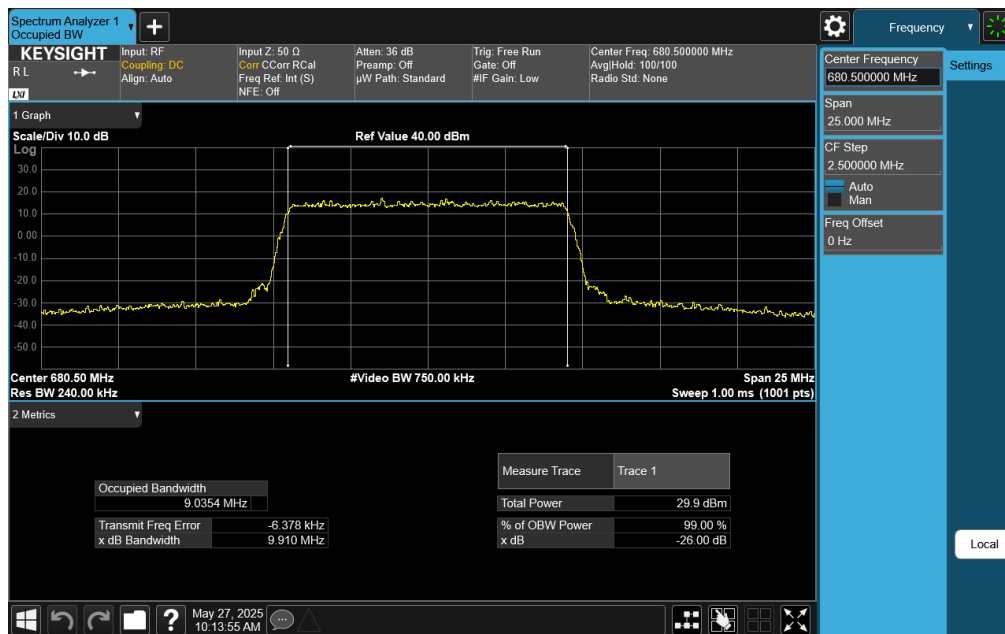
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-31. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 64-QAM - Full RB)

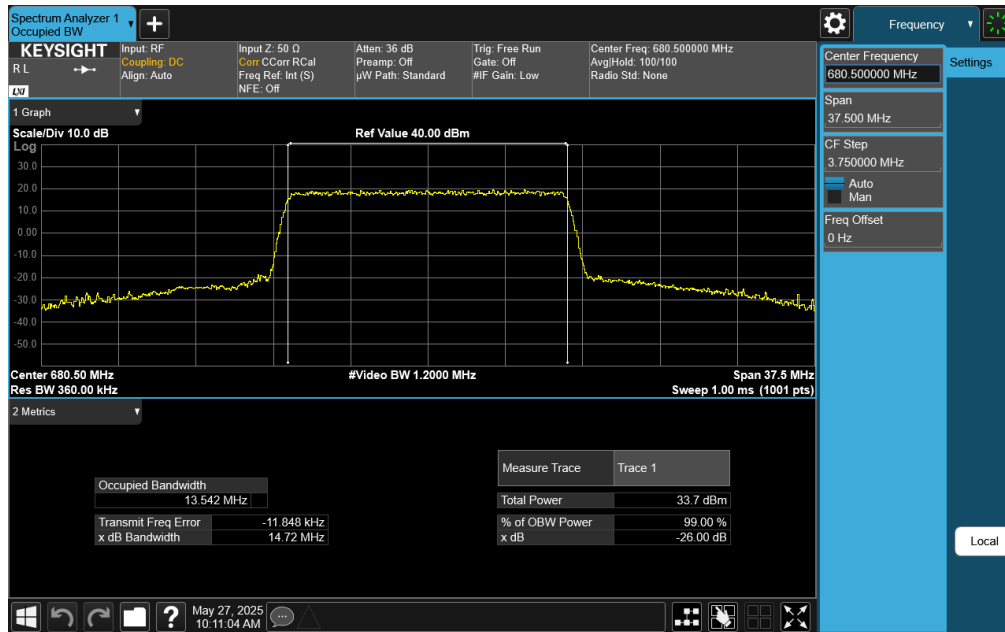


Plot 7-32. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 256-QAM - Full RB)

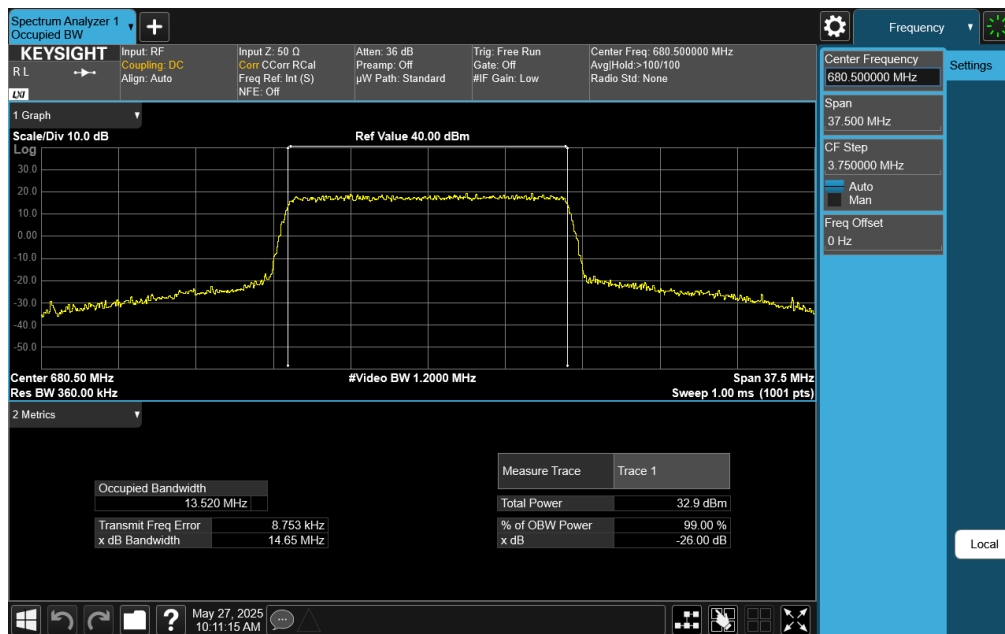
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-33. Occupied Bandwidth Plot (LTE Band 71 - 15MHz QPSK - Full RB)

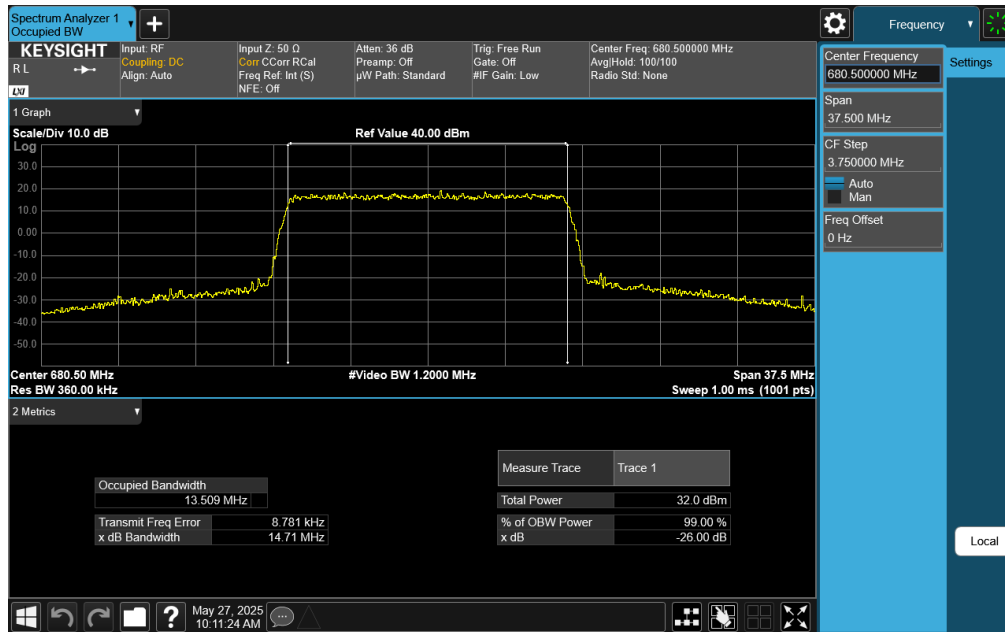


Plot 7-34. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 16-QAM - Full RB)

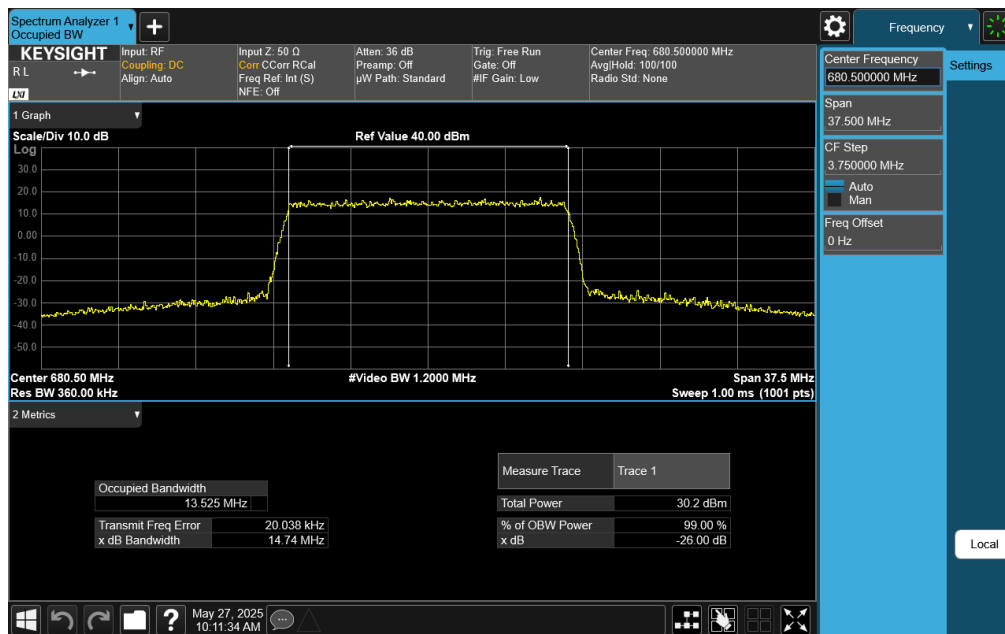
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-35. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 64-QAM - Full RB)

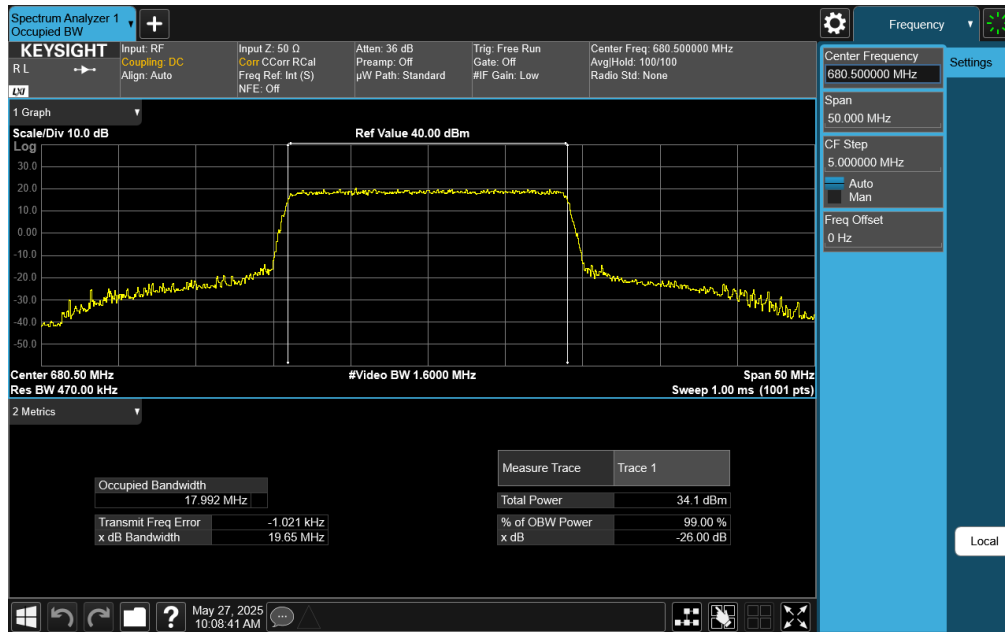


Plot 7-36. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 256-QAM - Full RB)

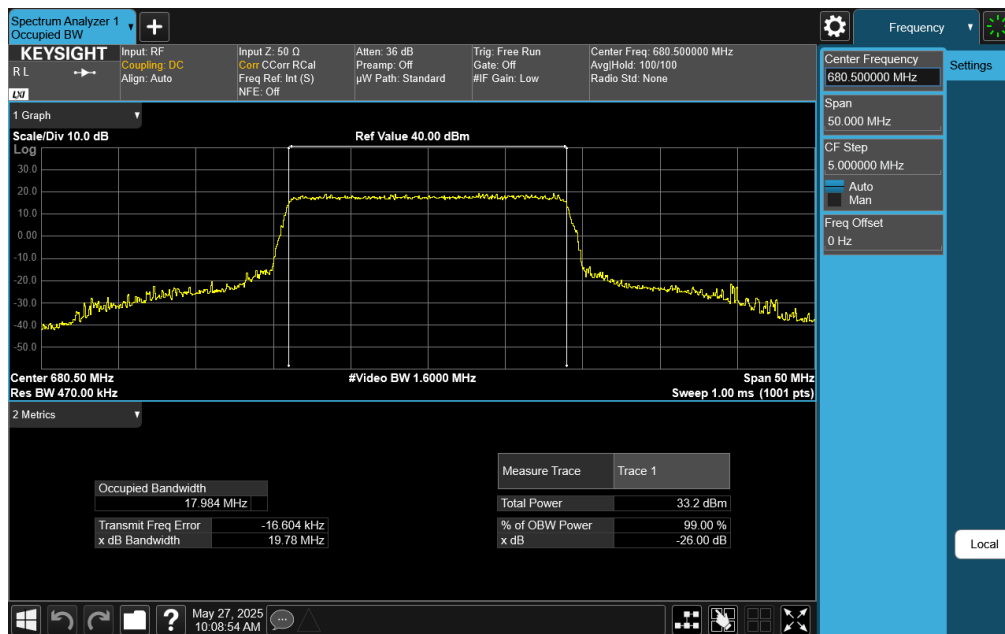
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-37. Occupied Bandwidth Plot (LTE Band 71 - 20MHz QPSK - Full RB)



Plot 7-38. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 16-QAM - Full RB)

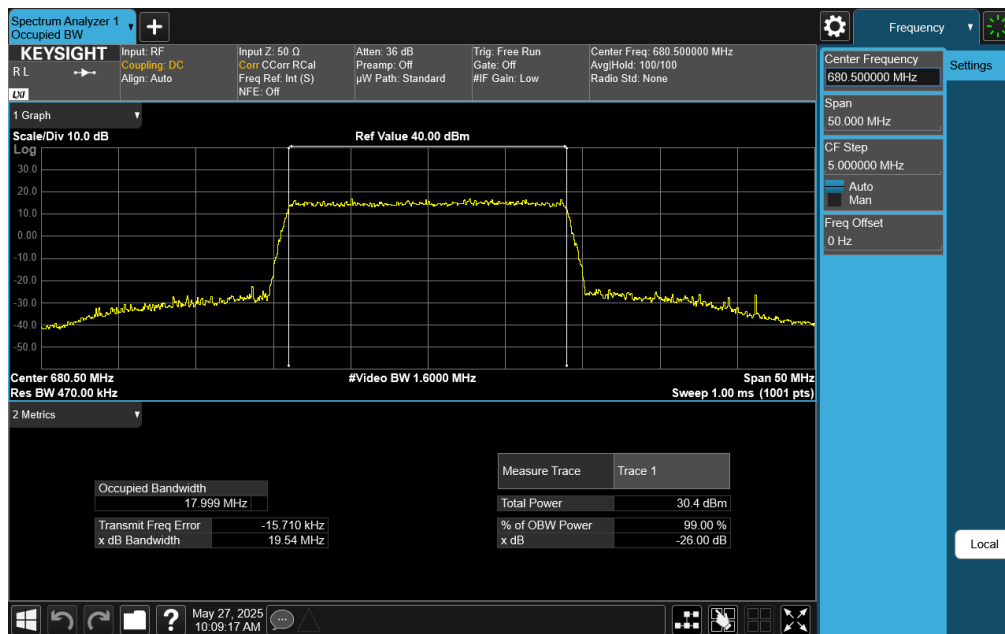
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-39. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 64-QAM - Full RB)

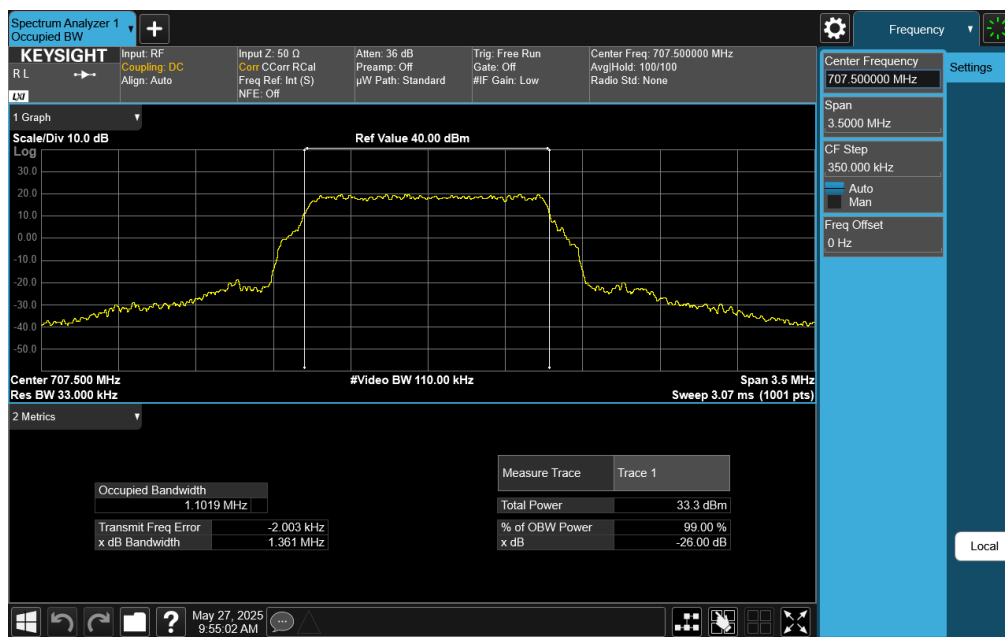


Plot 7-40. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 256-QAM - Full RB)

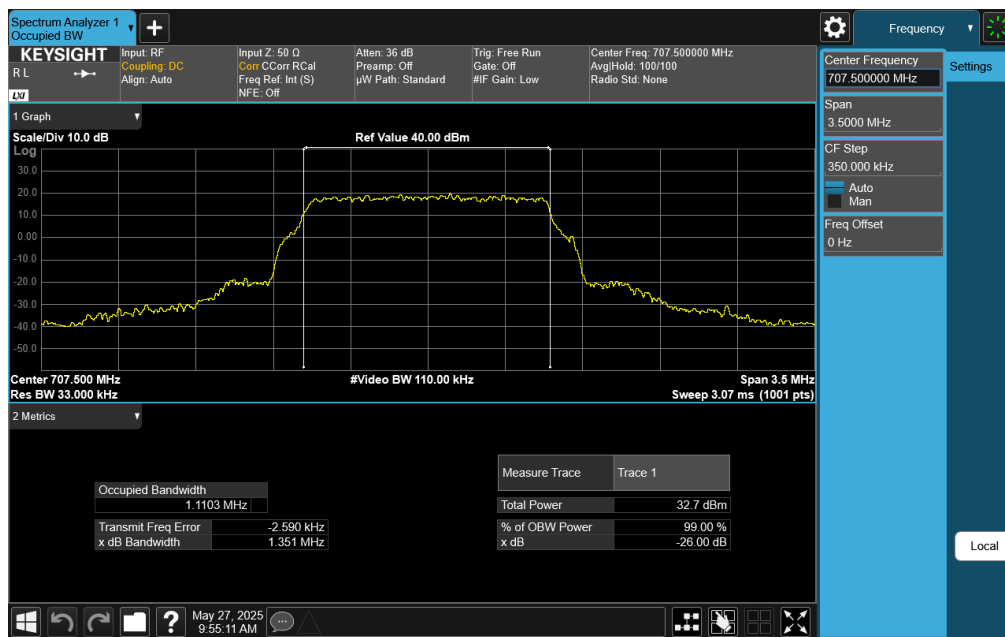
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-41. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz QPSK - Full RB)



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

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Plot 7-43. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 64-QAM - Full RB)

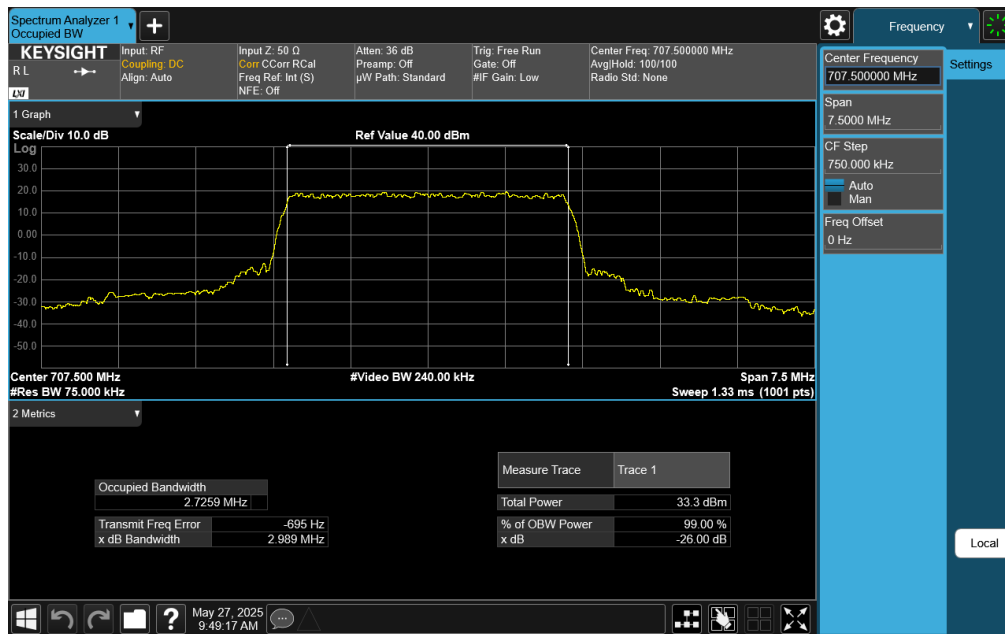


Plot 7-44. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 256-QAM - Full RB)

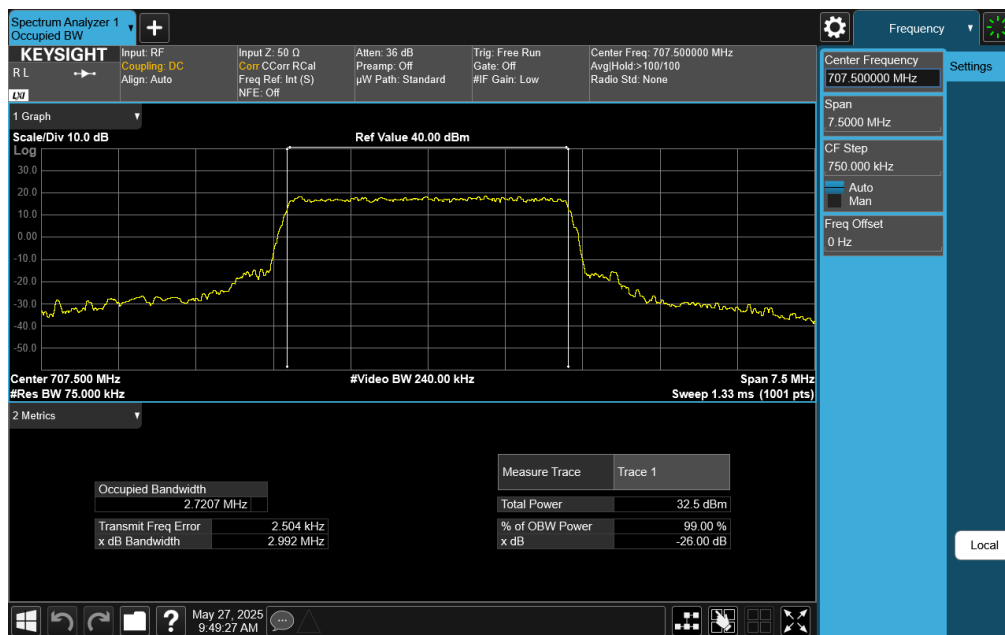
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-45. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB)

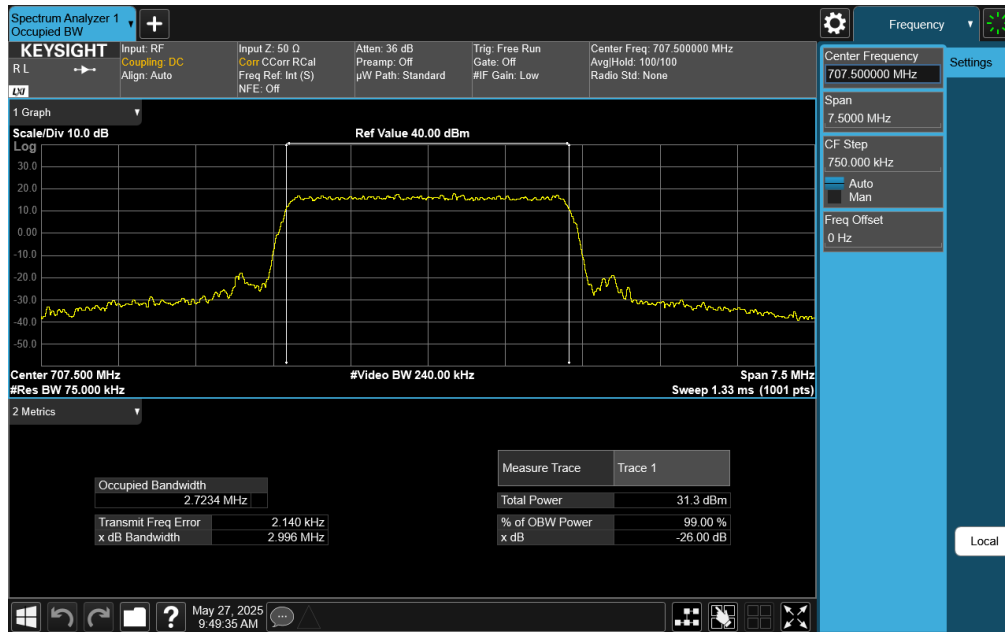


Plot 7-46. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB)

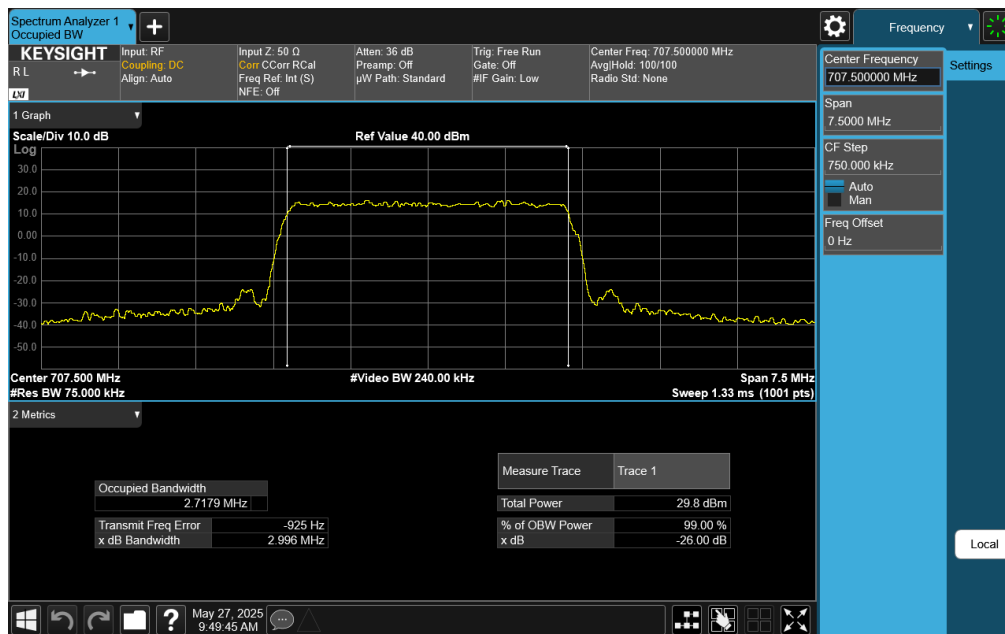
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-47. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 64-QAM - Full RB)

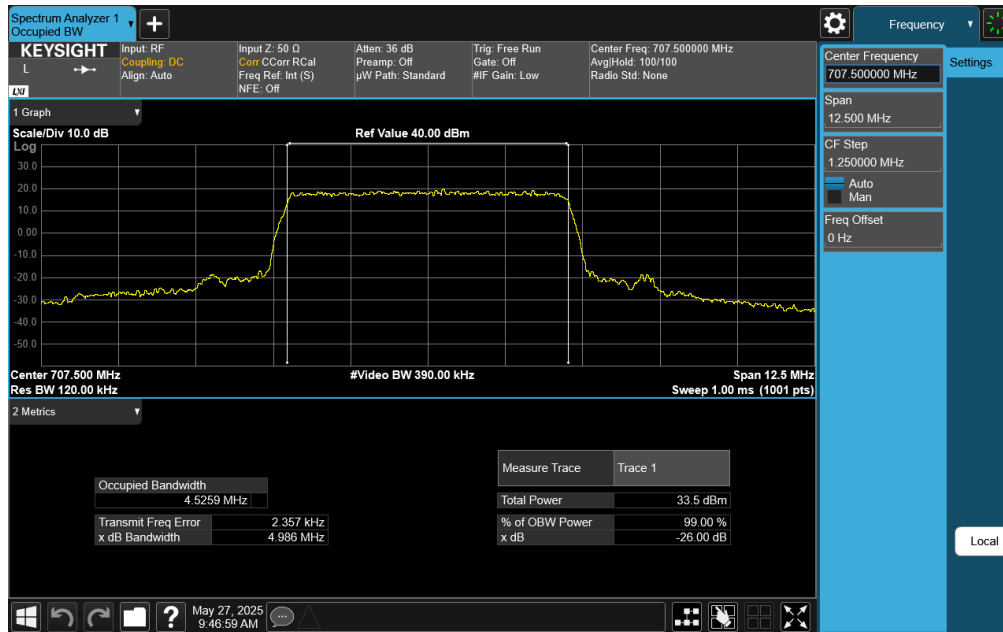


Plot 7-48. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 256-QAM - Full RB)

FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-49. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz QPSK - Full RB)

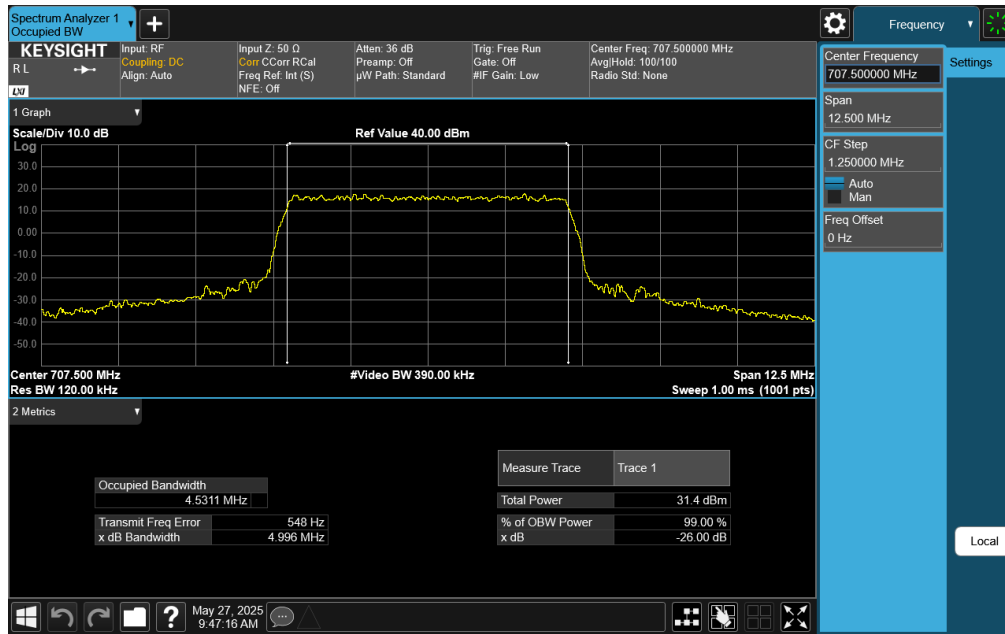


Plot 7-50. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 16-QAM - Full RB)

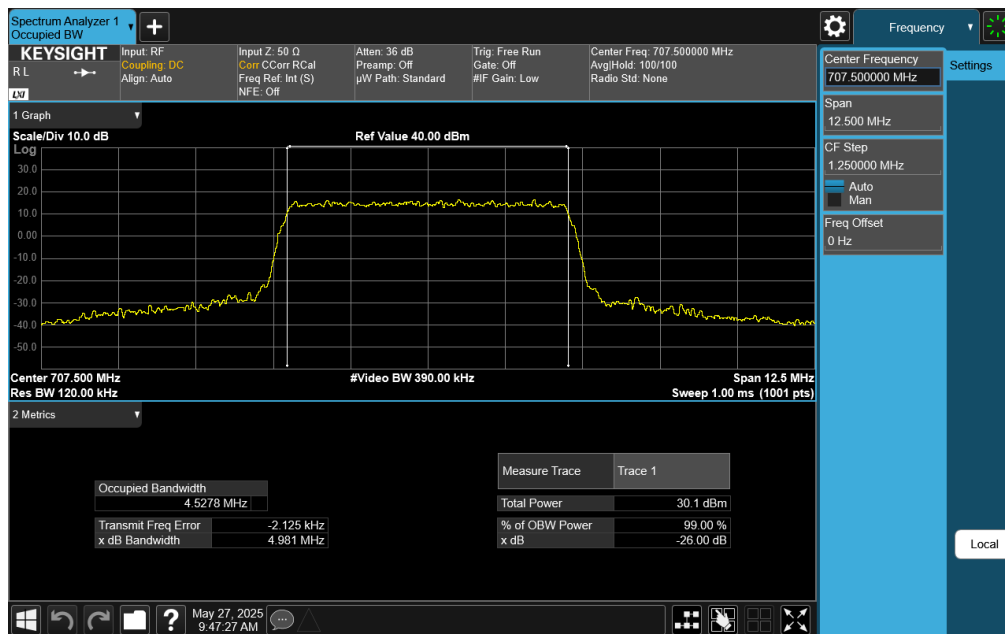
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-51. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 64-QAM - Full RB)

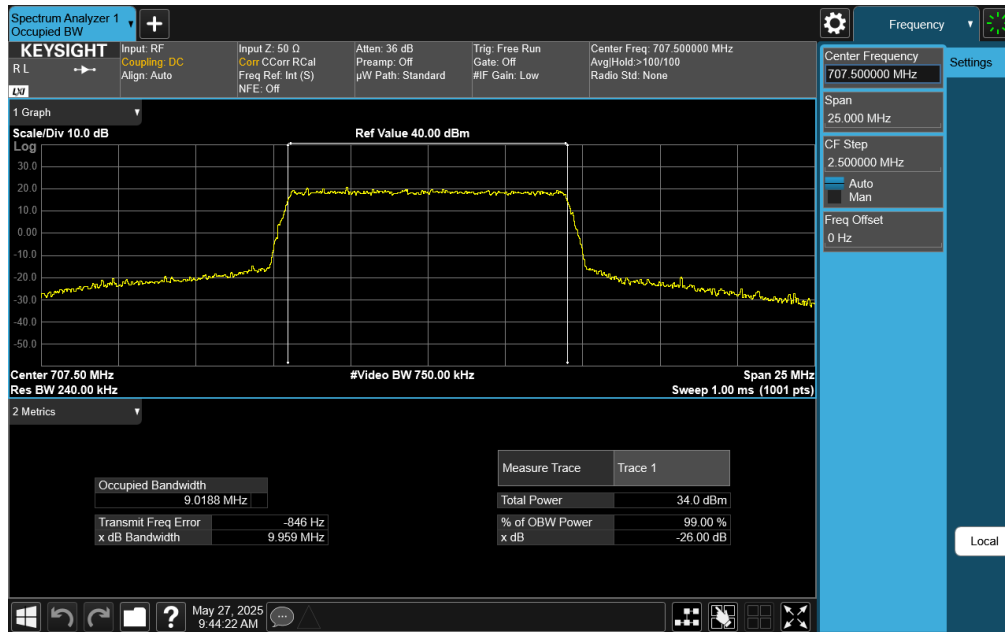


Plot 7-52. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 256-QAM - Full RB)

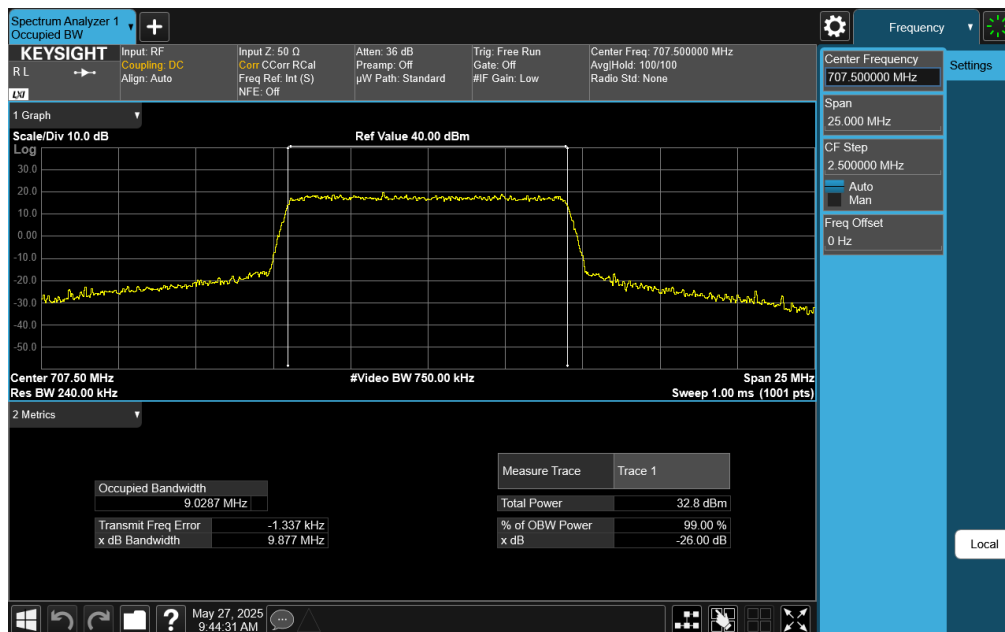
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-53. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB)

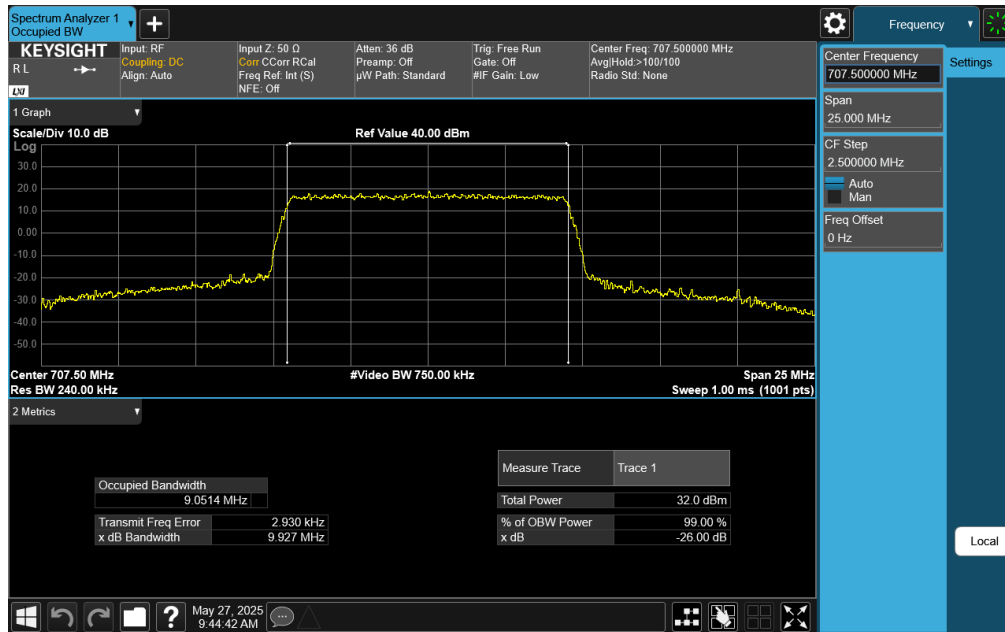


Plot 7-54. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB)

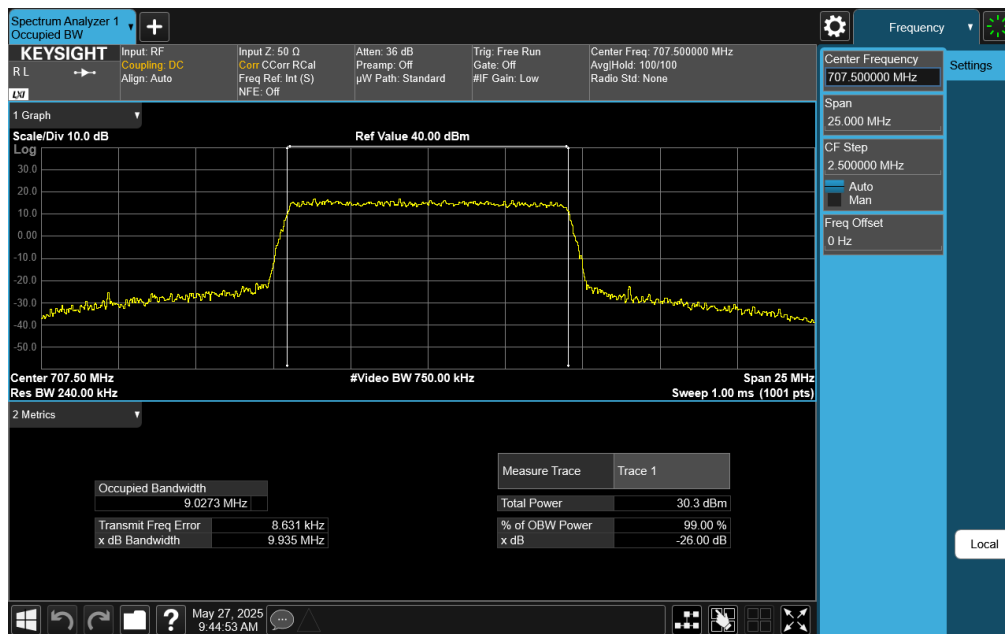
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-55. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 64-QAM - Full RB)



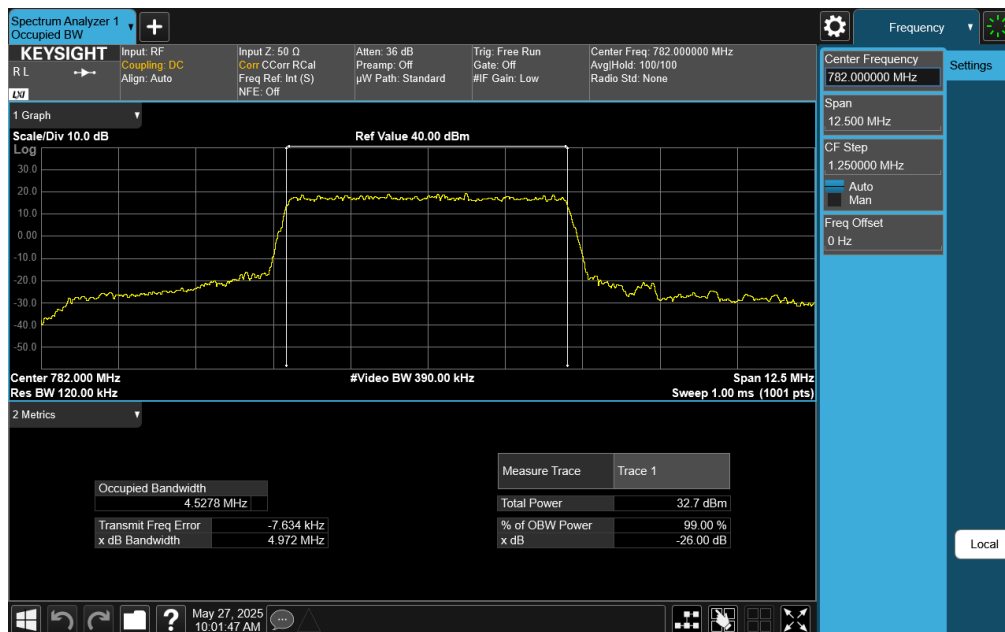
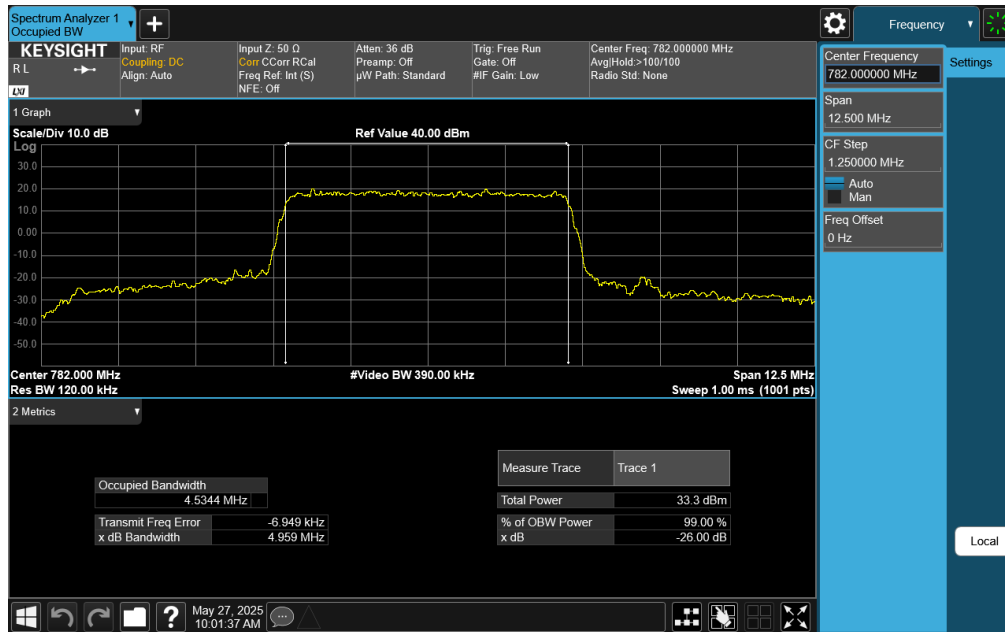
Plot 7-56. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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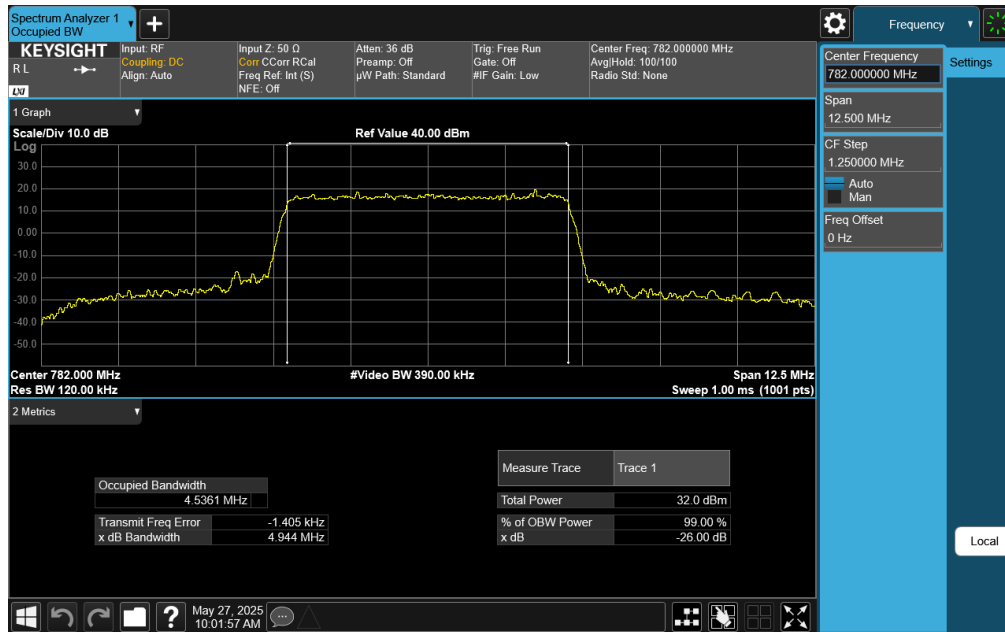
LTE Band 13



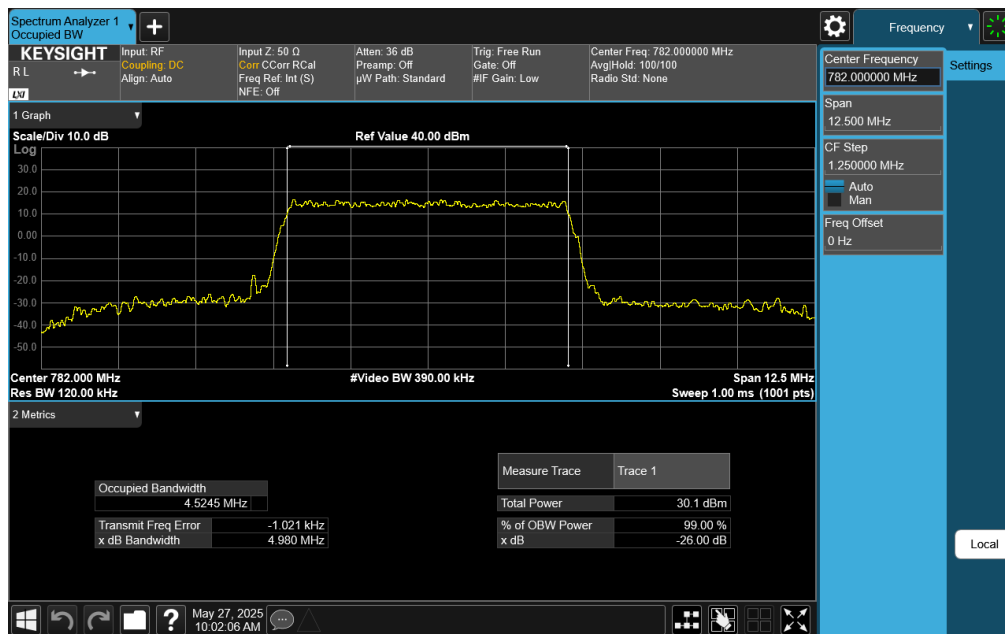
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-59. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 64-QAM - Full RB)

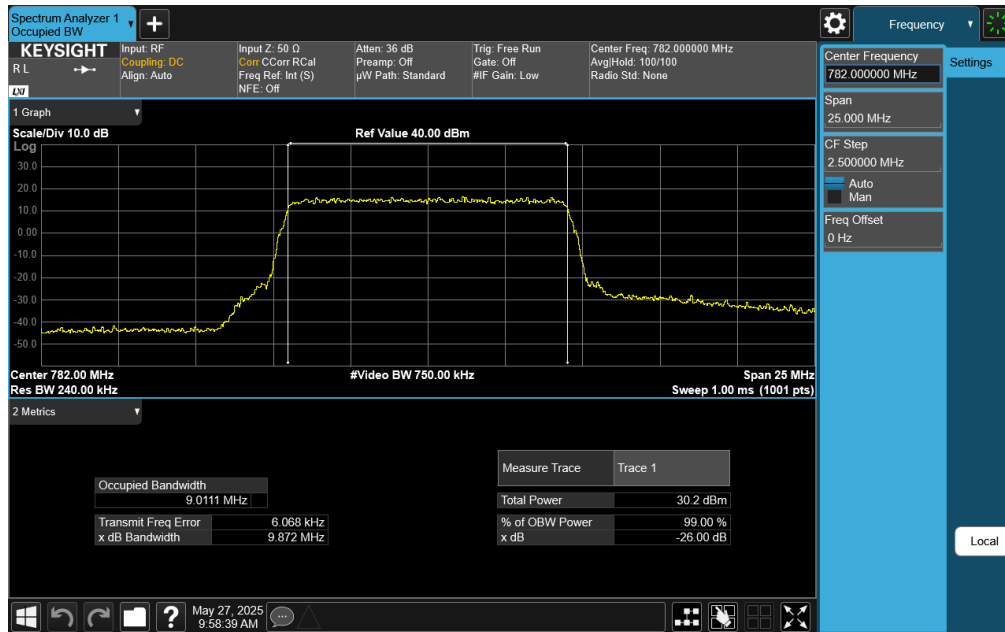


Plot 7-60. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA3361	 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)

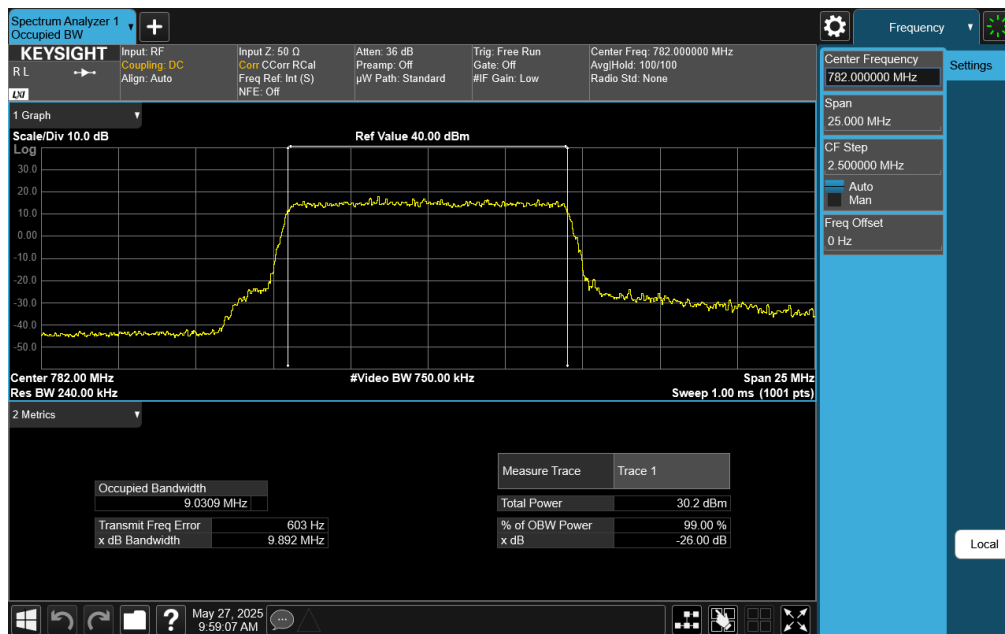
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-63. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 64-QAM - Full RB)

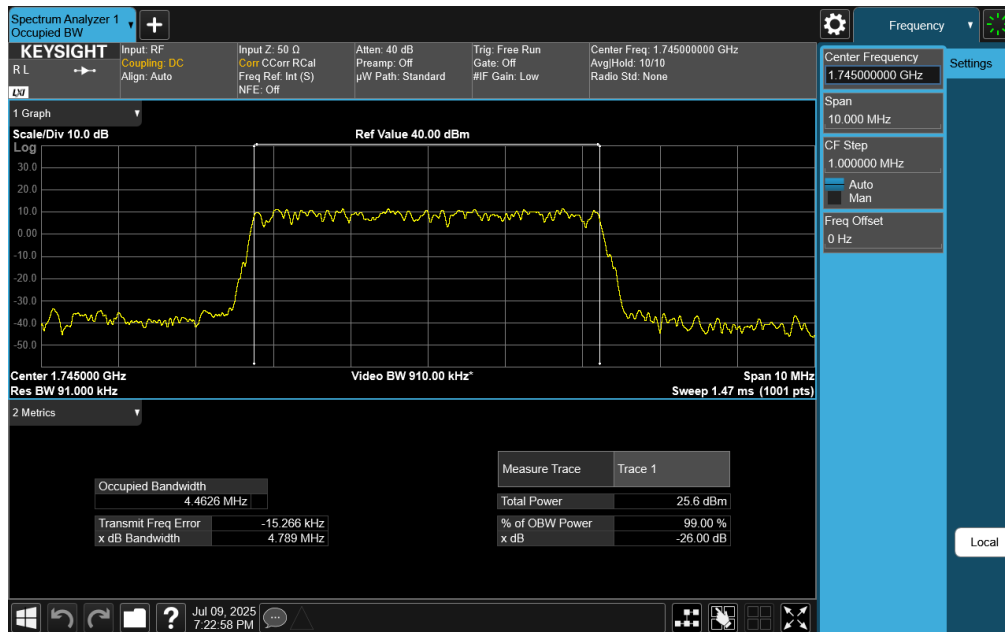


Plot 7-64. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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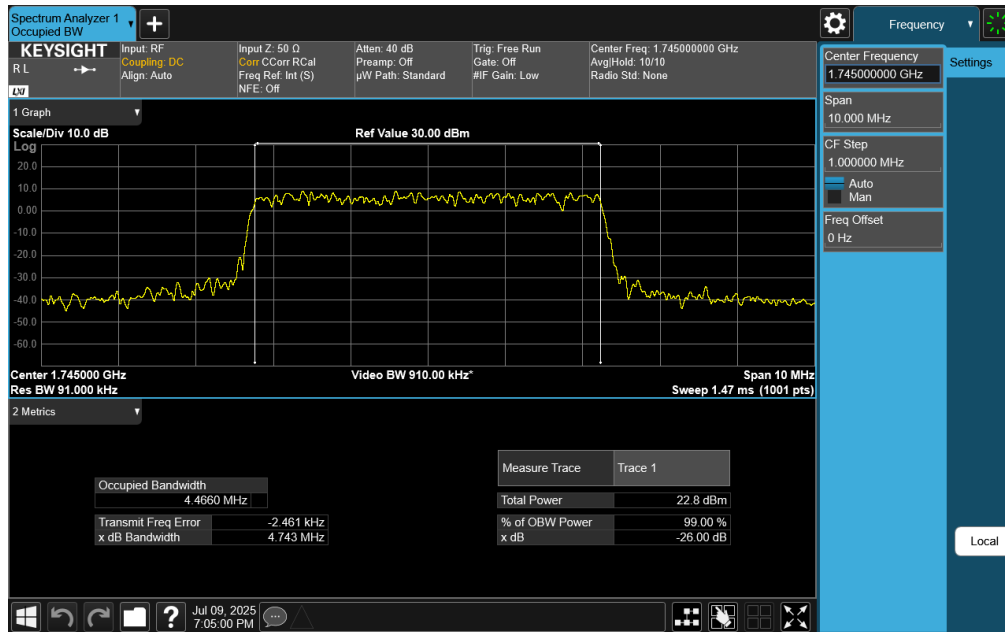


Plot 7-65. Occupied Bandwidth Plot (NR Band n66 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

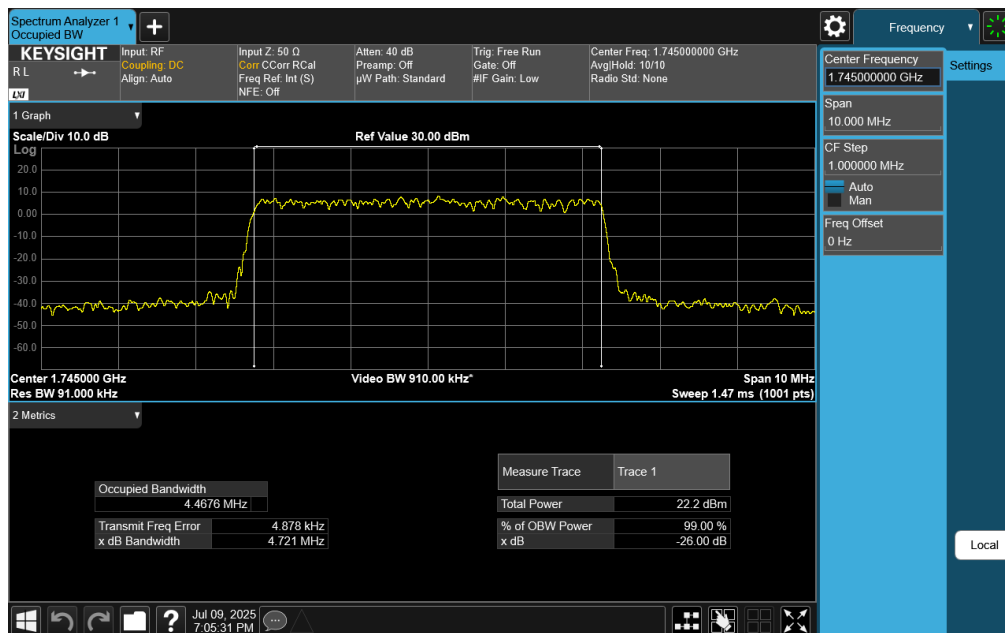


Plot 7-66. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-67. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 16QAM - Full RB)

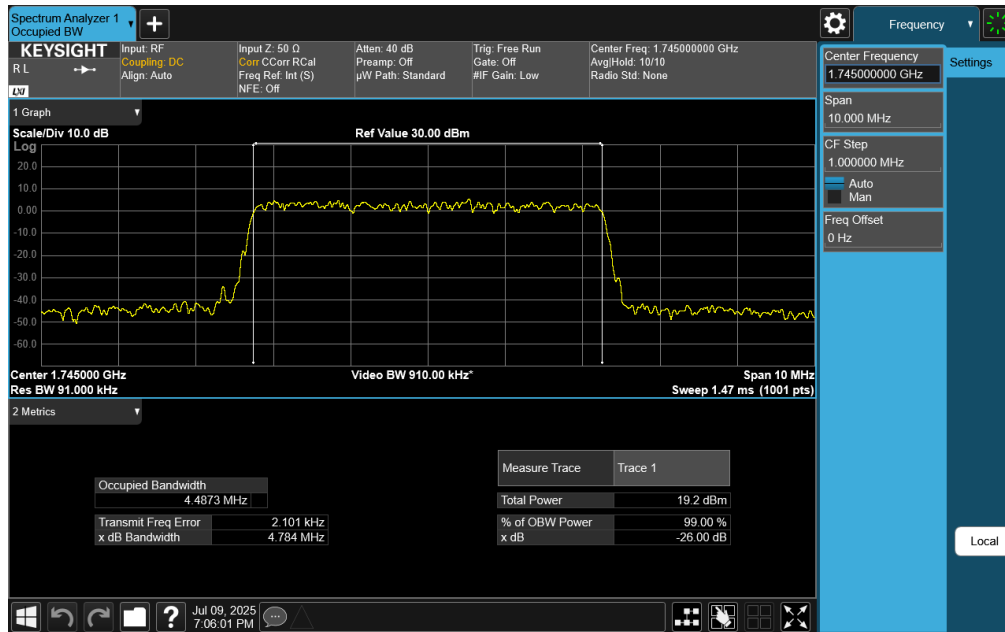


Plot 7-68. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 64QAM - Full RB)

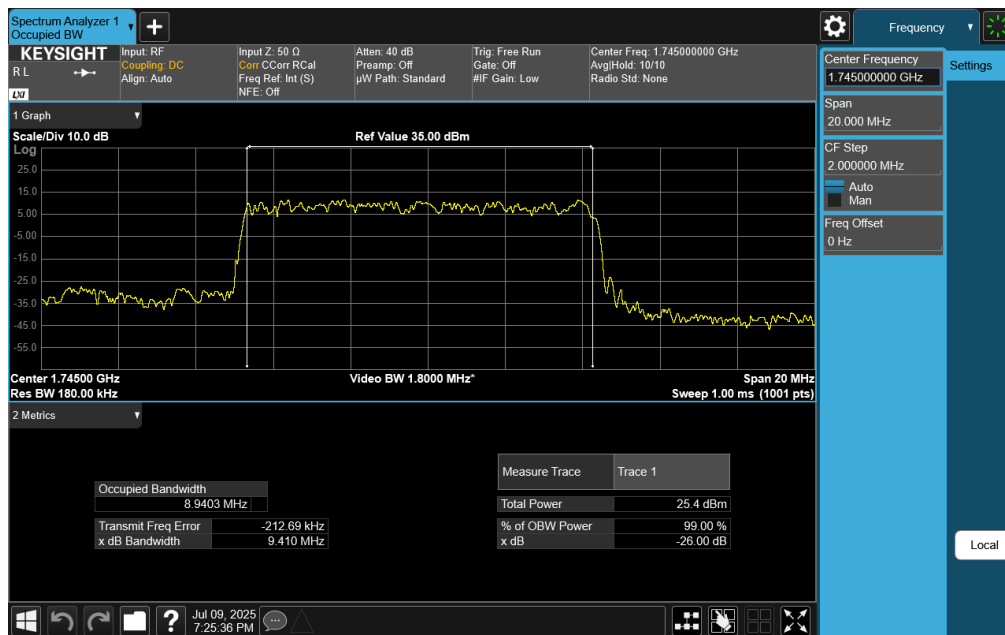
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-69. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 256QAM - Full RB)

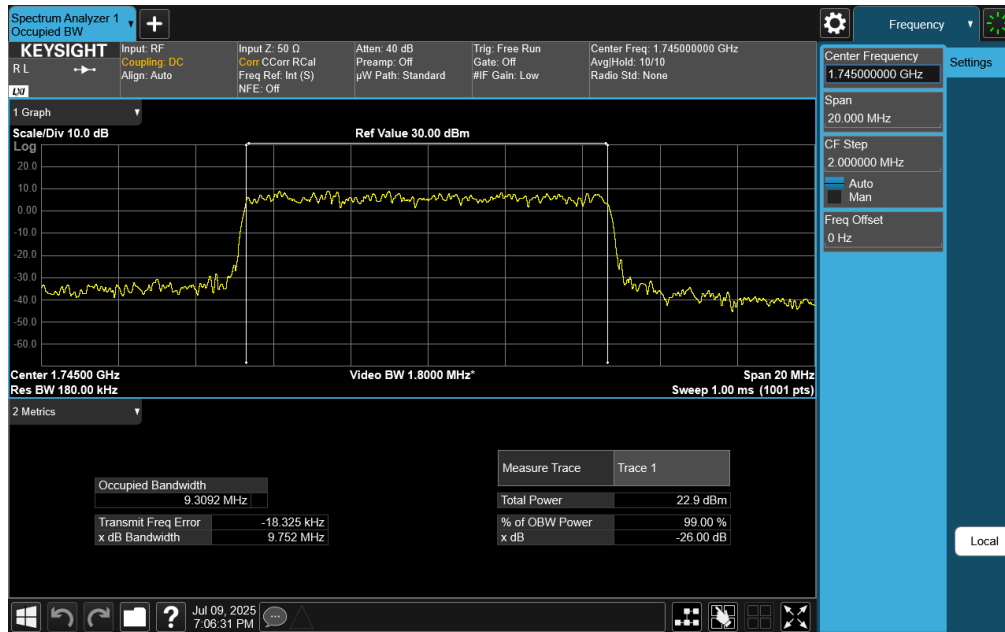


Plot 7-70. Occupied Bandwidth Plot (NR Band n66 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

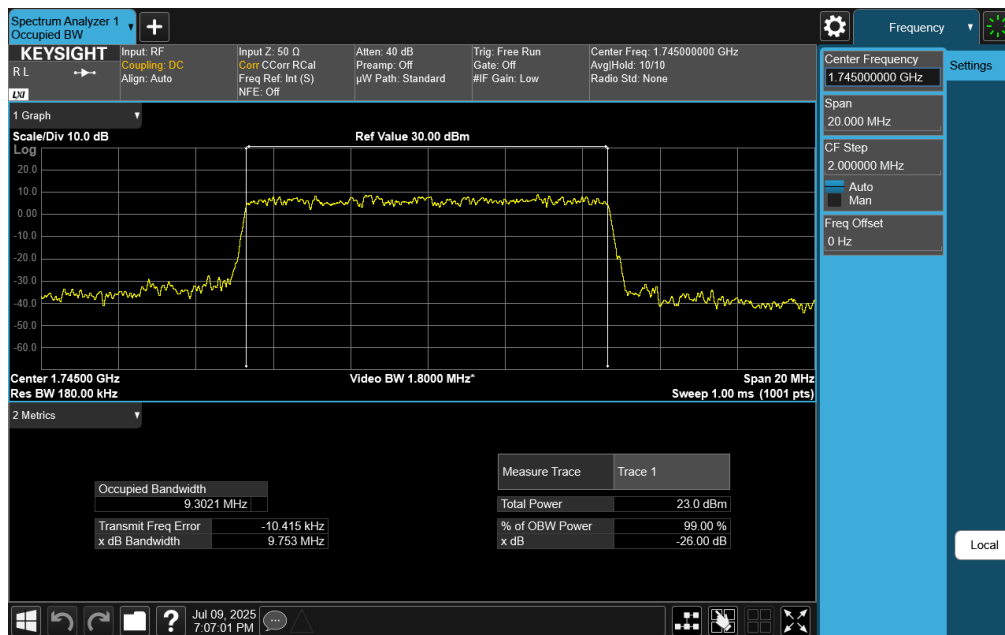
FCC ID: BCGA3361	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM QPSK - Full RB)

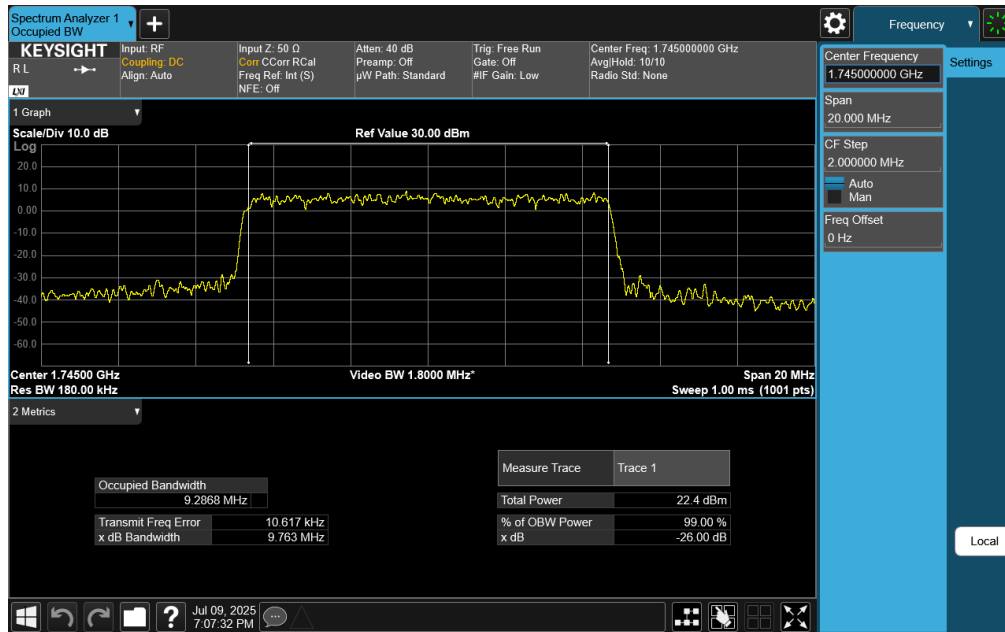


Plot 7-72. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM 16QAM - Full RB)

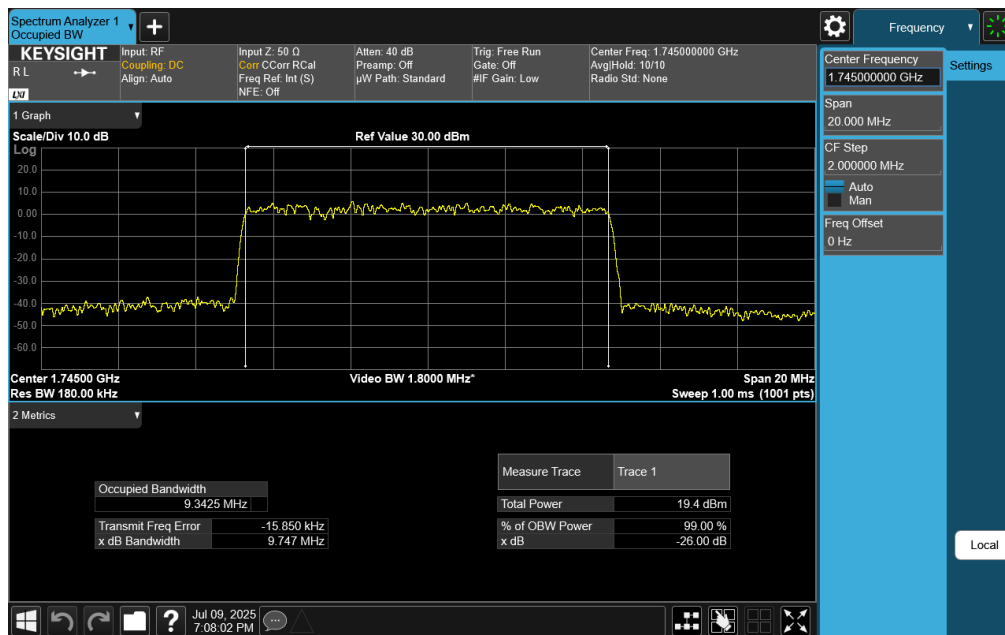
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-73. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM 64QAM - Full RB)

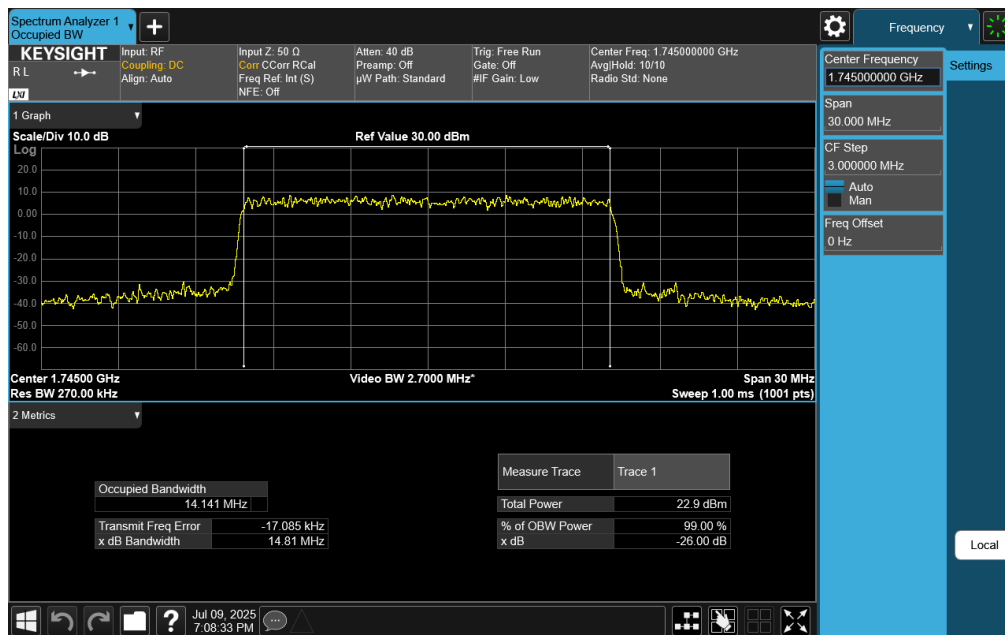
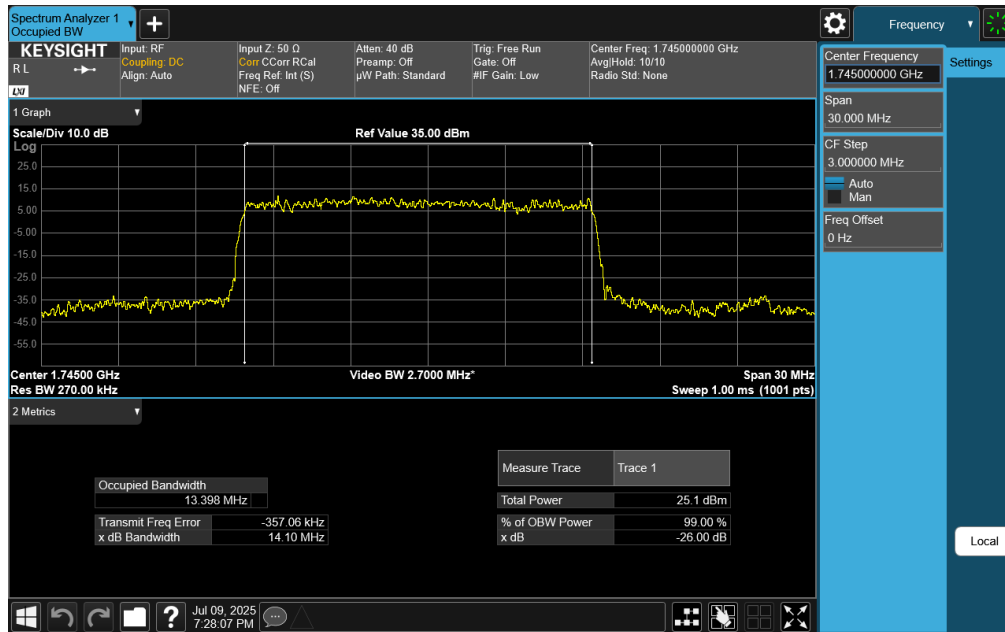


Plot 7-74. Occupied Bandwidth Plot (NR Band n66 - 10MHz CP-OFDM 256QAM - Full RB)

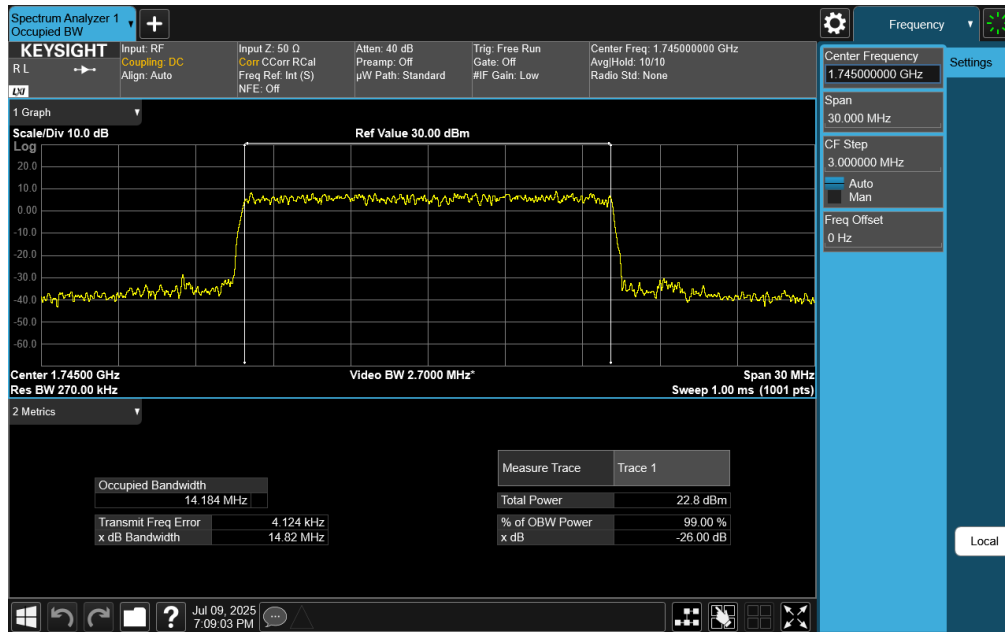
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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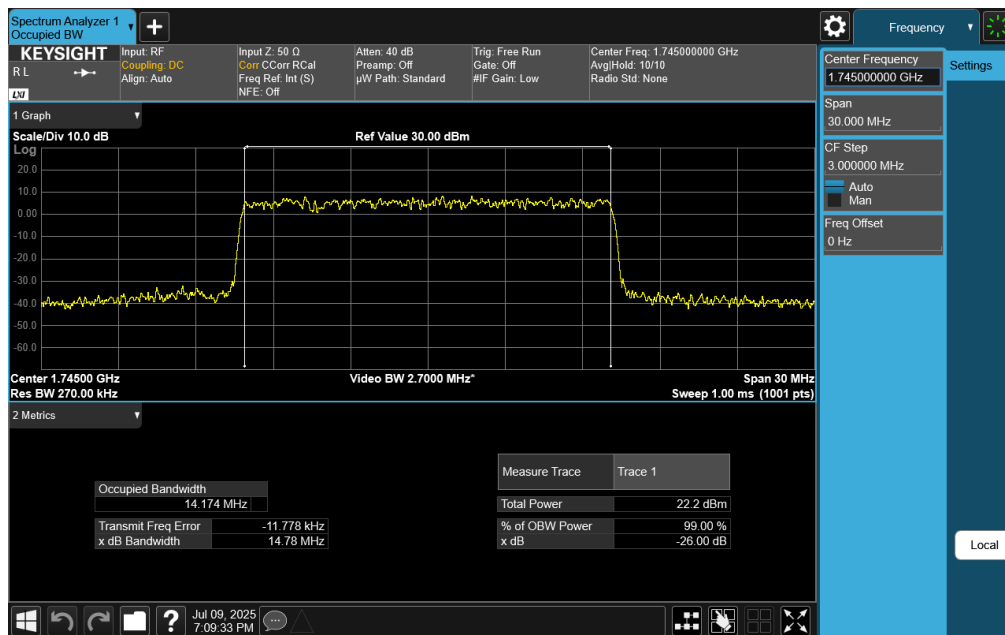
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Plot 7-77. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 16QAM - Full RB)

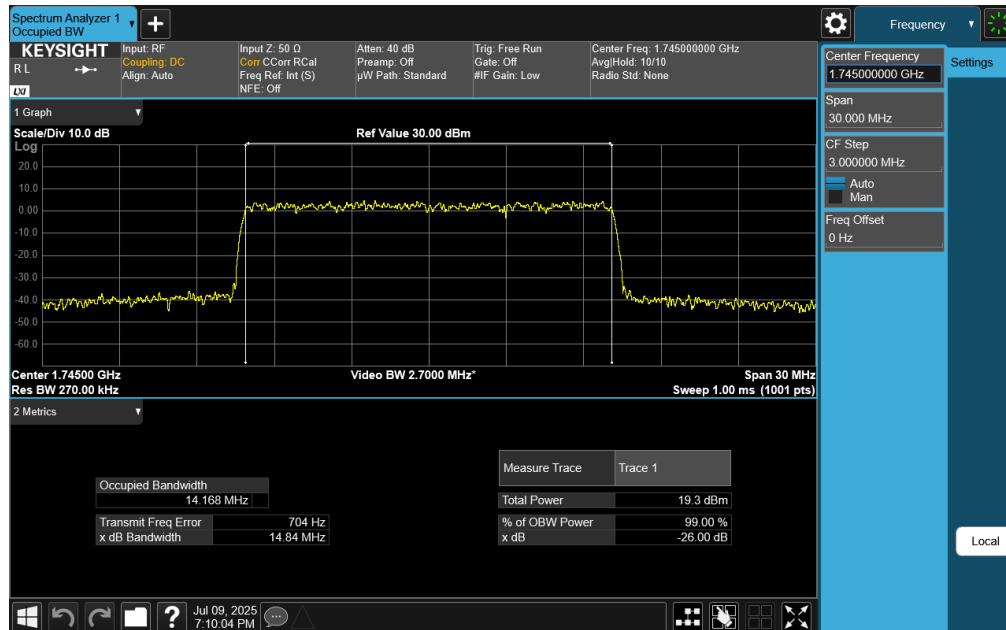


Plot 7-78. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 64QAM - Full RB)

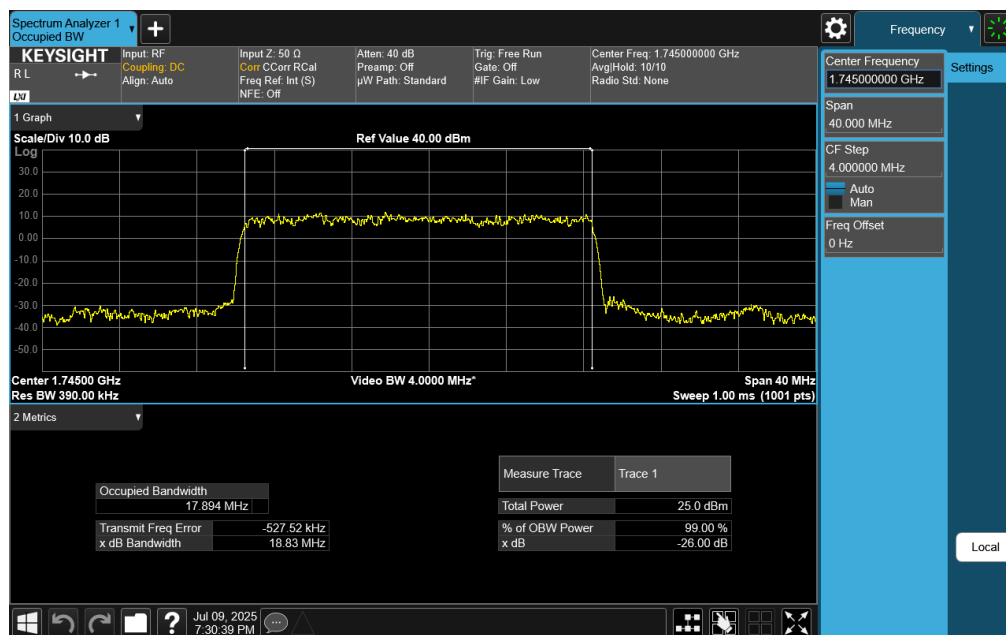
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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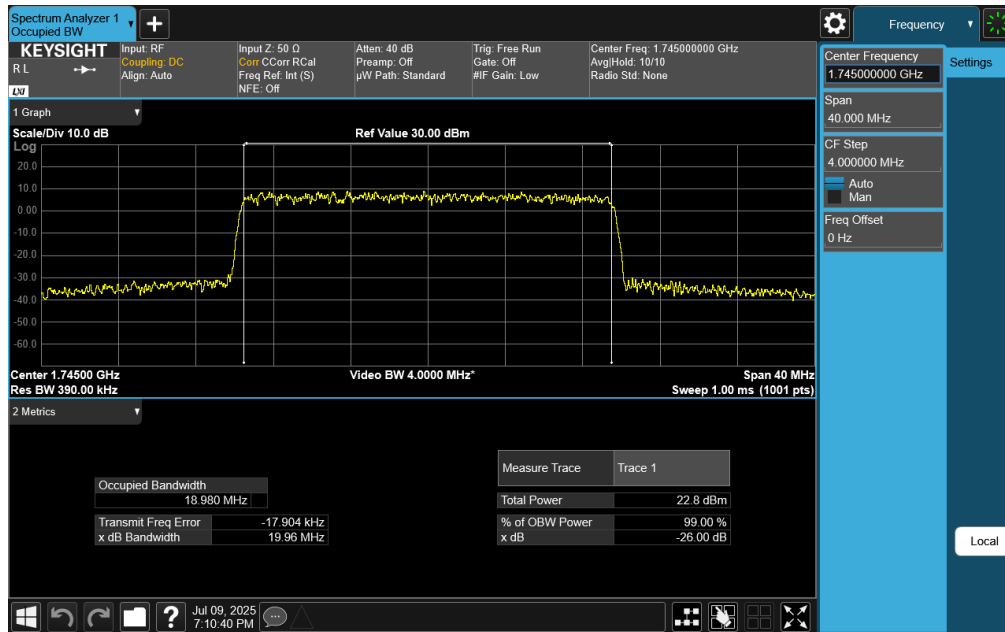


Plot 7-79. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 256QAM - Full RB)

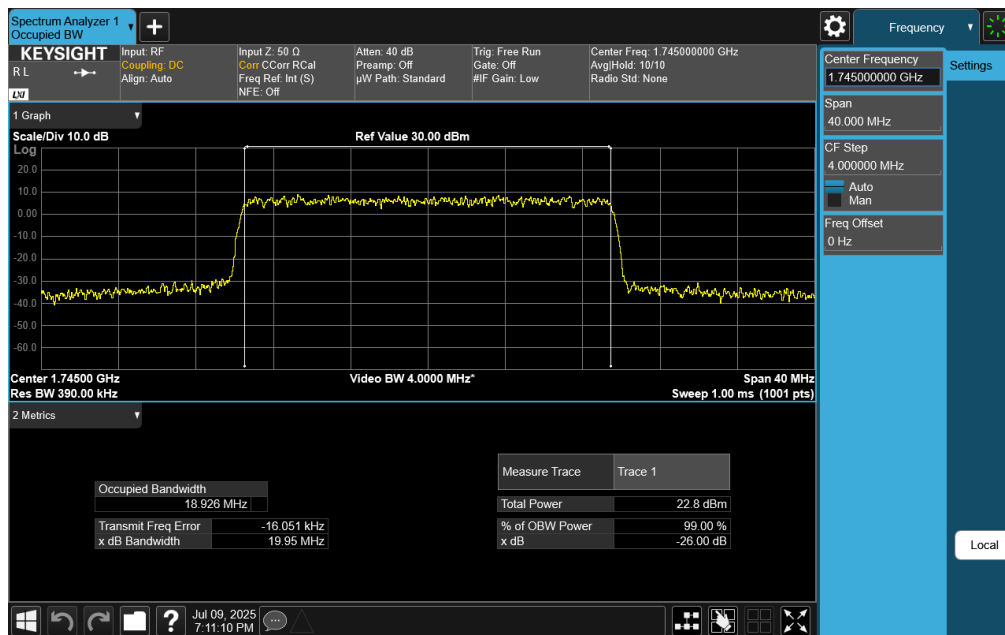


Plot 7-80. Occupied Bandwidth Plot (NR Band n66 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

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Plot 7-81. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM QPSK - Full RB)

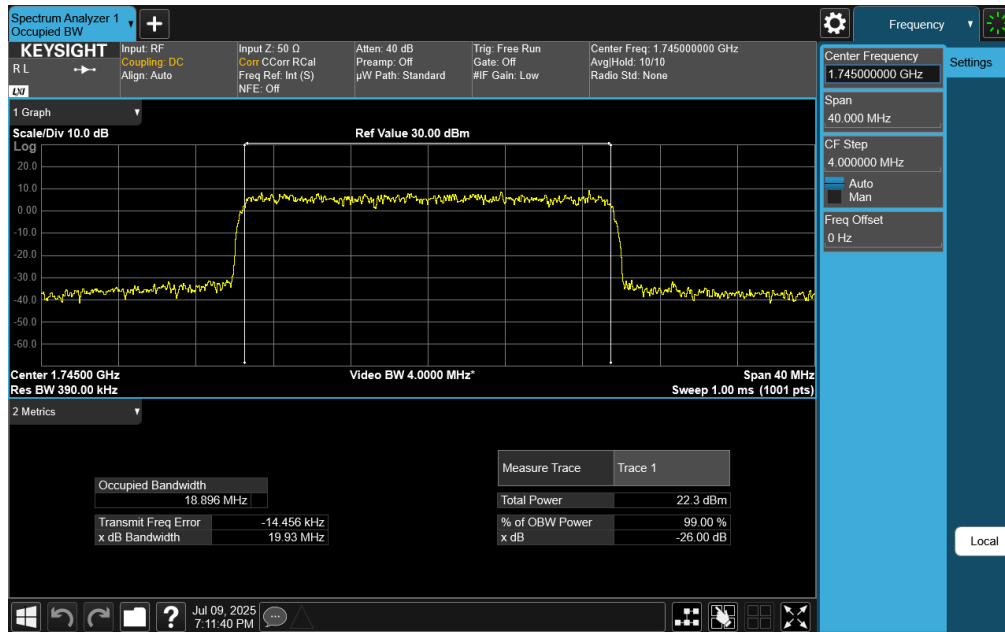


Plot 7-82. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 16QAM - Full RB)

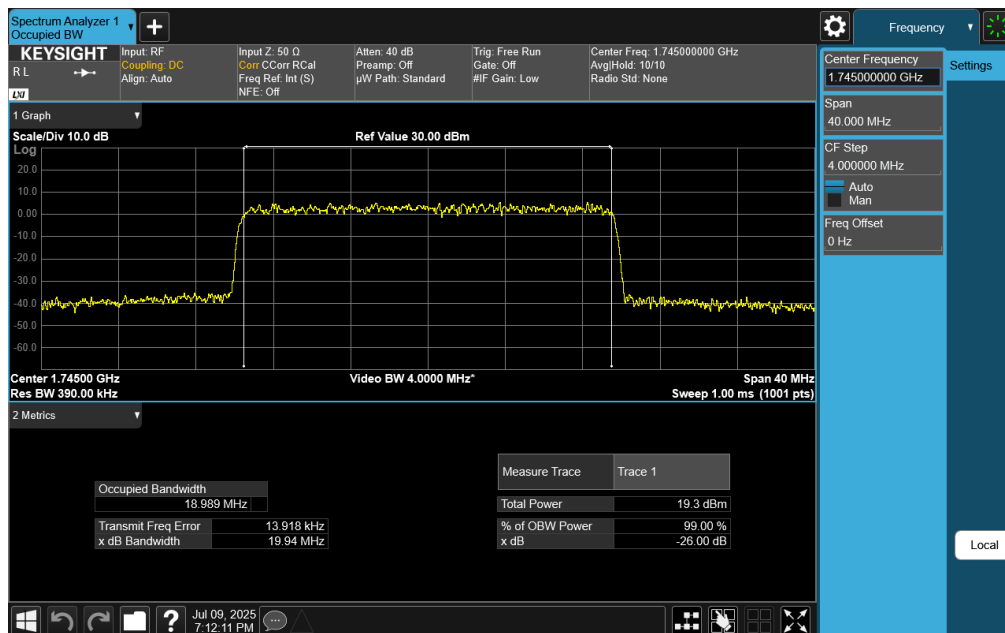
FCC ID: BCGA3361	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-83. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 64QAM - Full RB)

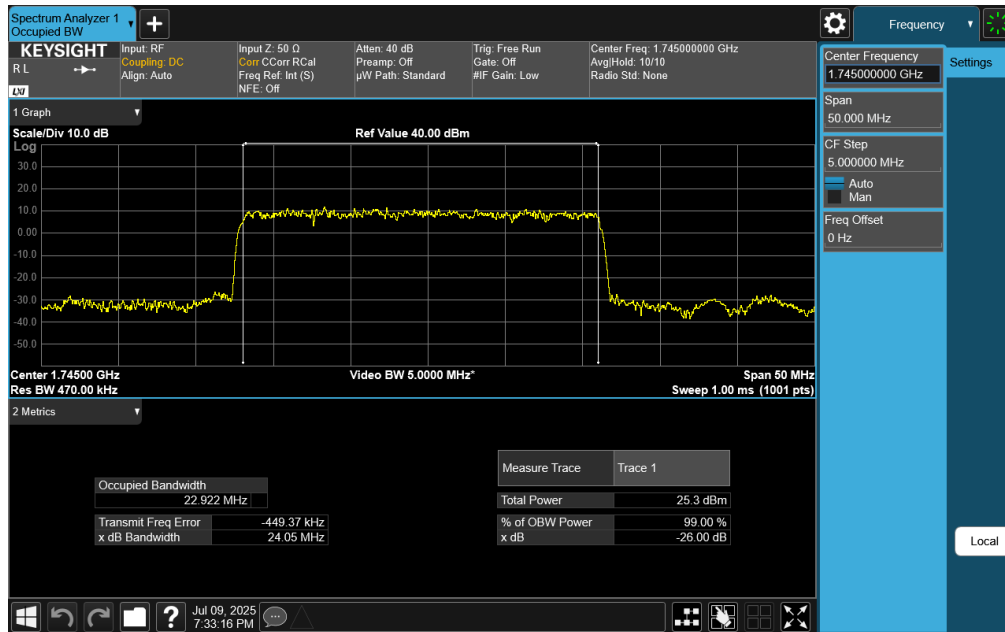


Plot 7-84. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 256QAM - Full RB)

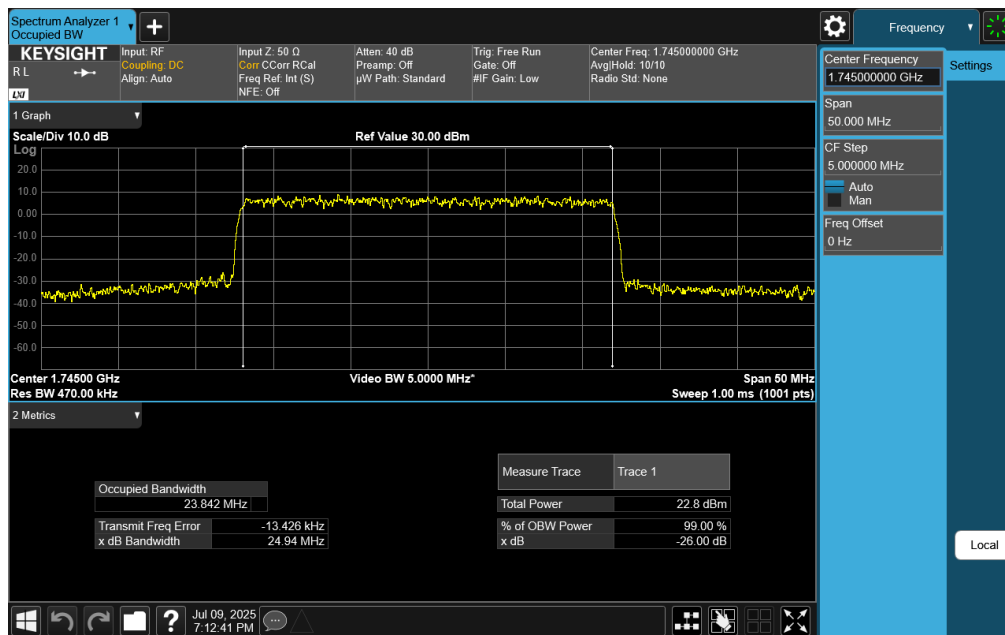
FCC ID: BCGA3361	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-85. Occupied Bandwidth Plot (NR Band n66 - 25MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



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

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