



Element Materials Technology

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PART 27 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing:

4/18/2024 - 6/24/2024

Test Report Issue Date:

9/9/2024

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2405200018-09-R1.BCG

FCC ID: BCGA2995

APPLICANT: Apple Inc.

Application Type: Certification

Model: A2995, A2996

EUT Type: Tablet Device

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part: 27

Test Procedure(s): ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01 v03r01

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

This revised Test Report (S/N: 1C2405200018-09-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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

RJ Ortiz
Executive Vice President

Prepared by: WKR0000007837

Reviewed by: WKR0000005849



FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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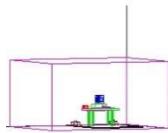
V2.2 09/07/2023

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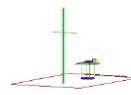
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Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	ERP		Emission Designator
					Max. Power [W]	Max. Power [dBm]	
LTE Band 71	5 MHz	QPSK	665.5 - 695.5	4.5310	0.090	19.55	4M53G7W
		16QAM	665.5 - 695.5	4.5493	0.072	18.56	4M55D7W
		64QAM	665.5 - 695.5	4.5376	0.056	17.46	4M54D7W
		256QAM	665.5 - 695.5	4.5476	0.029	14.65	4M55D7W
	10 MHz	QPSK	668.0 - 693.0	9.0271	0.090	19.55	9M03G7W
		16QAM	668.0 - 693.0	9.0419	0.070	18.47	9M04D7W
		64QAM	668.0 - 693.0	9.0079	0.056	17.51	9M01D7W
		256QAM	668.0 - 693.0	9.0314	0.029	14.60	9M03D7W
	15 MHz	QPSK	670.5 - 690.5	13.5341	0.090	19.55	13M5G7W
		16QAM	670.5 - 690.5	13.5589	0.072	18.58	13M6D7W
		64QAM	670.5 - 690.5	13.5714	0.057	17.59	13M6D7W
		256QAM	670.5 - 690.5	13.5159	0.029	14.62	13M5D7W
	20 MHz	QPSK	673.0 - 688.0	17.9971	0.087	19.38	18M0G7W
		16QAM	673.0 - 688.0	18.0018	0.071	18.53	18M0D7W
		64QAM	673.0 - 688.0	17.9988	0.056	17.52	18M0D7W
		256QAM	673.0 - 688.0	17.9706	0.029	14.61	18M0D7W
LTE Band 12	1.4 MHz	QPSK	699.7 - 715.3	1.1101	0.070	18.43	1M11G7W
		16QAM	699.7 - 715.3	1.1171	0.056	17.52	1M12D7W
		64QAM	699.7 - 715.3	1.1105	0.045	16.51	1M11D7W
		256QAM	699.7 - 715.3	1.1102	0.022	13.45	1M11D7W
	3 MHz	QPSK	700.5 - 714.5	2.7198	0.069	18.41	2M72G7W
		16QAM	700.5 - 714.5	2.7212	0.056	17.52	2M72D7W
		64QAM	700.5 - 714.5	2.7284	0.046	16.60	2M73D7W
		256QAM	700.5 - 714.5	2.7218	0.022	13.42	2M72D7W
	5 MHz	QPSK	701.5 - 713.5	4.5611	0.092	19.65	4M56G7W
		16QAM	701.5 - 713.5	4.5469	0.078	18.94	4M55D7W
		64QAM	701.5 - 713.5	4.5338	0.061	17.85	4M53D7W
		256QAM	701.5 - 713.5	4.5470	0.029	14.69	4M55D7W
	10 MHz	QPSK	704.0 - 711.0	9.0465	0.090	19.52	9M05G7W
		16QAM	704.0 - 711.0	9.0257	0.077	18.86	9M03D7W
		64QAM	704.0 - 711.0	9.0134	0.060	17.77	9M01D7W
		256QAM	704.0 - 711.0	9.0327	0.029	14.68	9M03D7W
LTE Band 17	5 MHz	QPSK	706.5 - 713.5	4.5611	0.092	19.65	4M56G7W
		16QAM	706.5 - 713.5	4.5469	0.077	18.85	4M55D7W
		64QAM	706.5 - 713.5	4.5338	0.060	17.80	4M53D7W
		256QAM	706.5 - 713.5	4.5470	0.031	14.86	4M55D7W
	10 MHz	QPSK	709.0 - 711.0	9.0465	0.089	19.47	9M05G7W
		16QAM	709.0 - 711.0	9.0257	0.075	18.77	9M03D7W
		64QAM	709.0 - 711.0	9.0134	0.060	17.76	9M01D7W
		256QAM	709.0 - 711.0	9.0327	0.029	14.66	9M03D7W
LTE Band 13	5 MHz	QPSK	779.5 - 784.5	4.5529	0.130	21.15	4M55G7W
		16QAM	779.5 - 784.5	4.5528	0.115	20.60	4M55D7W
		64QAM	779.5 - 784.5	4.5530	0.089	19.49	4M55D7W
		256QAM	779.5 - 784.5	4.5490	0.043	16.34	4M55D7W
	10 MHz	QPSK	782.0	9.0094	0.130	21.15	9M01G7W
		16QAM	782.0	9.0462	0.117	20.68	9M05D7W
		64QAM	782.0	9.0422	0.088	19.43	9M04D7W
		256QAM	782.0	8.9989	0.043	16.38	9M00D7W

Overview Table (<1GHz Band)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device			

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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	π/2 BPSK	665.5 - 695.5	4.5212	0.090	19.54	4M52G7W
		QPSK	665.5 - 695.5	4.4918	0.090	19.55	4M49G7W
		16QAM	665.5 - 695.5	4.4923	0.071	18.53	4M49D7W
		64QAM	665.5 - 695.5	4.4769	0.056	17.52	4M48D7W
		256QAM	665.5 - 695.5	4.4805	0.029	14.61	4M48D7W
	10 MHz	π/2 BPSK	668.0 - 693.0	8.9402	0.089	19.49	8M94G7W
		QPSK	668.0 - 693.0	9.2760	0.090	19.55	9M28G7W
		16QAM	668.0 - 693.0	9.3326	0.072	18.55	9M33D7W
		64QAM	668.0 - 693.0	9.2973	0.057	17.56	9M30D7W
		256QAM	668.0 - 693.0	9.2849	0.029	14.62	9M28D7W
	15 MHz	π/2 BPSK	670.5 - 690.5	13.4506	0.090	19.55	13M5G7W
		QPSK	670.5 - 690.5	14.1058	0.087	19.39	14M1G7W
		16QAM	670.5 - 690.5	14.1371	0.071	18.49	14M1D7W
		64QAM	670.5 - 690.5	14.1716	0.056	17.52	14M2D7W
		256QAM	670.5 - 690.5	14.1190	0.030	14.70	14M1D7W
	20 MHz	π/2 BPSK	673.0 - 688.0	17.9379	0.089	19.48	17M9G7W
		QPSK	673.0 - 688.0	18.9386	0.090	19.55	18M9G7W
		16QAM	673.0 - 688.0	19.0137	0.072	18.56	19M0D7W
		64QAM	673.0 - 688.0	18.9251	0.057	17.55	18M9D7W
		256QAM	673.0 - 688.0	18.9725	0.029	14.60	19M0D7W
NR Band n12	5 MHz	π/2 BPSK	701.5 - 713.5	4.4587	0.092	19.65	4M46G7W
		QPSK	701.5 - 713.5	4.4809	0.091	19.59	4M48G7W
		16QAM	701.5 - 713.5	4.5103	0.073	18.63	4M51D7W
		64QAM	701.5 - 713.5	4.4977	0.058	17.65	4M50D7W
		256QAM	701.5 - 713.5	4.4742	0.030	14.75	4M47D7W
	10 MHz	π/2 BPSK	704.0 - 711.0	8.8959	0.092	19.65	8M90G7W
		QPSK	704.0 - 711.0	9.3222	0.092	19.64	9M32G7W
		16QAM	704.0 - 711.0	9.3237	0.074	18.67	9M32D7W
		64QAM	704.0 - 711.0	9.2584	0.058	17.66	9M26D7W
		256QAM	704.0 - 711.0	9.3082	0.030	14.71	9M31D7W
	15 MHz	π/2 BPSK	706.5 - 708.5	13.3992	0.092	19.65	13M4G7W
		QPSK	706.5 - 708.5	14.0790	0.091	19.59	14M1G7W
		16QAM	706.5 - 708.5	14.0544	0.073	18.64	14M1D7W
		64QAM	706.5 - 708.5	14.0643	0.058	17.65	14M1D7W
		256QAM	706.5 - 708.5	14.1007	0.030	14.74	14M1D7W

Overview Table (<1GHz Band)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device			

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	4.1534	2.89	0.443	26.46	4M11F9W
LTE Band 4	1.4 MHz	QPSK	1710.7 - 1754.3	1.1097	5.25	0.447	26.50	1M11G7W
		16QAM	1710.7 - 1754.3	1.1146	6.11	0.351	25.45	1M11D7W
		64QAM	1710.7 - 1754.3	1.1053	6.68	0.282	24.50	1M11D7W
		256QAM	1710.7 - 1754.3	1.1092	7.05	0.144	21.57	1M11D7W
	3 MHz	QPSK	1711.5 - 1753.5	2.7293	5.17	0.446	26.49	2M73G7W
		16QAM	1711.5 - 1753.5	2.7318	6.10	0.355	25.50	2M73D7W
		64QAM	1711.5 - 1753.5	2.7285	6.61	0.279	24.45	2M73D7W
		256QAM	1711.5 - 1753.5	2.7206	6.93	0.144	21.59	2M72D7W
	5 MHz	QPSK	1712.5 - 1752.5	4.5729	5.25	0.447	26.50	4M57G7W
		16QAM	1712.5 - 1752.5	4.5462	6.14	0.350	25.44	4M55D7W
		64QAM	1712.5 - 1752.5	4.5474	6.60	0.269	24.29	4M55D7W
		256QAM	1712.5 - 1752.5	4.5559	6.90	0.141	21.49	4M56D7W
	10MHz	QPSK	1715.0 - 1750.0	9.0360	5.28	0.447	26.50	9M04G7W
		16QAM	1715.0 - 1750.0	9.0431	6.11	0.360	25.56	9M04D7W
		64QAM	1715.0 - 1750.0	9.0481	6.57	0.285	24.55	9M05D7W
		256QAM	1715.0 - 1750.0	9.0436	6.89	0.147	21.66	9M04D7W
	15 MHz	QPSK	1717.5 - 1747.5	13.5743	5.42	0.436	26.39	13M6G7W
		16QAM	1717.5 - 1747.5	13.5954	6.20	0.352	25.46	13M6D7W
		64QAM	1717.5 - 1747.5	13.5602	6.61	0.281	24.48	13M6D7W
		256QAM	1717.5 - 1747.5	13.5509	6.88	0.143	21.54	13M6D7W
	20 MHz	QPSK	1720.0 - 1745.0	18.0601	5.27	0.447	26.50	18M1G7W
		16QAM	1720.0 - 1745.0	18.0211	6.15	0.352	25.47	18M0D7W
		64QAM	1720.0 - 1745.0	18.0426	6.62	0.267	24.26	18M0D7W
		256QAM	1720.0 - 1745.0	18.0274	6.91	0.140	21.47	18M0D7W
LTE Band 66	1.4 MHz	QPSK	1710.7 - 1779.3	1.1097	5.20	0.439	26.42	1M11G7W
		16QAM	1710.7 - 1779.3	1.1146	6.12	0.364	25.61	1M11D7W
		64QAM	1710.7 - 1779.3	1.1053	6.59	0.276	24.41	1M11D7W
		256QAM	1710.7 - 1779.3	1.1092	7.05	0.139	21.44	1M11D7W
	3 MHz	QPSK	1711.5 - 1778.5	2.7293	5.15	0.426	26.29	2M73G7W
		16QAM	1711.5 - 1778.5	2.7318	6.12	0.373	25.72	2M73D7W
		64QAM	1711.5 - 1778.5	2.7285	6.60	0.284	24.54	2M73D7W
		256QAM	1711.5 - 1778.5	2.7206	6.94	0.141	21.48	2M72D7W
	5 MHz	QPSK	1712.5 - 1777.5	4.5729	5.21	0.447	26.50	4M57G7W
		16QAM	1712.5 - 1777.5	4.5462	6.05	0.380	25.80	4M55D7W
		64QAM	1712.5 - 1777.5	4.5474	6.59	0.283	24.52	4M55D7W
		256QAM	1712.5 - 1777.5	4.5559	6.88	0.142	21.51	4M56D7W
	10 MHz	QPSK	1715.0 - 1775.0	9.0360	5.25	0.433	26.36	9M04G7W
		16QAM	1715.0 - 1775.0	9.0431	6.09	0.377	25.76	9M04D7W
		64QAM	1715.0 - 1775.0	9.0481	6.55	0.286	24.56	9M05D7W
		256QAM	1715.0 - 1775.0	9.0436	6.84	0.145	21.60	9M04D7W
	15 MHz	QPSK	1717.5 - 1772.5	13.5743	5.38	0.429	26.32	13M6G7W
		16QAM	1717.5 - 1772.5	13.5954	6.17	0.361	25.57	13M6D7W
		64QAM	1717.5 - 1772.5	13.5602	6.56	0.274	24.37	13M6D7W
		256QAM	1717.5 - 1772.5	13.5509	6.85	0.136	21.34	13M6D7W
	20 MHz	QPSK	1720.0 - 1770.0	18.0601	5.24	0.435	26.38	18M1G7W
		16QAM	1720.0 - 1770.0	18.0211	6.12	0.378	25.77	18M0D7W
		64QAM	1720.0 - 1770.0	18.0426	6.58	0.283	24.52	18M0D7W
		256QAM	1720.0 - 1770.0	18.0274	6.85	0.136	21.34	18M0D7W

Overview Table (>1GHz Bands)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device			

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	π/2 BPSK	1712.5 - 1777.5	4.4889	4.36	0.438	26.41	4M49G7W
		QPSK	1712.5 - 1777.5	4.4829	5.64	0.447	26.50	4M48G7W
	10 MHz	16QAM	1712.5 - 1777.5	4.4896	6.26	0.348	25.41	4M49D7W
		64QAM	1712.5 - 1777.5	4.4643	6.36	0.283	24.52	4M46D7W
		256QAM	1712.5 - 1777.5	4.4843	6.52	0.145	21.62	4M48D7W
	15 MHz	π/2 BPSK	1715.0 - 1775.0	8.9625	4.23	0.443	26.46	8M96G7W
		QPSK	1715.0 - 1775.0	9.2989	5.43	0.447	26.50	9M30G7W
		16QAM	1715.0 - 1775.0	9.3404	6.28	0.352	25.46	9M34D7W
		64QAM	1715.0 - 1775.0	9.3039	6.47	0.283	24.52	9M30D7W
		256QAM	1715.0 - 1775.0	9.2780	6.70	0.145	21.62	9M28D7W
	20 MHz	π/2 BPSK	1717.5 - 1772.5	13.4011	4.35	0.445	26.48	13M4G7W
		QPSK	1717.5 - 1772.5	14.1099	5.43	0.447	26.50	14M1G7W
		16QAM	1717.5 - 1772.5	14.1406	6.14	0.352	25.46	14M1D7W
		64QAM	1717.5 - 1772.5	14.0988	6.45	0.282	24.51	14M1D7W
		256QAM	1717.5 - 1772.5	14.1099	6.58	0.142	21.52	14M1D7W
	25 MHz	π/2 BPSK	1720.0 - 1770.0	17.8965	4.16	0.447	26.50	17M9G7W
		QPSK	1720.0 - 1770.0	18.9601	5.36	0.442	26.45	19M0G7W
		16QAM	1720.0 - 1770.0	19.0285	6.20	0.348	25.42	19M0D7W
		64QAM	1720.0 - 1770.0	18.9280	6.37	0.281	24.49	18M9D7W
		256QAM	1720.0 - 1770.0	19.0081	6.71	0.145	21.60	19M0D7W
	30 MHz	π/2 BPSK	1722.5 - 1767.5	22.8539	4.05	0.437	26.40	22M9G7W
		QPSK	1722.5 - 1767.5	23.8555	5.29	0.447	26.50	23M9G7W
		16QAM	1722.5 - 1767.5	23.7748	6.06	0.355	25.50	23M8D7W
		64QAM	1722.5 - 1767.5	23.9110	6.28	0.277	24.42	23M9D7W
		256QAM	1722.5 - 1767.5	23.7998	6.82	0.141	21.50	23M8D7W
	35 MHz	π/2 BPSK	1725.0 - 1765.0	28.6865	4.15	0.446	26.49	28M7G7W
		QPSK	1725.0 - 1765.0	28.5441	5.34	0.447	26.50	28M5G7W
		16QAM	1725.0 - 1765.0	28.6101	6.13	0.346	25.39	28M6D7W
		64QAM	1725.0 - 1765.0	28.6177	6.38	0.277	24.43	28M6D7W
		256QAM	1725.0 - 1765.0	28.6822	6.63	0.145	21.60	28M7D7W
	40 MHz	π/2 BPSK	1727.5 - 1762.5	32.1916	4.23	0.447	26.50	32M2G7W
		QPSK	1727.5 - 1762.5	33.6859	5.39	0.435	26.38	33M7G7W
		16QAM	1727.5 - 1762.5	33.7138	6.12	0.359	25.55	33M7D7W
		64QAM	1727.5 - 1762.5	33.6176	6.32	0.285	24.55	33M6D7W
		256QAM	1727.5 - 1762.5	33.6530	6.74	0.140	21.47	33M7D7W
NR Band n70	5 MHz	π/2 BPSK	1730.0 - 1760.0	38.5411	4.22	0.447	26.50	38M5G7W
		QPSK	1730.0 - 1760.0	38.7700	5.32	0.441	26.44	38M8G7W
		16QAM	1730.0 - 1760.0	38.7107	6.05	0.352	25.46	38M7D7W
		64QAM	1730.0 - 1760.0	38.7155	6.32	0.285	24.55	38M7D7W
		256QAM	1730.0 - 1760.0	38.6148	6.55	0.146	21.65	38M6D7W
	10 MHz	π/2 BPSK	1712.5 - 1777.5	4.4769	4.29	0.288	24.60	4M48G7W
		QPSK	1712.5 - 1777.5	4.4584	5.31	0.286	24.57	4M46G7W
		16QAM	1712.5 - 1777.5	4.4800	6.26	0.226	23.54	4M48D7W
		64QAM	1712.5 - 1777.5	4.4846	6.49	0.182	22.59	4M48D7W
		256QAM	1712.5 - 1777.5	4.4875	6.75	0.094	19.71	4M49D7W
	15 MHz	π/2 BPSK	1715.0 - 1775.0	8.9747	4.24	0.288	24.60	8M97G7W
		QPSK	1715.0 - 1775.0	9.3417	5.37	0.287	24.58	9M34G7W
		16QAM	1715.0 - 1775.0	9.2676	6.15	0.228	23.57	9M27D7W
		64QAM	1715.0 - 1775.0	9.3075	6.39	0.183	22.62	9M31D7W
		256QAM	1715.0 - 1775.0	9.3049	6.63	0.094	19.72	9M30D7W

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 Materials Technology 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: BCGA2995**. 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.: WH6226Y7R5, D74GQ0GVJR, DVXJDXL1QN, H9HH5F000230000CFX

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 WLAN, 802.11a/n/ac/ax UNII, 802.11a/ax WIFI 6E, 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), NB UNII (1x, HDR4, HDR8), WPT

This device supports BT Beamforming

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	NB UNII	WLAN	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, HDR4/8, LE1/2M	802.15.4	BDR, HDR4/8	802.11 b/g/n/ax	802.11 a/n/ac/ax	802.11 a/ax	LB	MB/HB	Ultra High Band
1a	Config 1	✓	✗	✗	✗	✗	✗	✗	✗	✓
1a	Config 2	✗	✗	✗	✓	✗	✗	✗	✗	✓
1a	Config 3	✗	✓	✗	✗	✗	✗	✗	✗	✓
1b	Config 4	✗	✗	✓	✗	✗	✗	✗	✓	✗
1b	Config 5	✗	✗	✗	✗	✓	✗	✗	✓	✗
1b	Config 6	✗	✗	✗	✗	✗	✓	✗	✓	✗
3a	Config 7	✗	✗	✗	✓	✗	✗	✗	✗	✓
3a	Config 8	✓	✗	✗	✗	✗	✗	✗	✗	✓
3a	Config 9	✗	✓	✗	✗	✗	✗	✗	✗	✓
3b	Config 10	✗	✗	✓	✗	✗	✗	✗	✓	✗
3b	Config 11	✗	✗	✗	✗	✓	✗	✗	✓	✗
3b	Config 12	✗	✗	✗	✗	✗	✓	✗	✓	✗
4	Config 13	✓	✗	✗	✗	✗	✗	✓	✗	✗
4	Config 14	✓	✗	✗	✗	✗	✗	✗	✓	✗
4	Config 15	✓	✗	✗	✗	✗	✗	✗	✗	✓
4	Config 16	✗	✓	✗	✗	✗	✗	✓	✗	✗
4	Config 17	✗	✓	✗	✗	✗	✗	✗	✓	✗
4	Config 18	✗	✓	✗	✗	✗	✗	✗	✗	✓

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 14 and reported in RF Bluetooth, RF FCC Part 27b test reports.

Specific 2.4 GHz Wi-Fi antenna that can only transmit simultaneously with 2.4 GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4 GHz), in both connected and disconnected modes, and Wi-Fi (2.4 GHz) – Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5/6 GHz on separate antenna.

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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 3b	Antenna 1b	Antenna 4	Antenna 2
LTE Band 12/17	x	x	-3.6	-4.2
NR Band 12				
LTE Band 13	x	x	-2.1	-3.3
LTE Band 4/66				
NR Band n66	1.3	-0.9	-1.8	-1.9
WCDMA1700				
LTE Band 71	x	x	-3.7	-4.7
NR Band n71				
NR Band 70	-0.6	-2.5	-5.3	-5.5

Table 2-2. Highest Antenna Gains

x = Not Support

2.4 Test Support Equipment

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

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 22A312 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	180-442A-KF	20dB Nominal Gain Horn Antenna	3/14/2024	Annual	3/14/2025	T058701-01
ESPEC	SU-241	Tabletop Temperature Chamber	11/17/2023	Annual	11/17/2024	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/9/2024	Annual	4/9/2025	00218555
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted Cable *	6/10/2024	Annual	6/10/2025	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/10/2024	Annual	6/10/2025	1946
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Rohde & Schwarz	FSW67	Signal and Spectrum Analyzer (2Hz-67GHz)	7/5/2024	Annual	7/5/2025	101366
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/15/2023	Annual	8/15/2024	101639
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/1/2024	Annual	5/1/2025	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	11/30/2023	Annual	11/30/2024	161616
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/27/2023	Annual	12/27/2024	164715
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

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

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: BCGA2995
 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
RADIATED	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.

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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.

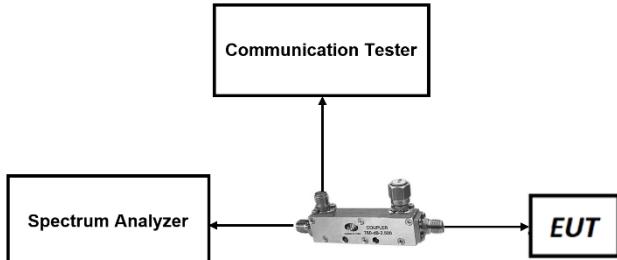


Figure 7-1. LTE Test Instrument & Measurement Setup

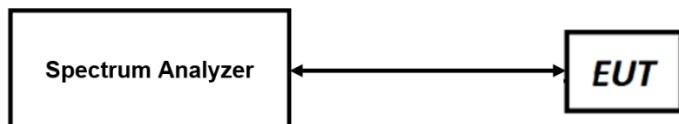


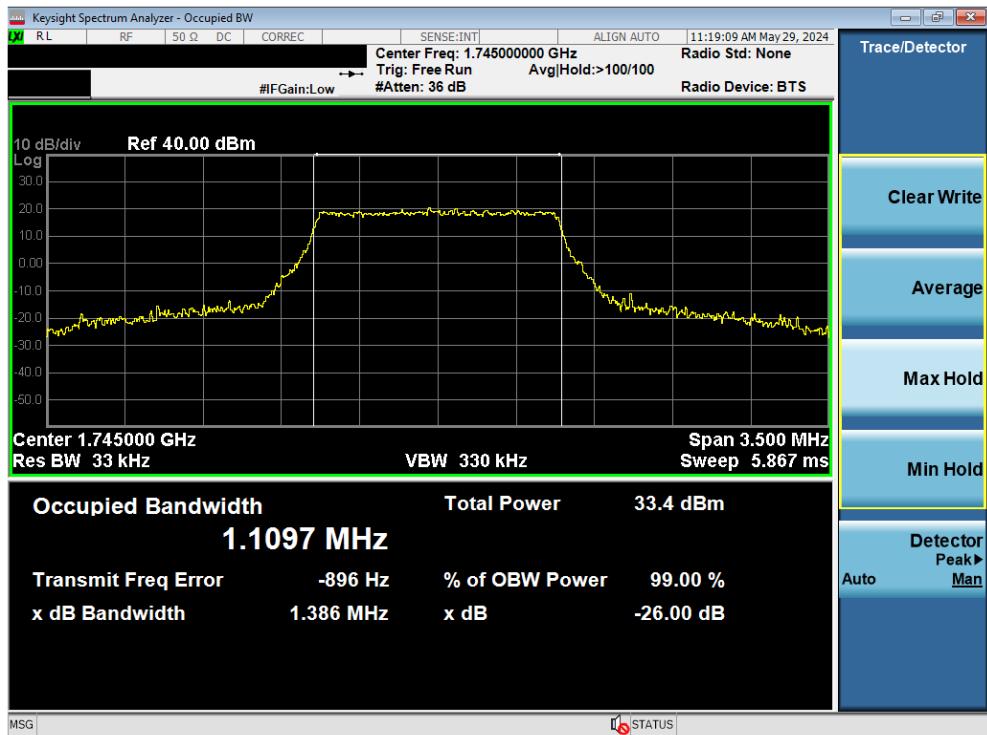
Figure 7-2. FR1 Test Instrument & Measurement Setup

Test Notes

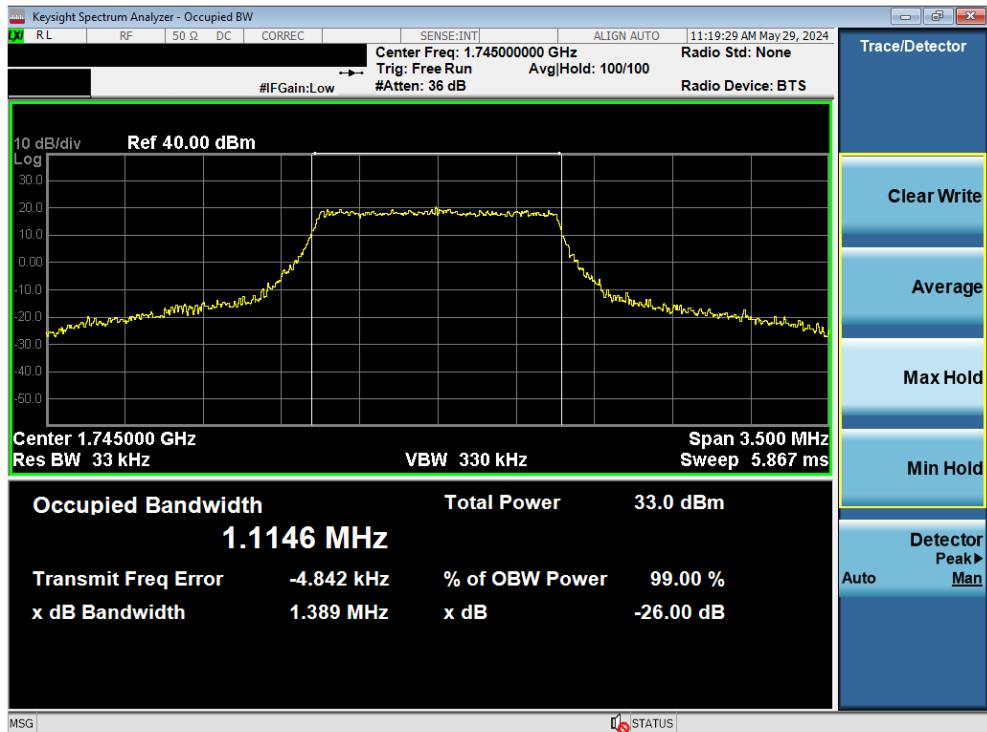
None.

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4

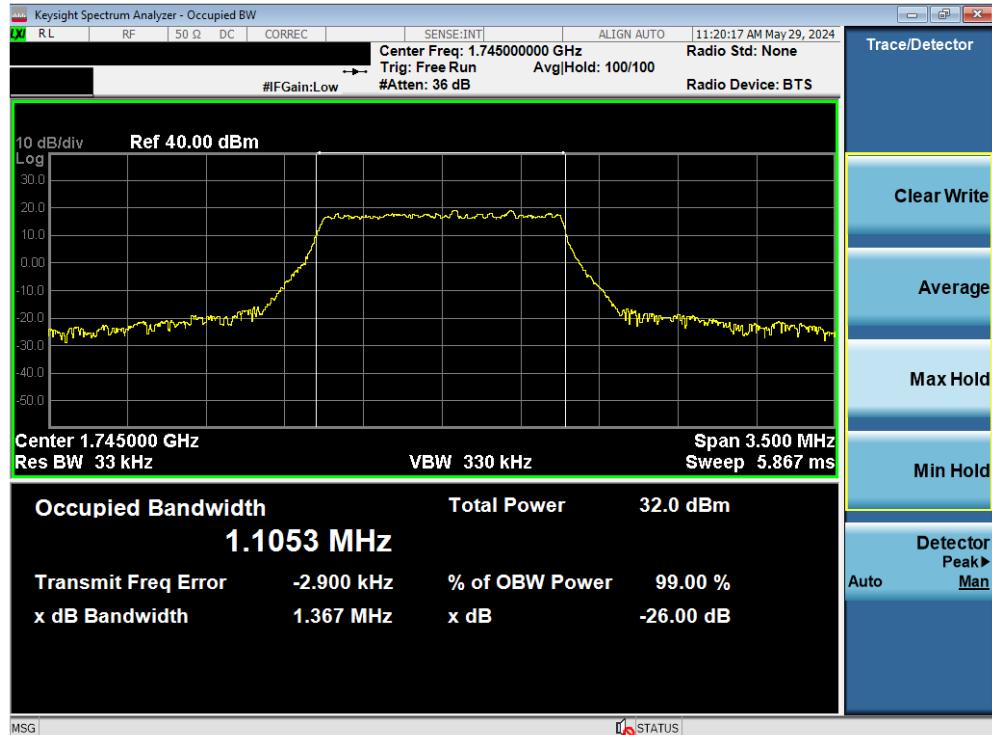


Plot 7-1. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB)

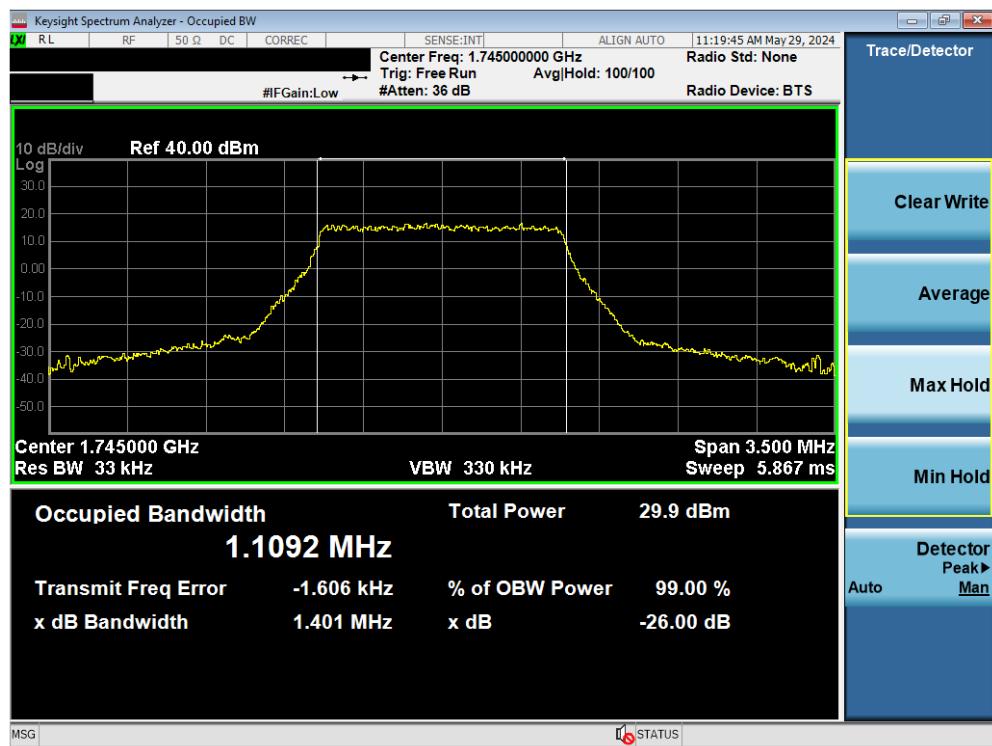


Plot 7-2. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 19 of 351



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

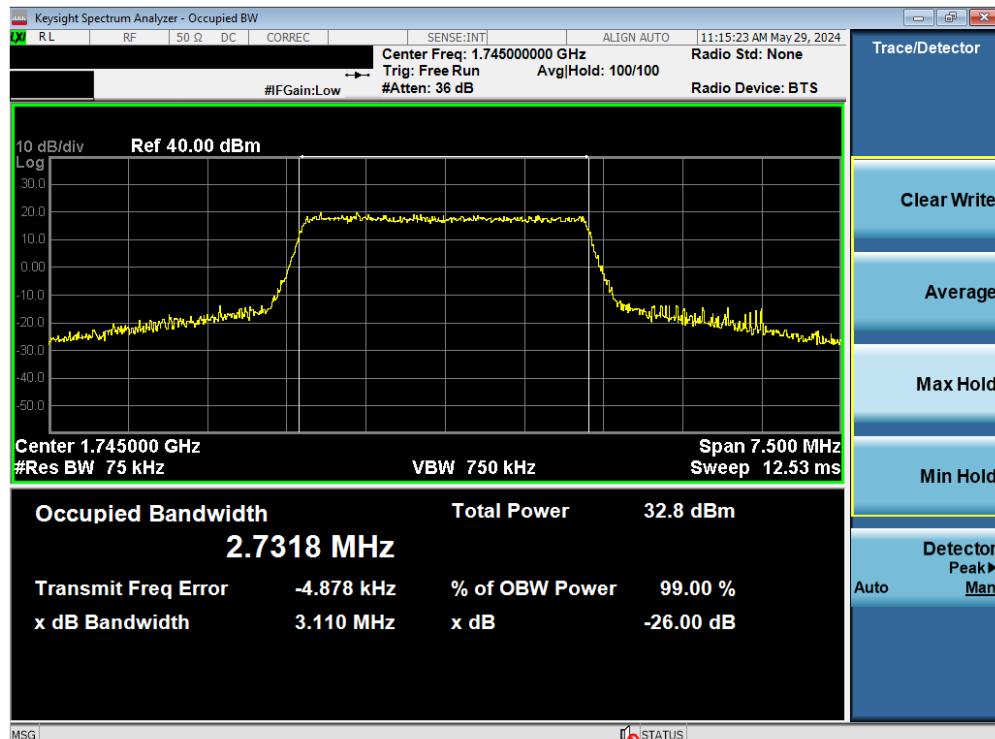


Plot 7-4. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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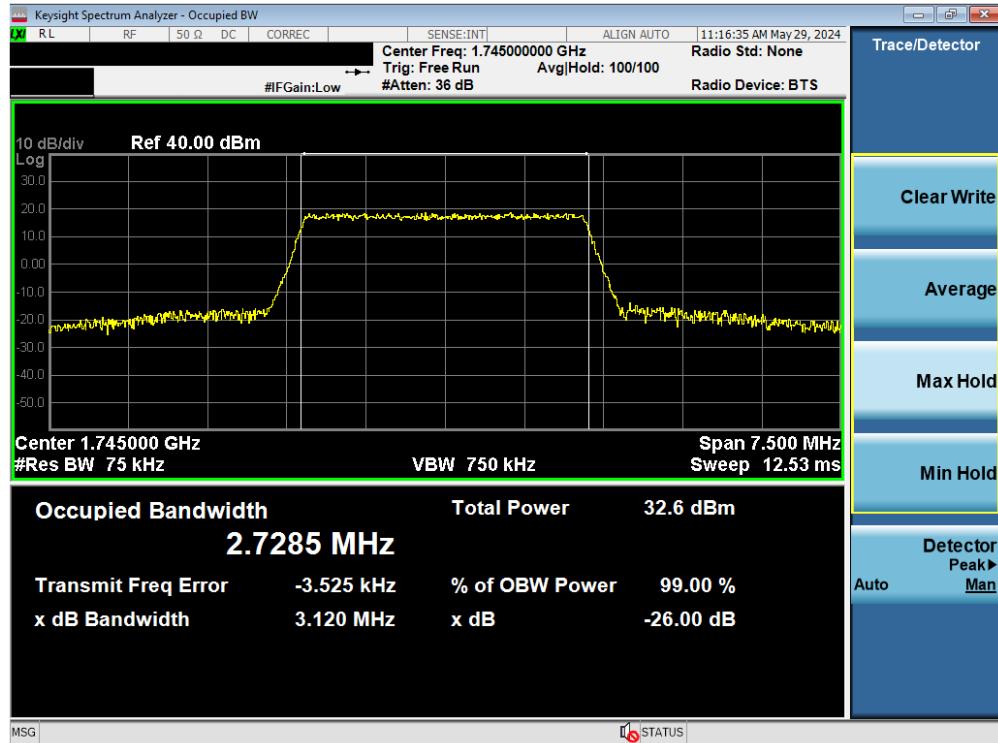


Plot 7-5. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)

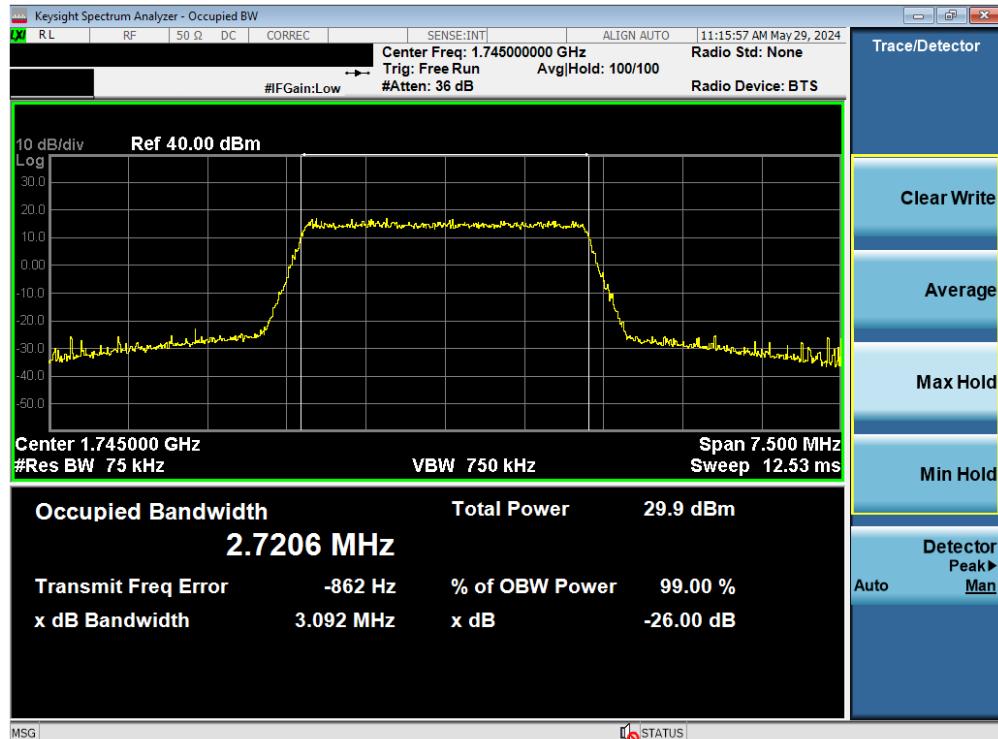


Plot 7-6. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 21 of 351

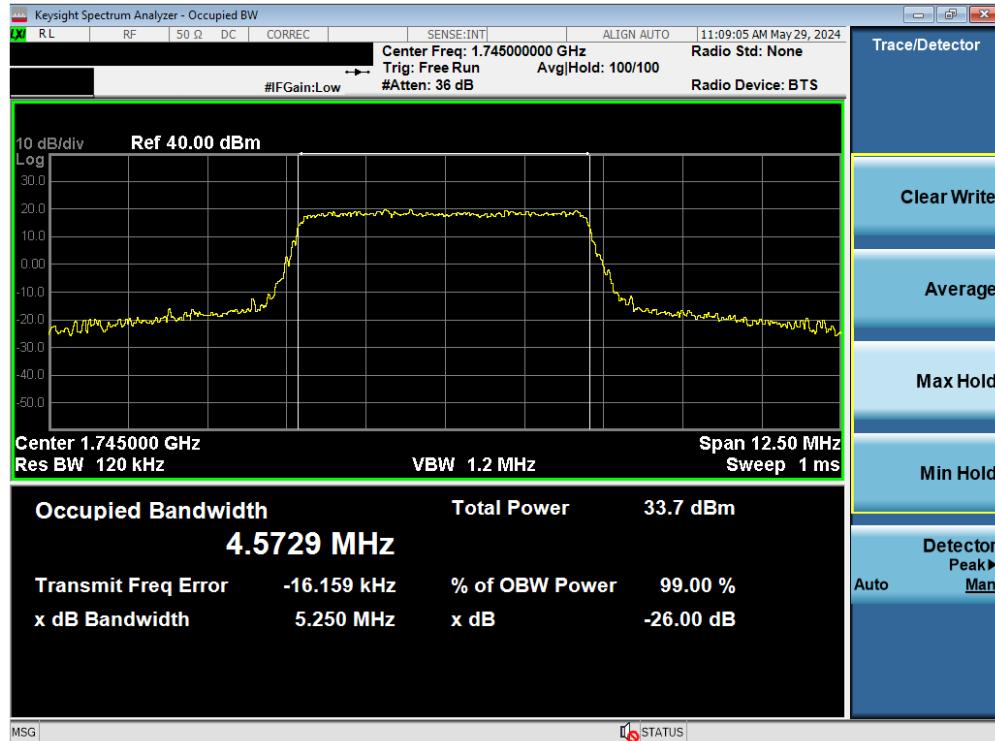


Plot 7-7. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 64-QAM - Full RB)



Plot 7-8. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 22 of 351

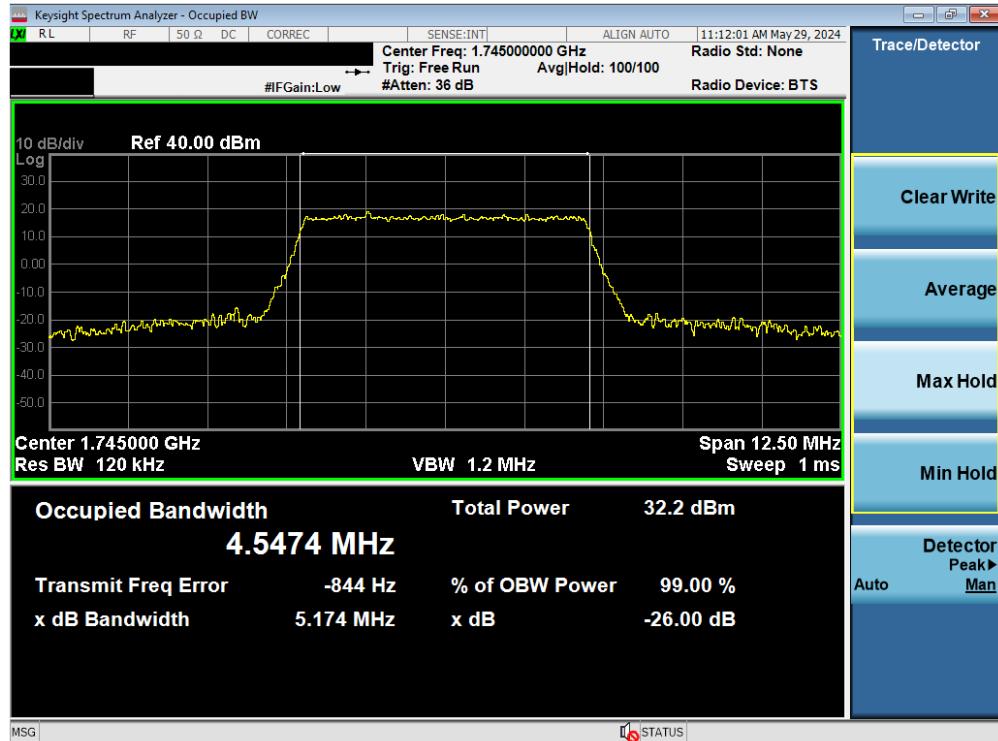


Plot 7-9. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)

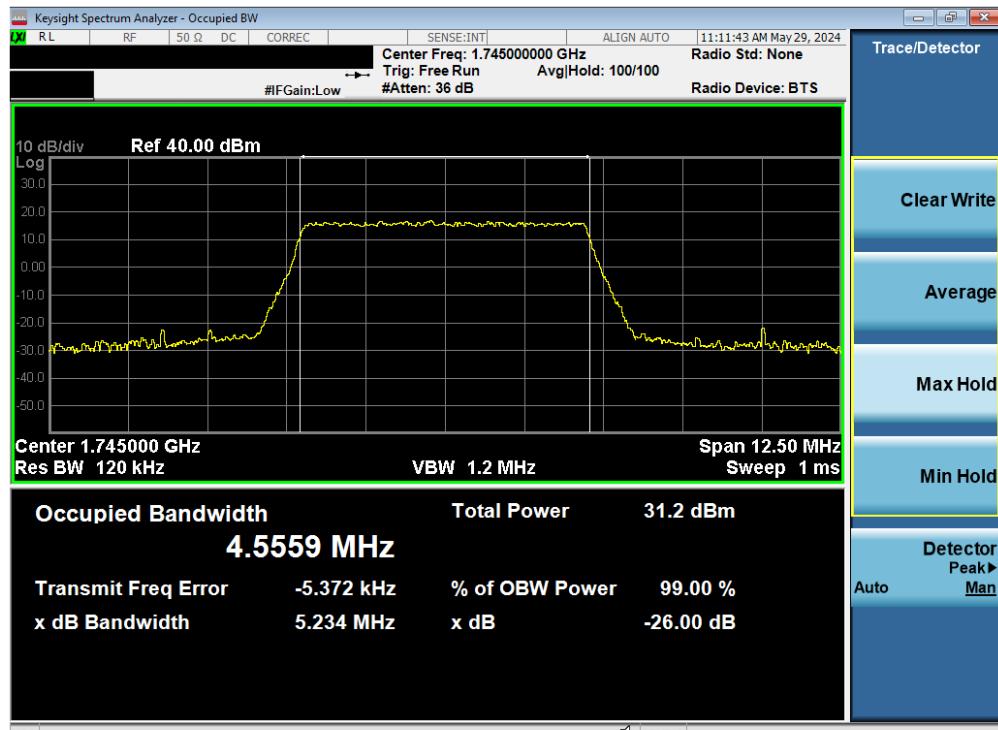


Plot 7-10. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 23 of 351

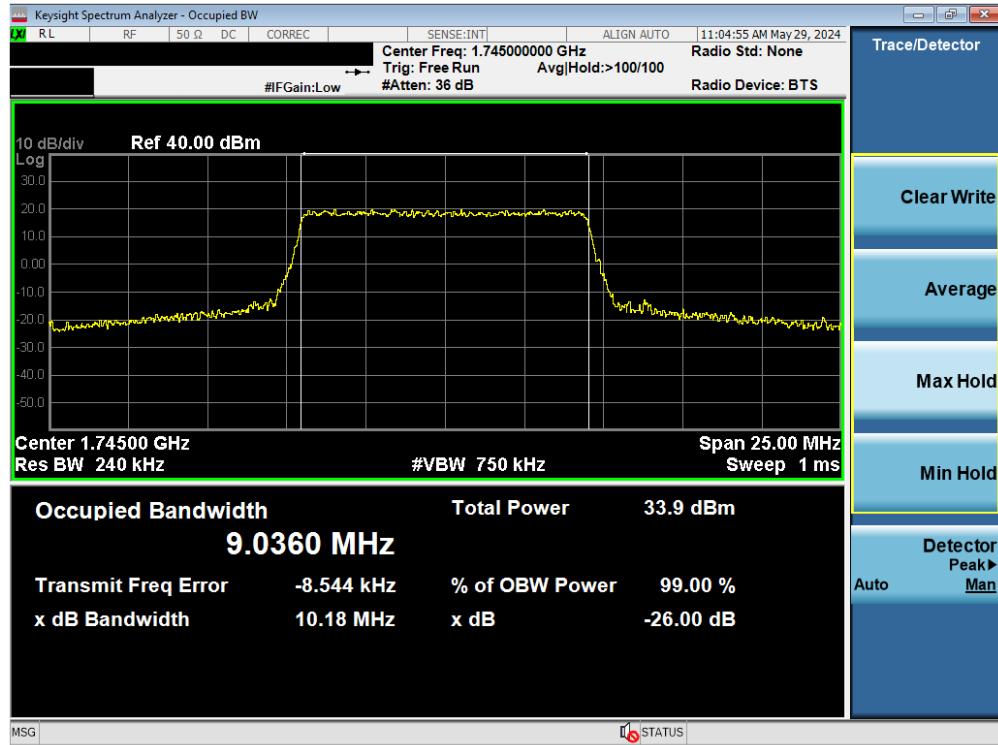


Plot 7-11. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 64-QAM - Full RB)

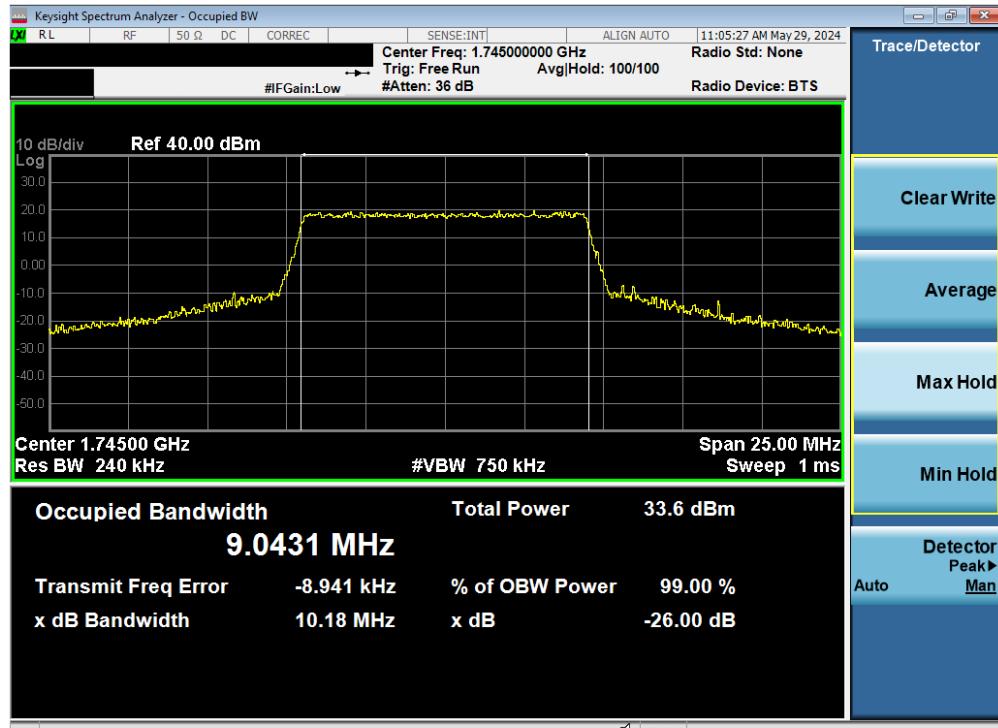


Plot 7-12. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 24 of 351

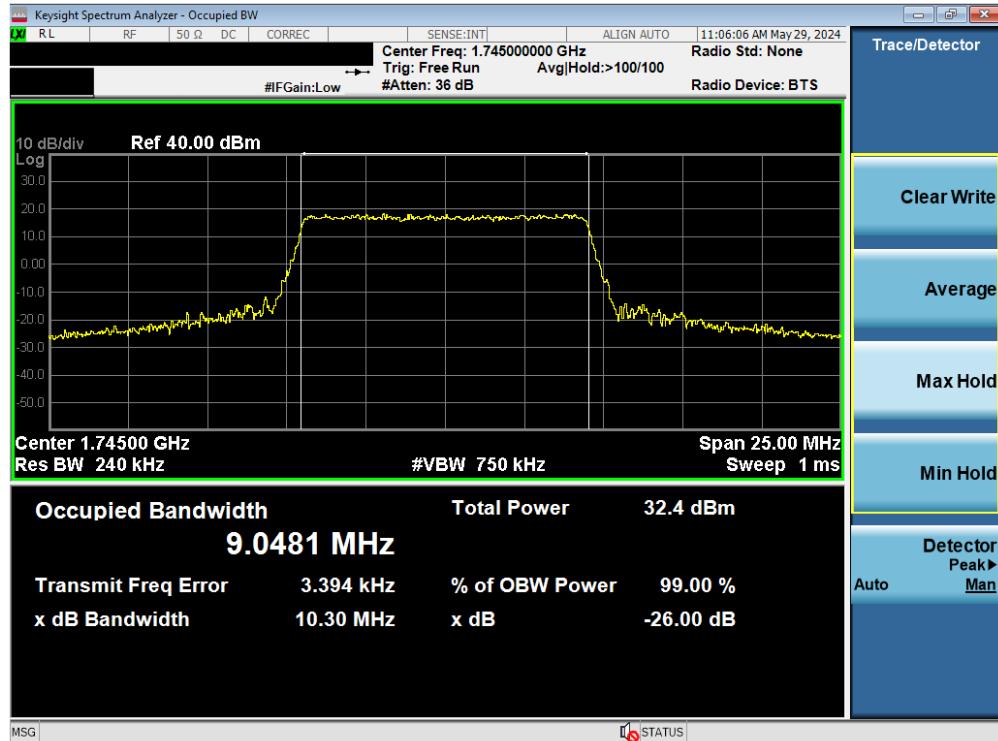


Plot 7-13. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)

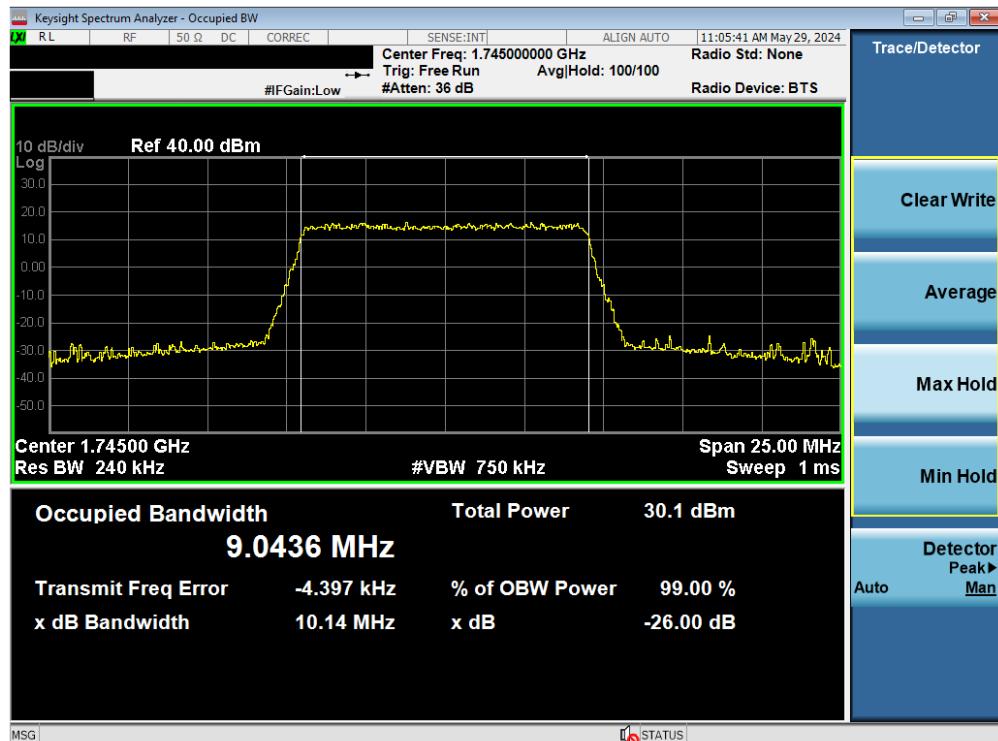


Plot 7-14. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 25 of 351

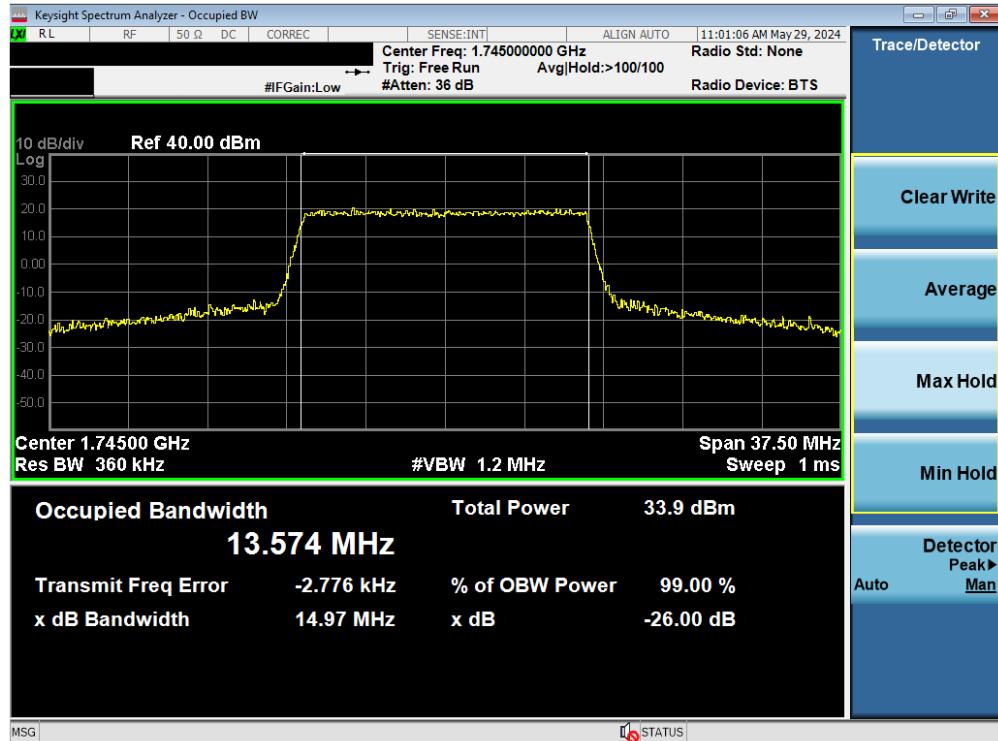


Plot 7-15. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 64-QAM - Full RB)

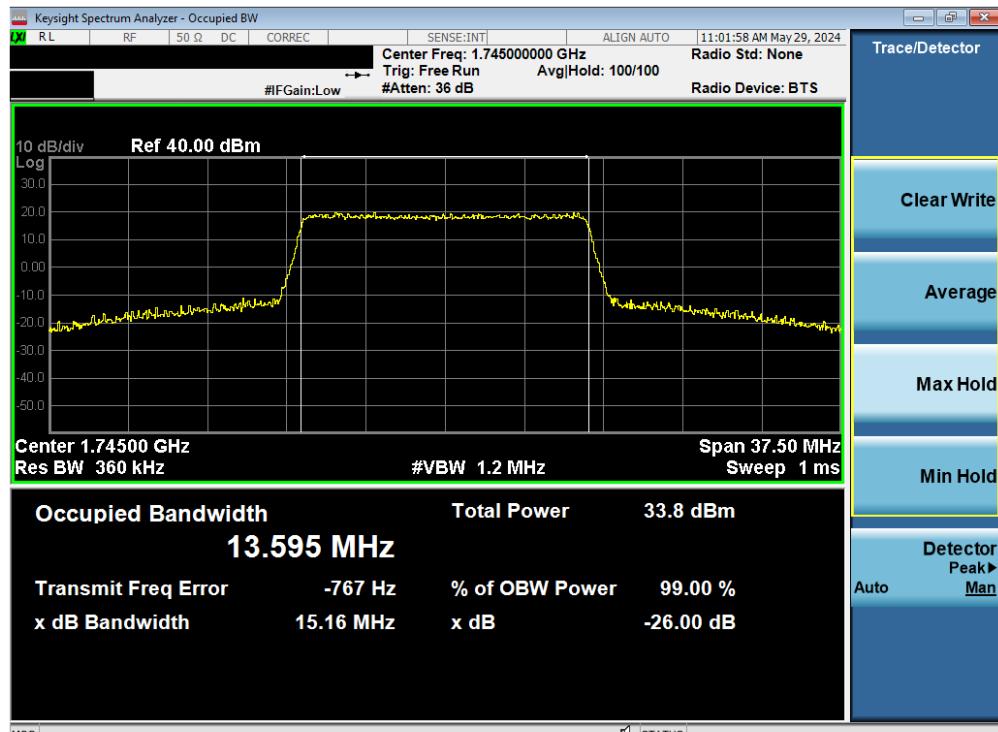


Plot 7-16. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 26 of 351

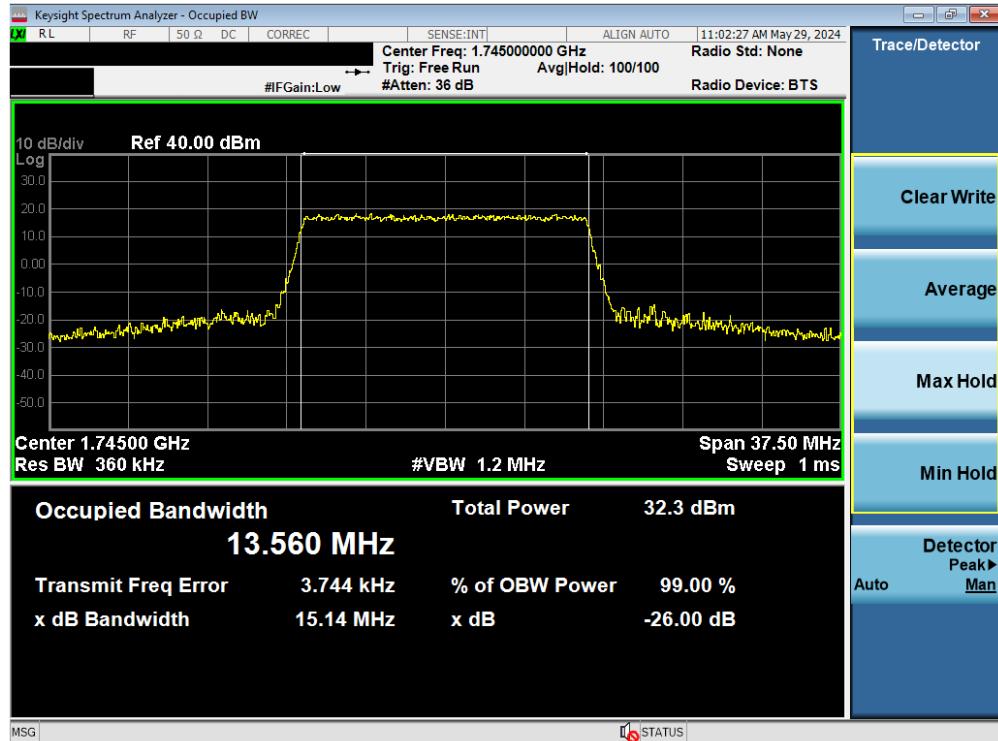


Plot 7-17. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)

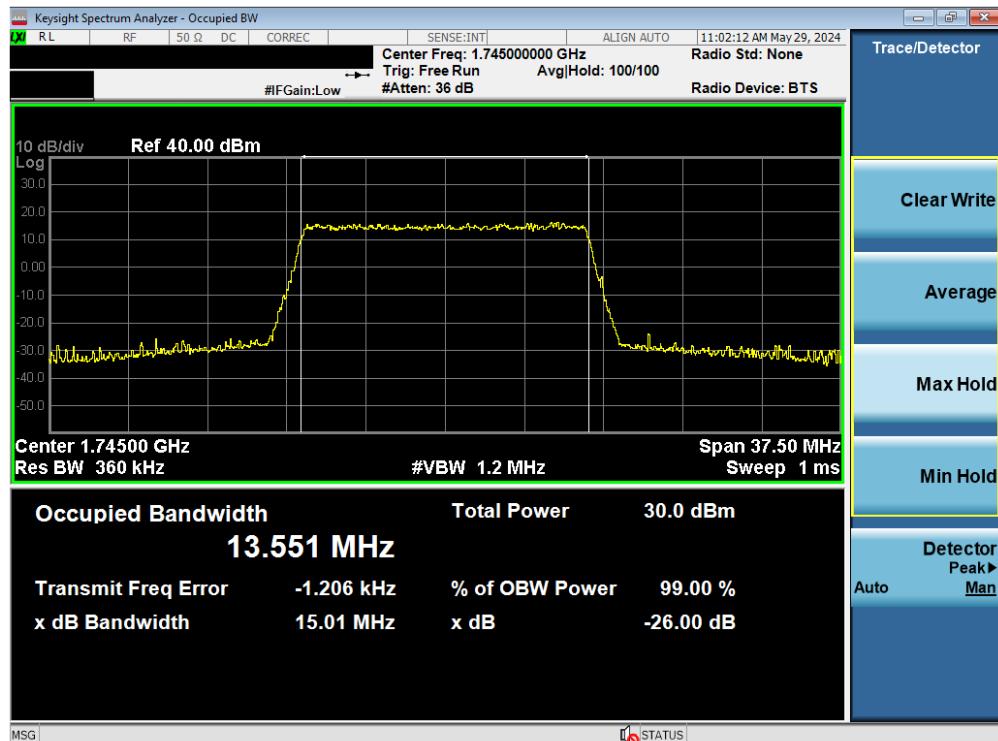


Plot 7-18. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 27 of 351



Plot 7-19. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 64-QAM - Full RB)

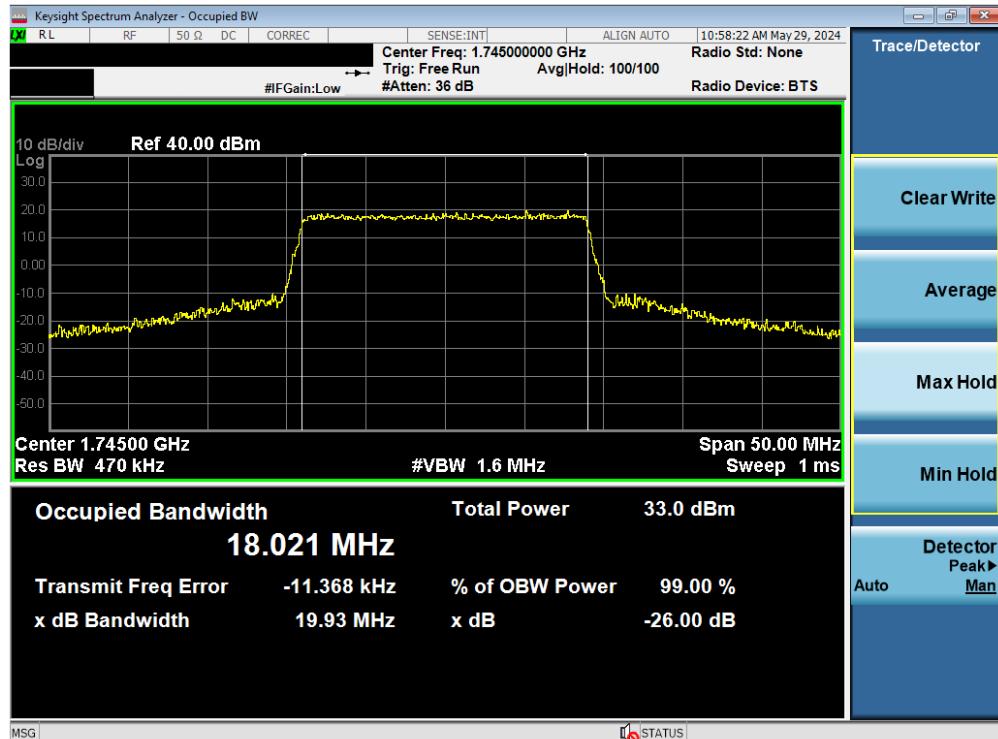


Plot 7-20. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 28 of 351



Plot 7-21. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)

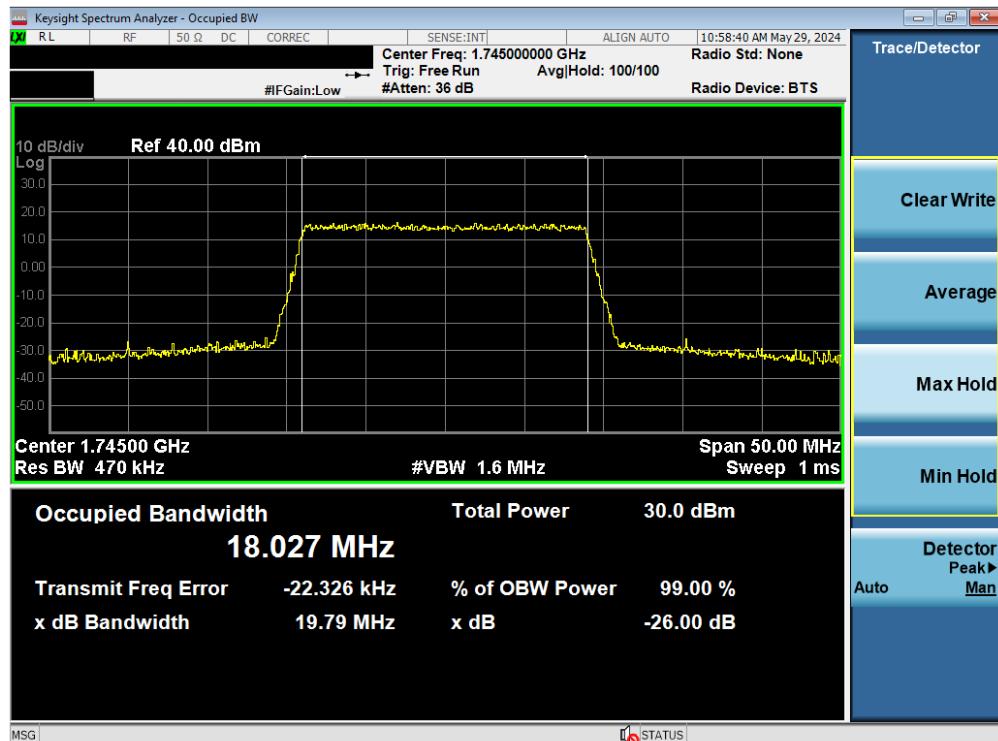


Plot 7-22. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 29 of 351



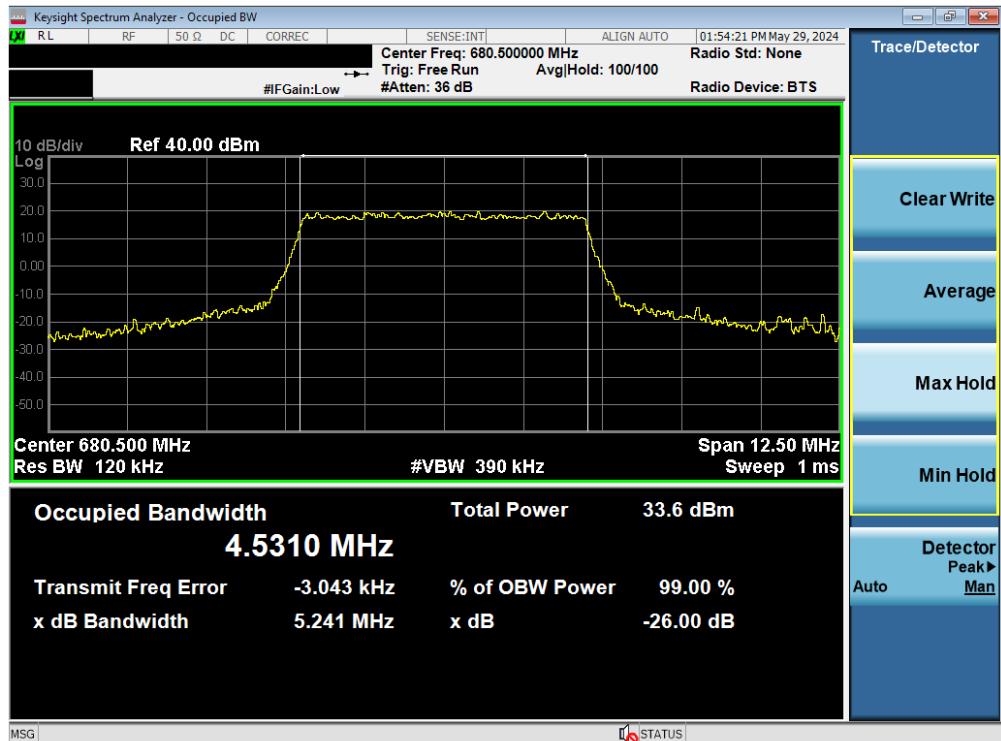
Plot 7-23. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 64-QAM - Full RB)



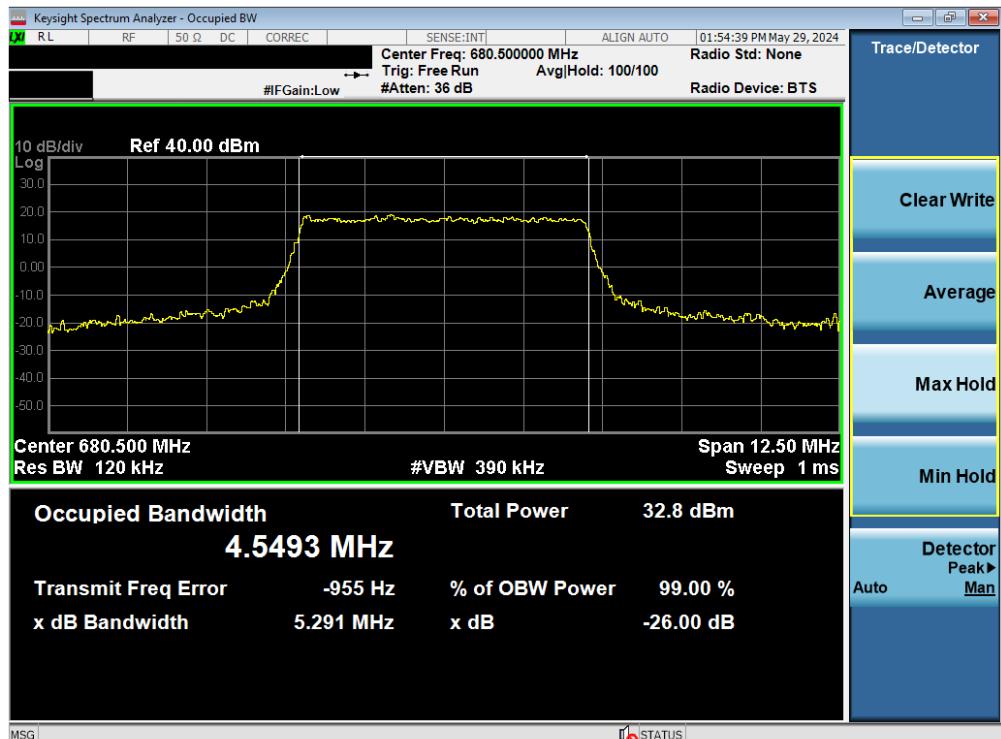
Plot 7-24. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 30 of 351

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)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 31 of 351



Plot 7-27. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 64-QAM - Full RB)

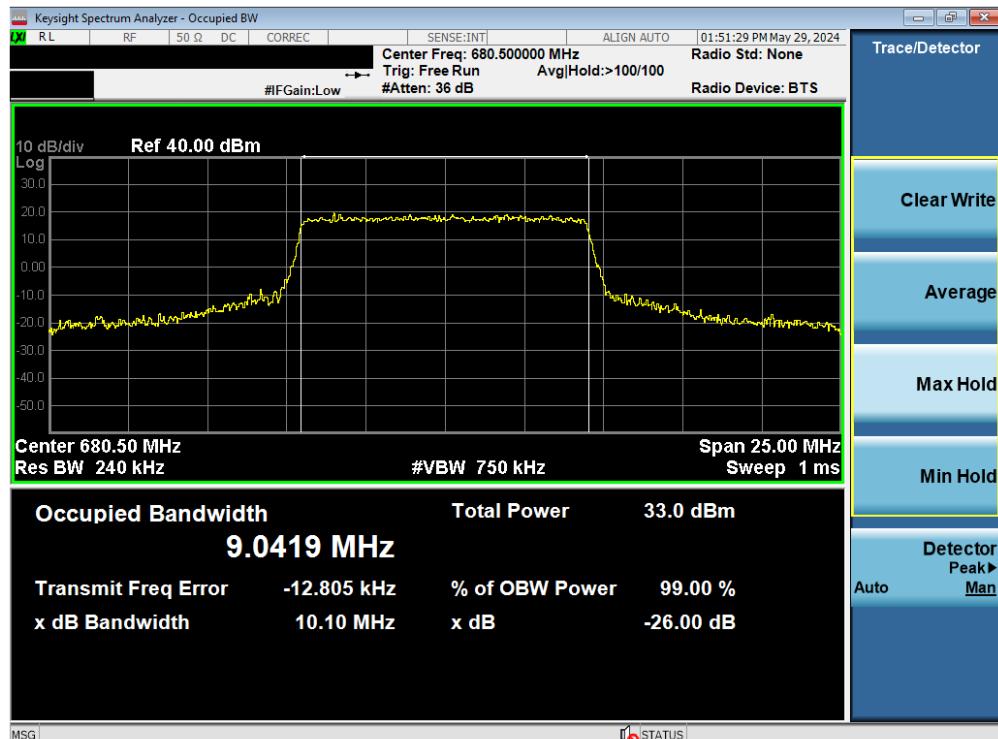


Plot 7-28. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 32 of 351

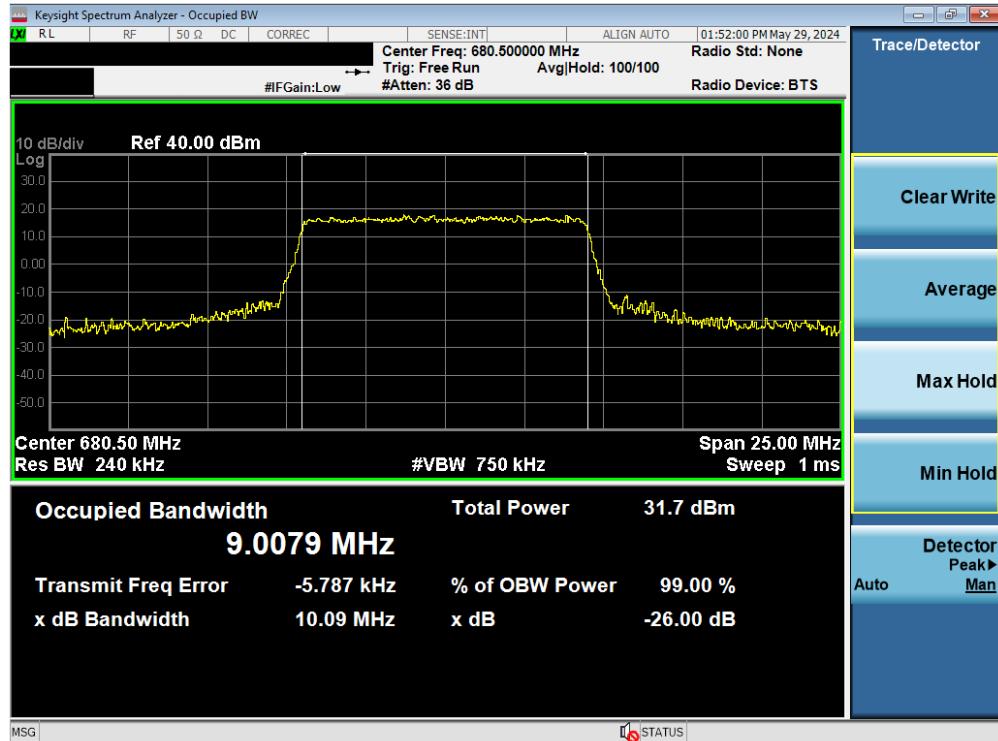


Plot 7-29. Occupied Bandwidth Plot (LTE Band 71 - 10MHz QPSK - Full RB)

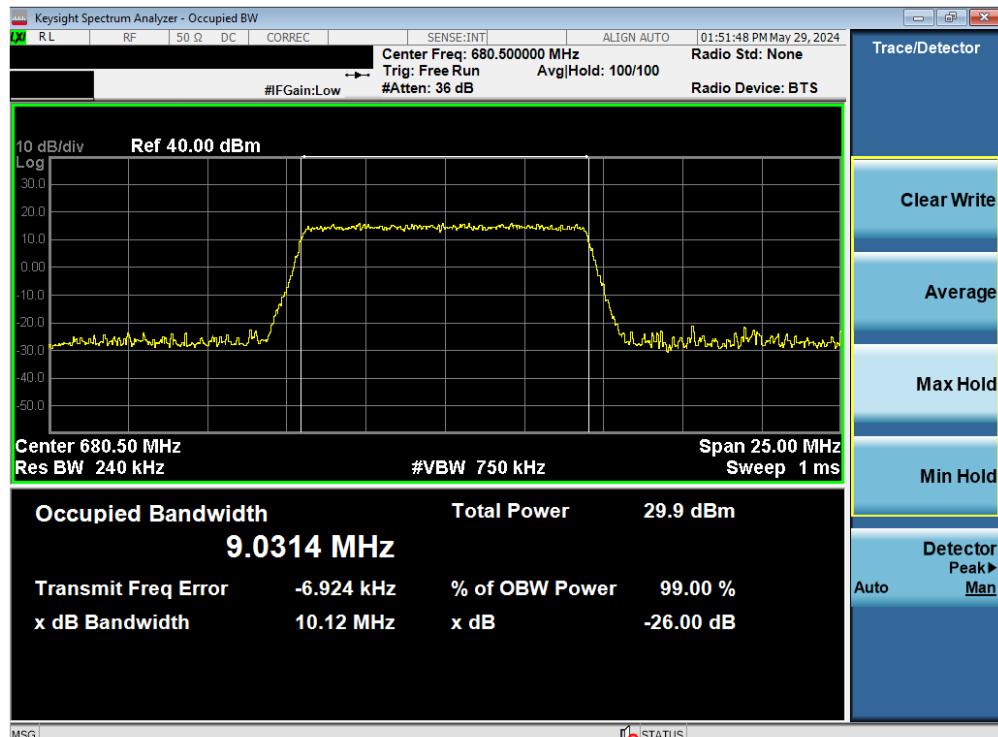


Plot 7-30. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 33 of 351

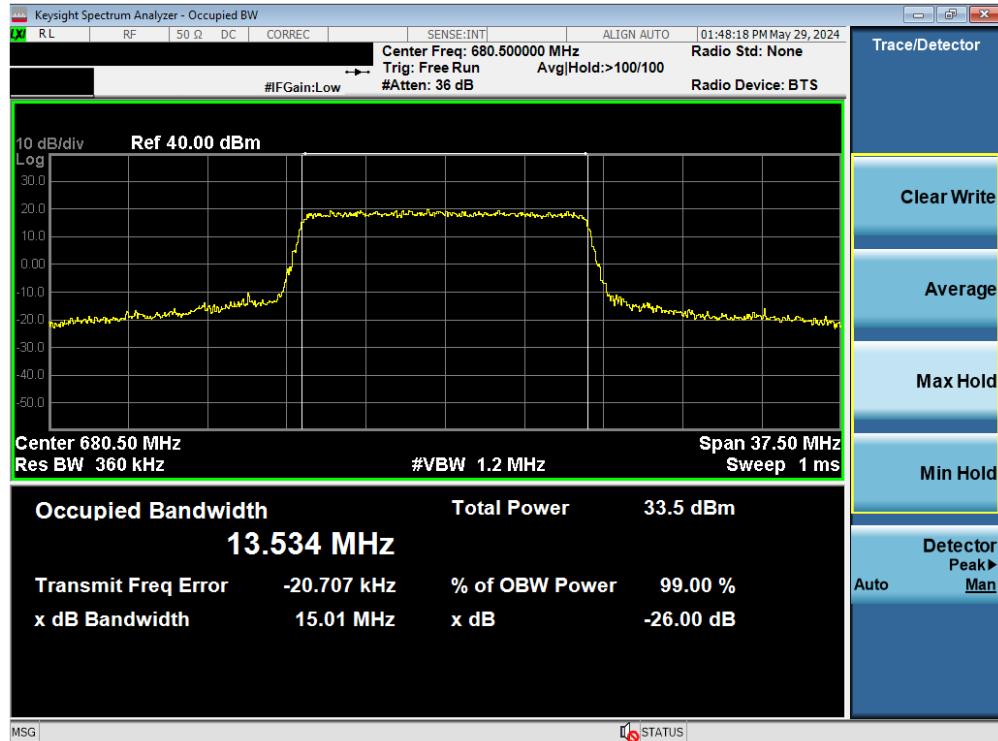


Plot 7-31. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 64-QAM - Full RB)



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

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 34 of 351



Plot 7-33. Occupied Bandwidth Plot (LTE Band 71 - 15MHz QPSK - Full RB)

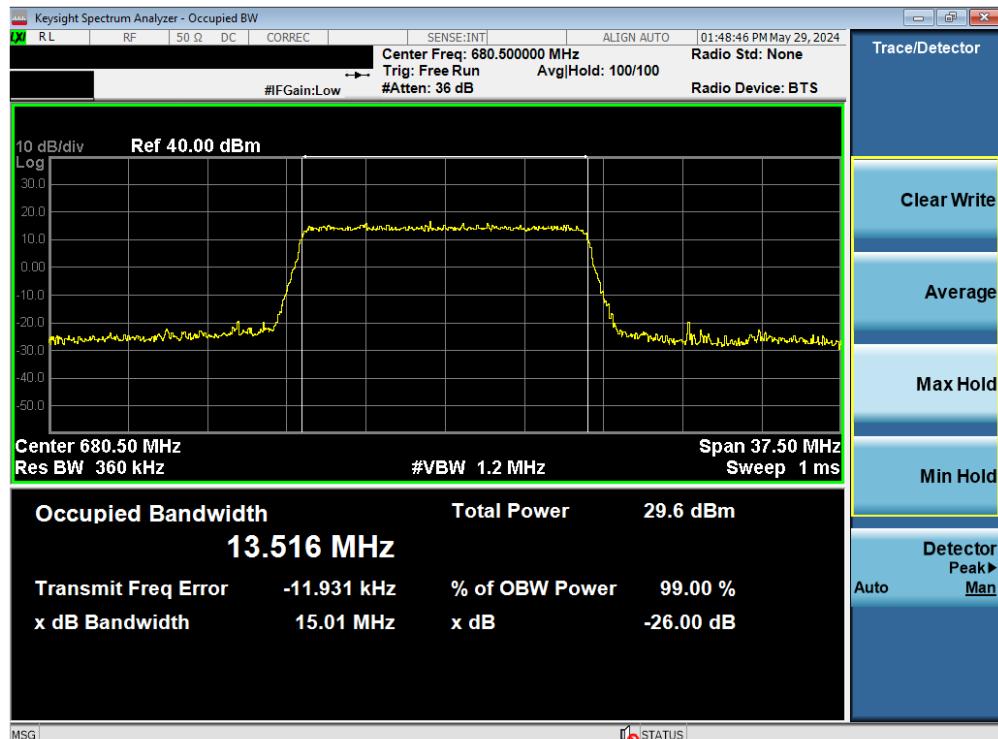


Plot 7-34. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 35 of 351



Plot 7-35. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 64-QAM - Full RB)

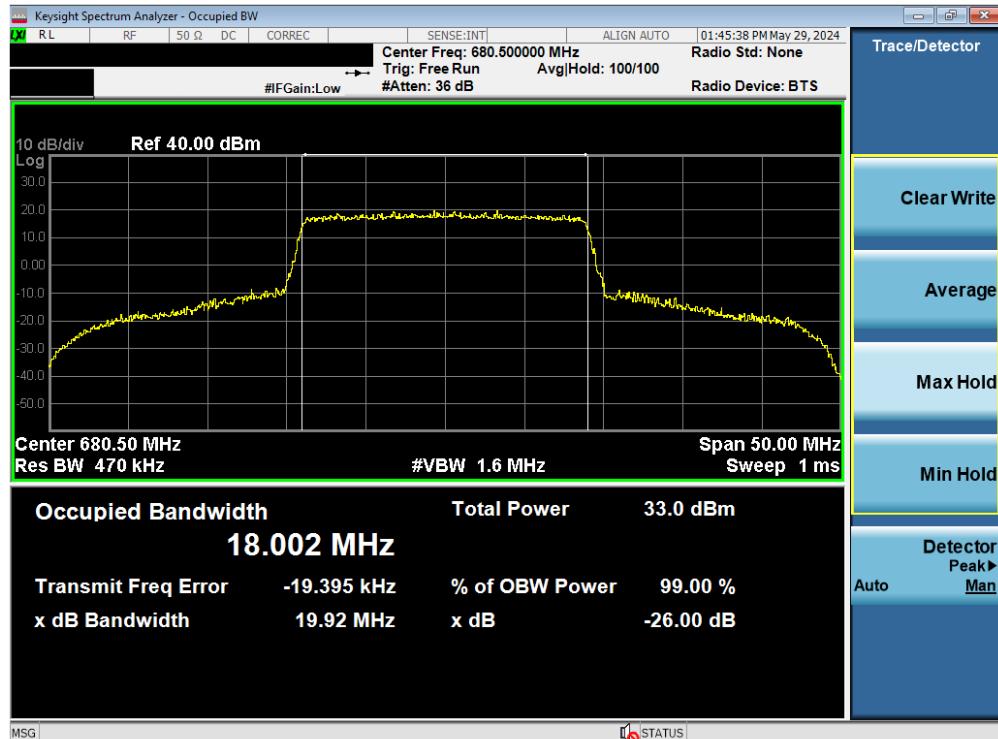


Plot 7-36. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 36 of 351



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: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 37 of 351



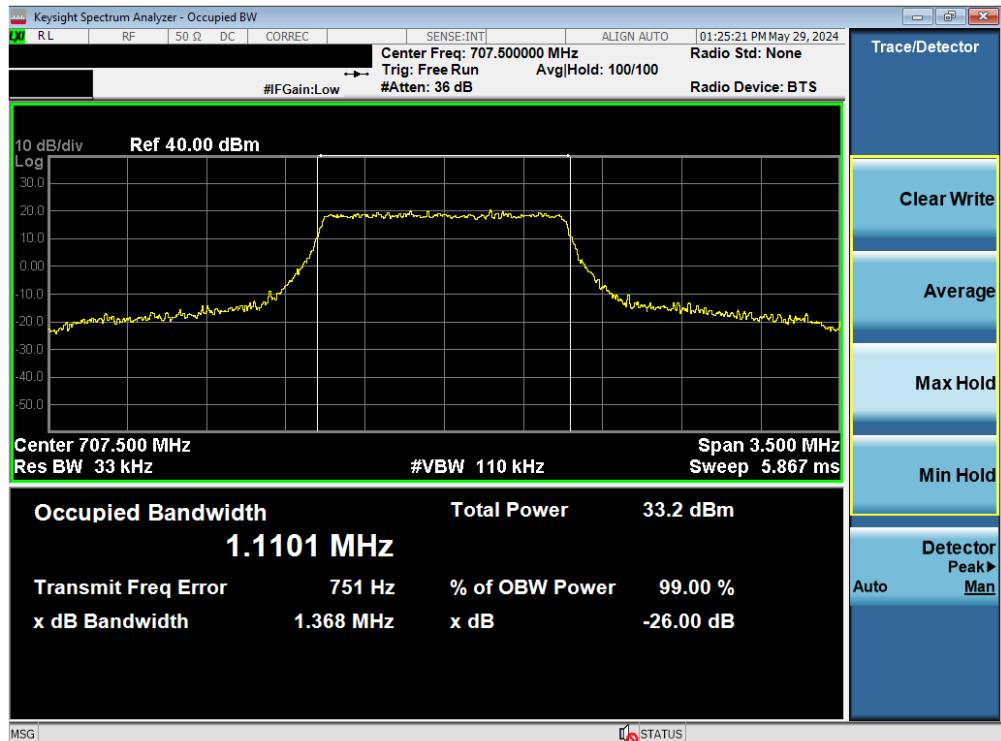
Plot 7-39. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 64-QAM - Full RB)



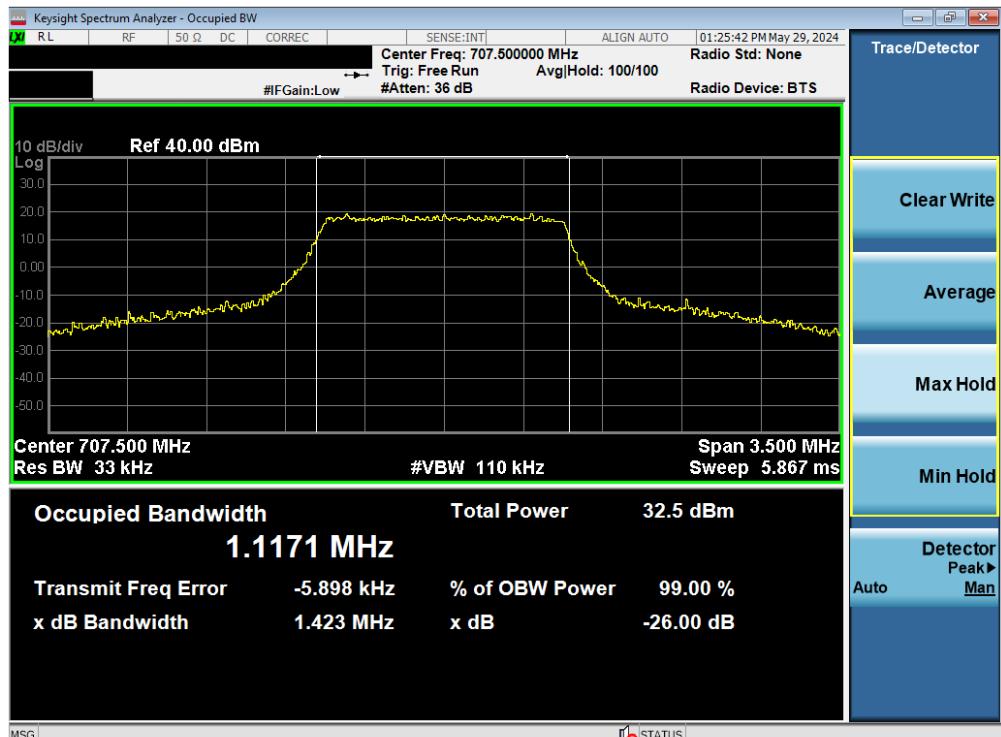
Plot 7-40. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 38 of 351

LTE Band 12/17

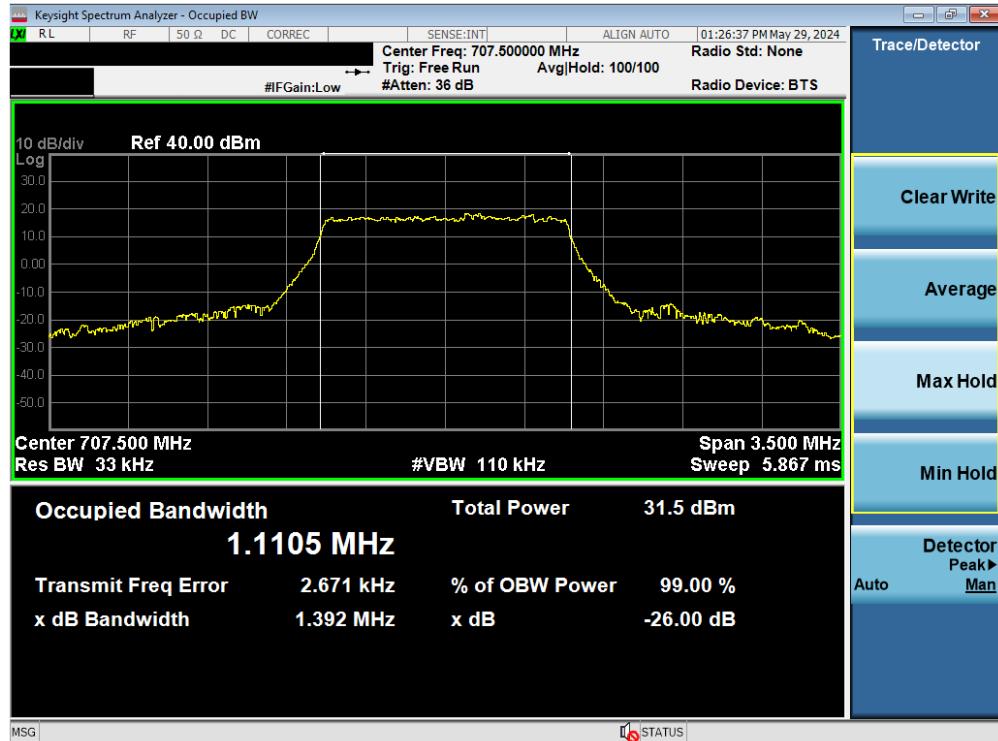


Plot 7-41. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz QPSK - Full RB)

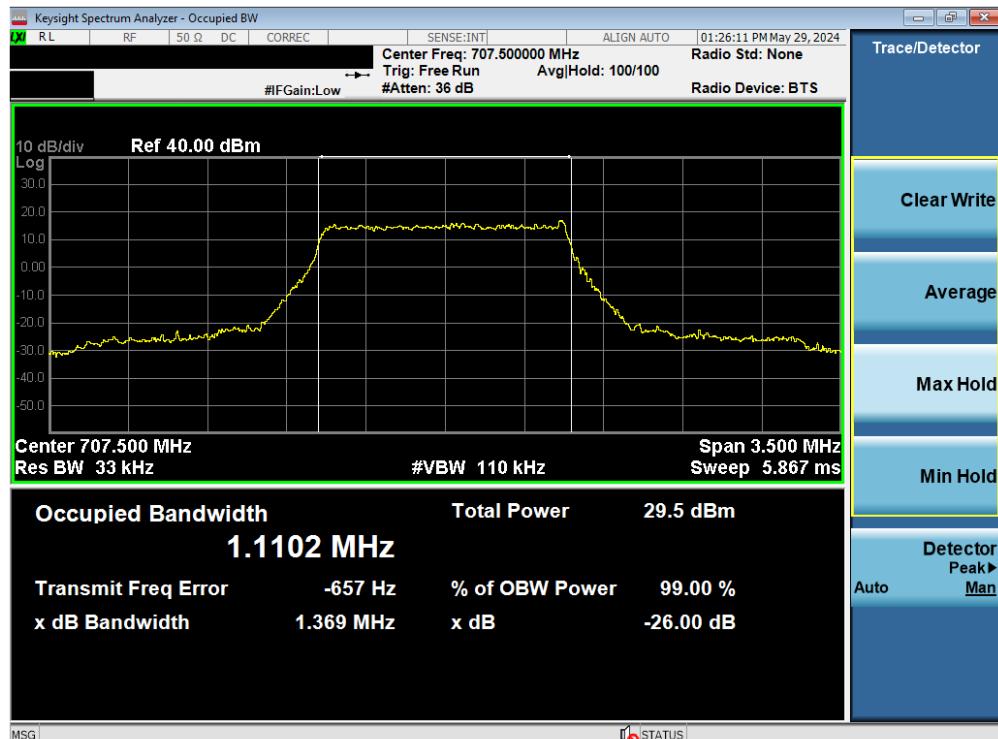


Plot 7-42. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 39 of 351

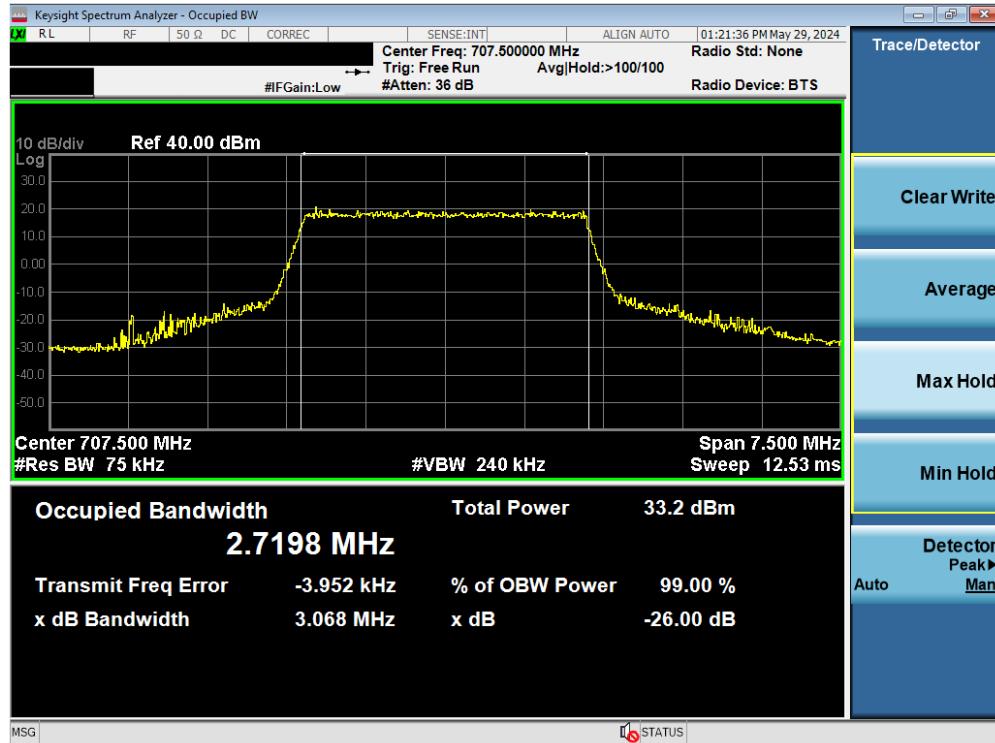


Plot 7-43. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 64-QAM - Full RB)



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

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 40 of 351

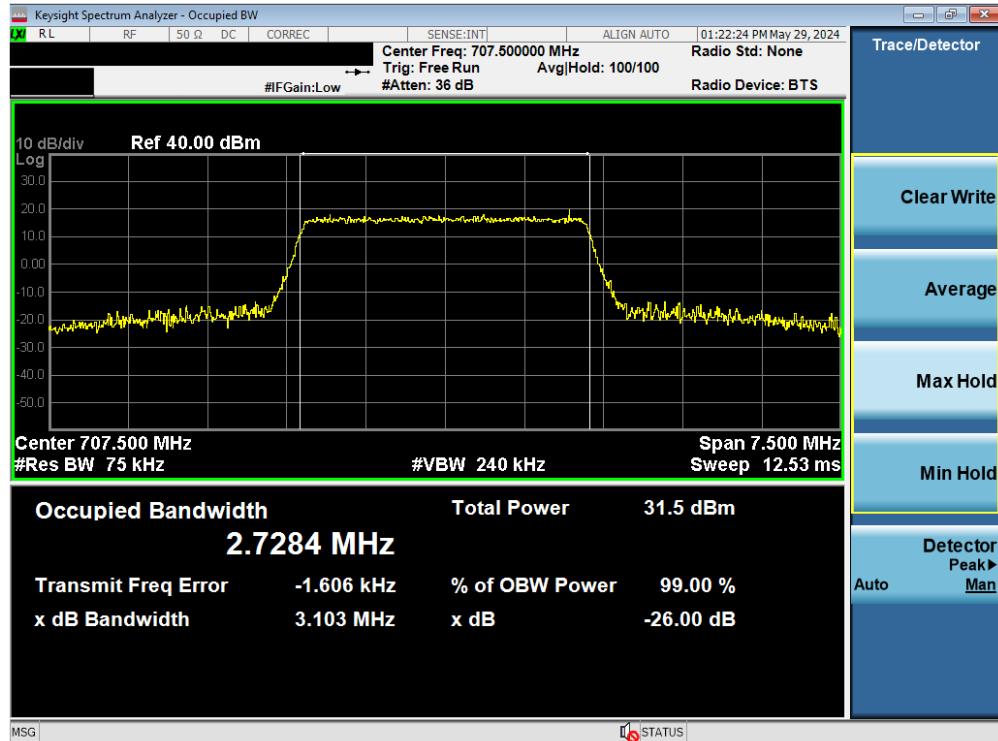


Plot 7-45. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB)

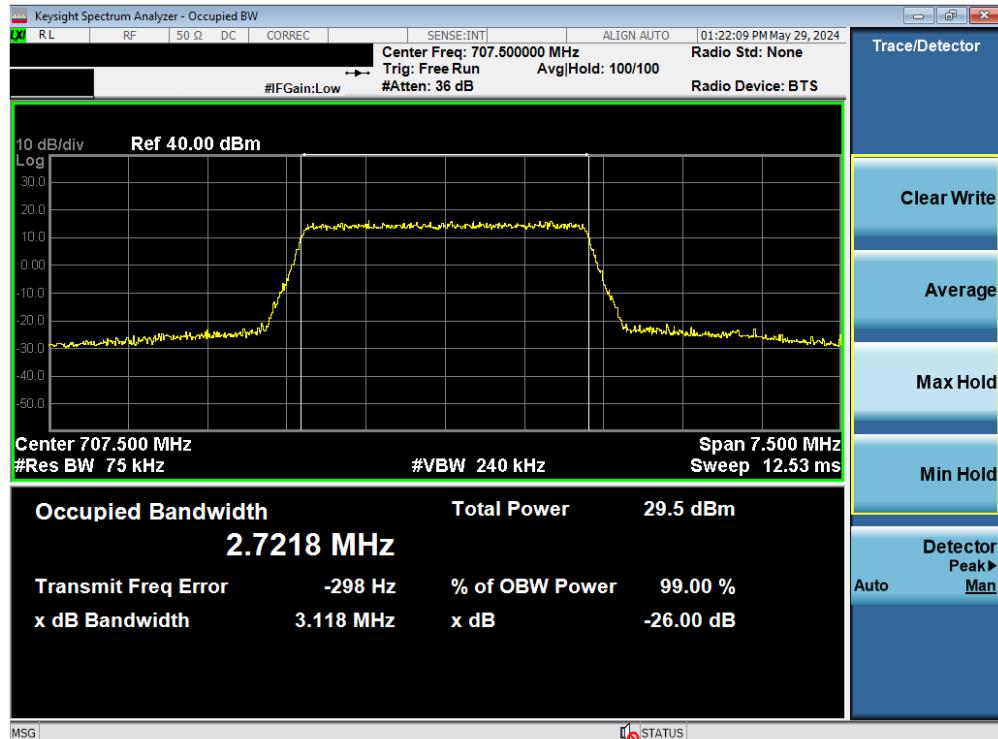


Plot 7-46. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 41 of 351

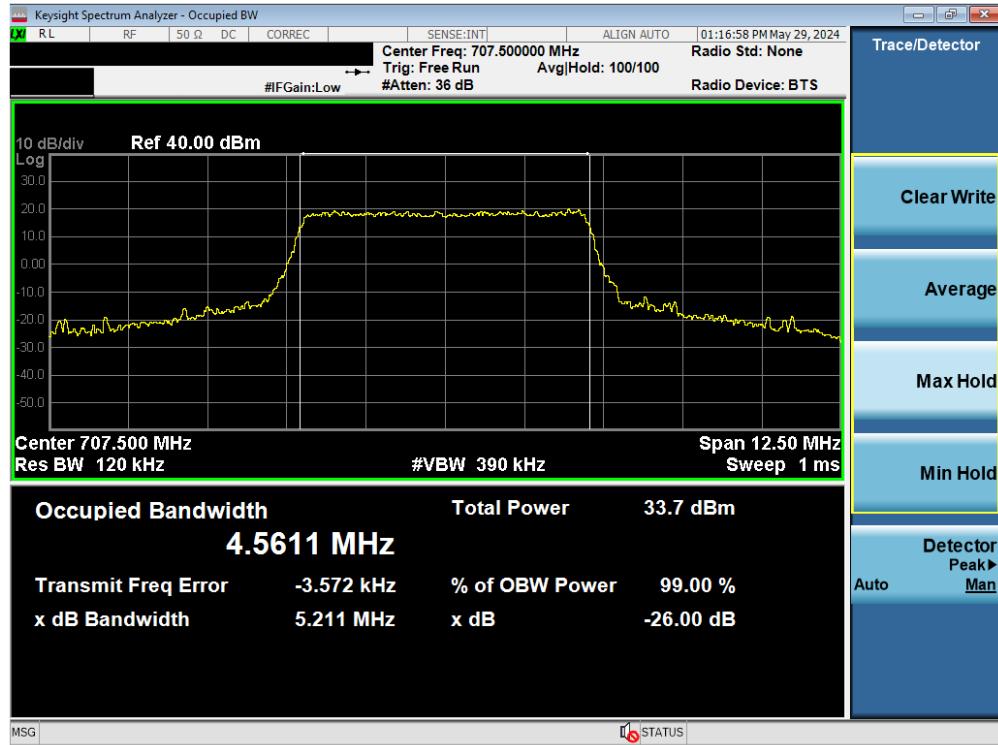


Plot 7-47. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 64-QAM - Full RB)

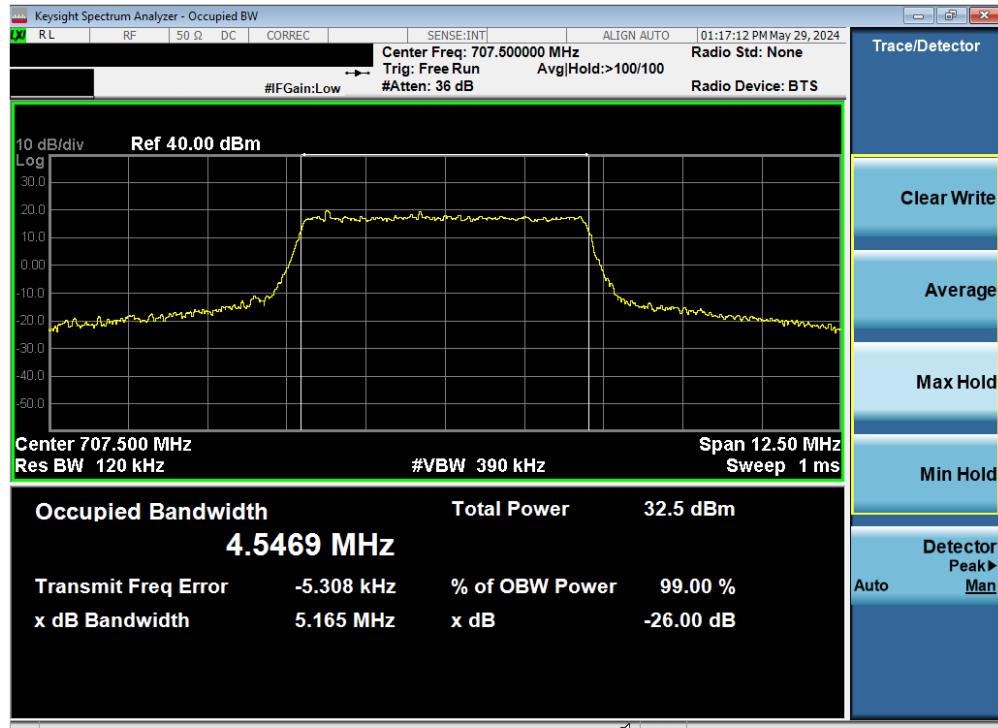


Plot 7-48. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 256-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 42 of 351



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: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 43 of 351



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: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 44 of 351

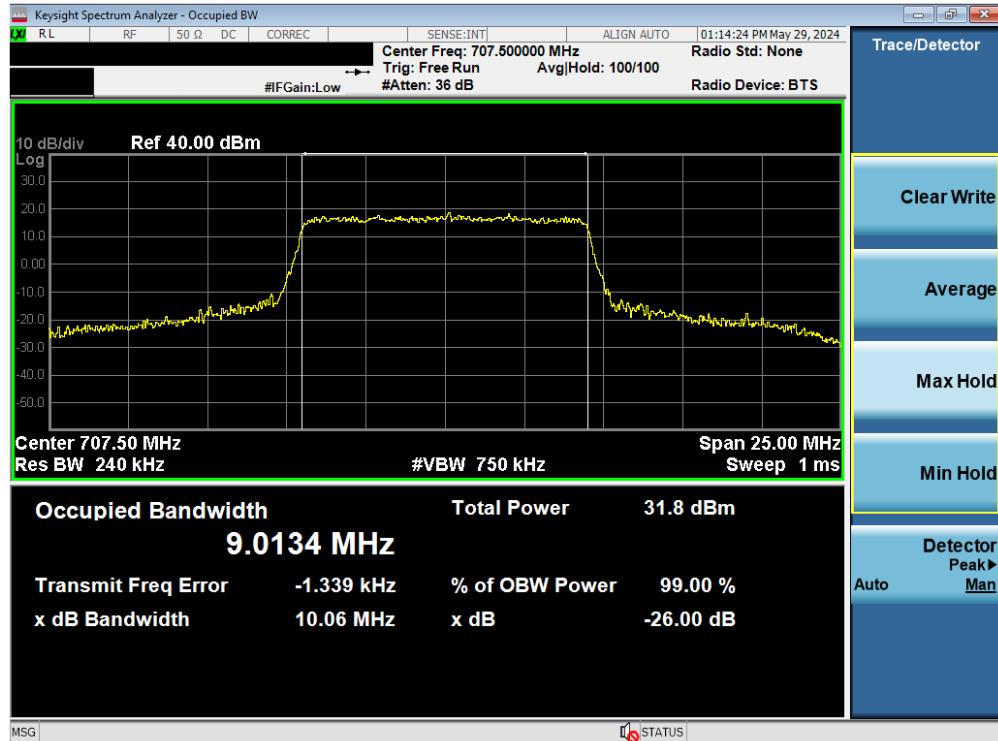


Plot 7-53. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB)

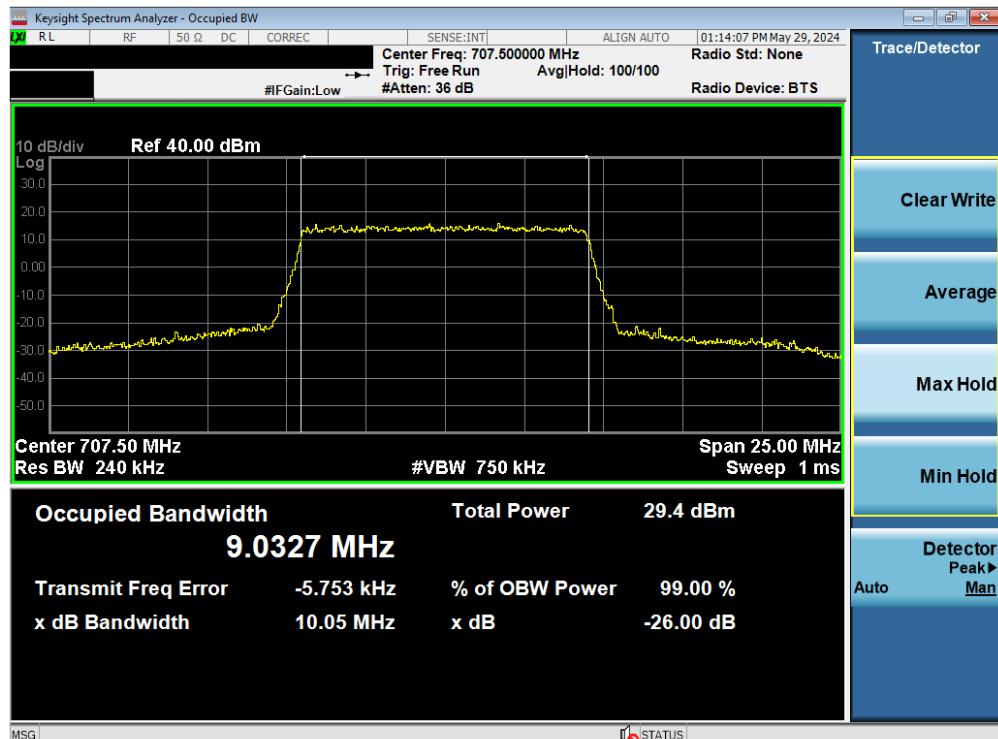


Plot 7-54. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 45 of 351



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: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 46 of 351

LTE Band 13



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

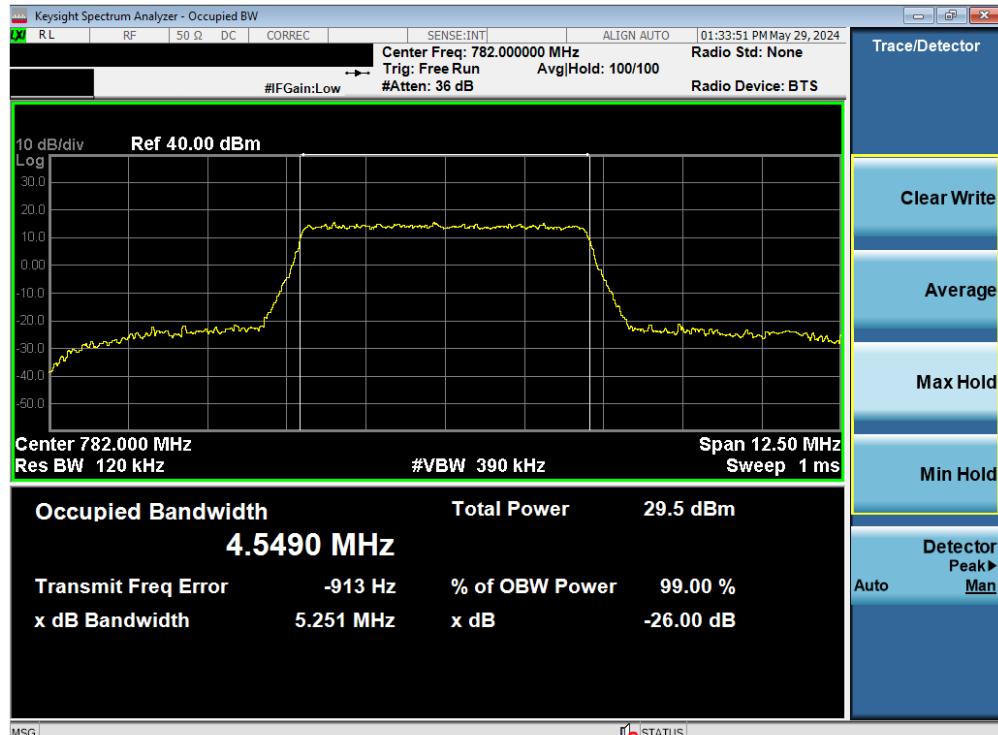


Plot 7-58. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 47 of 351

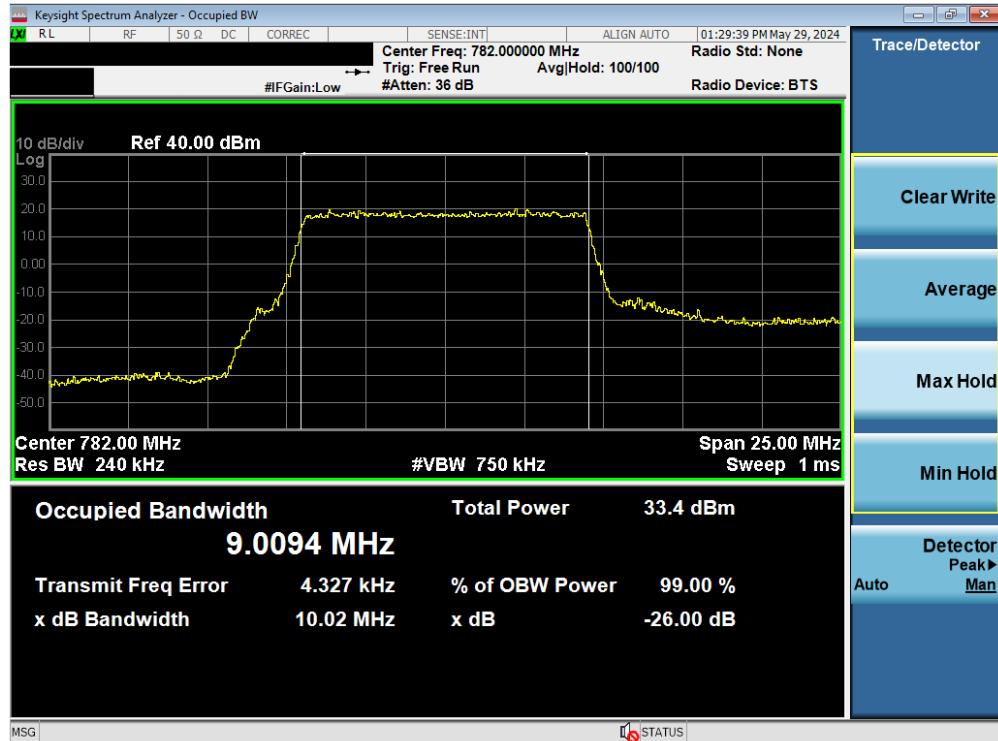


Plot 7-59. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 64-QAM - Full RB)



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

FCC ID: BCGA2995	 element	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: BCGA2995	 element	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: BCGA2995	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

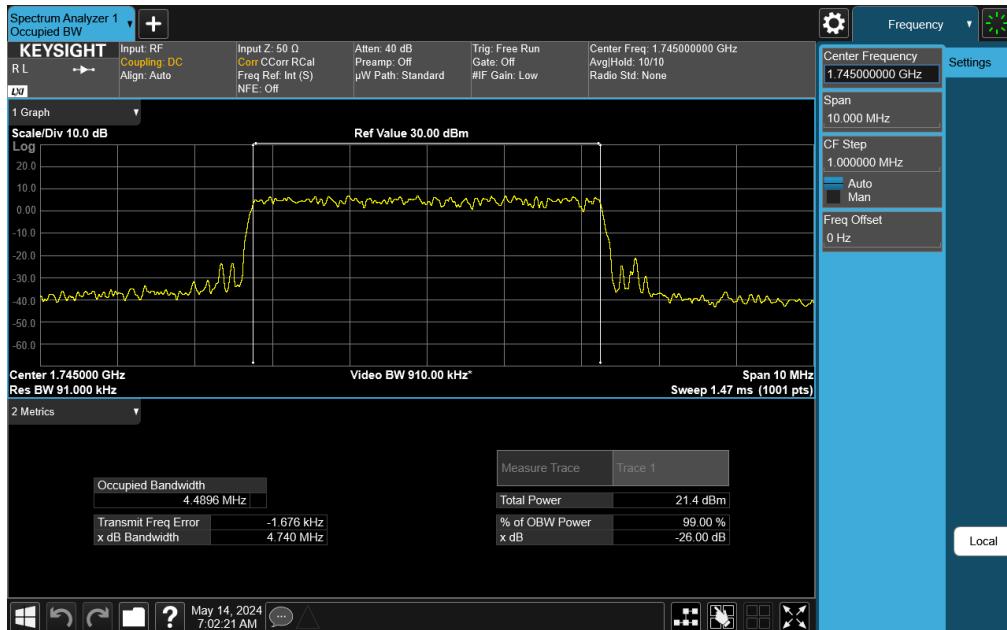


Plot 7-65. Occupied Bandwidth Plot (NR Band n66 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)



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

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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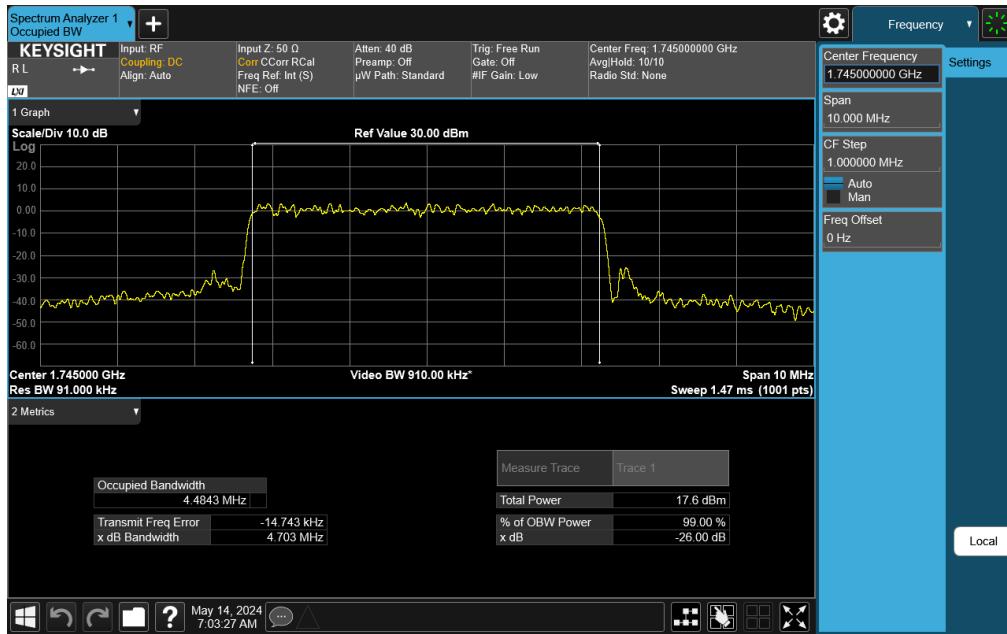


Plot 7-67. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 16QAM - Full RB)



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

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 52 of 351	

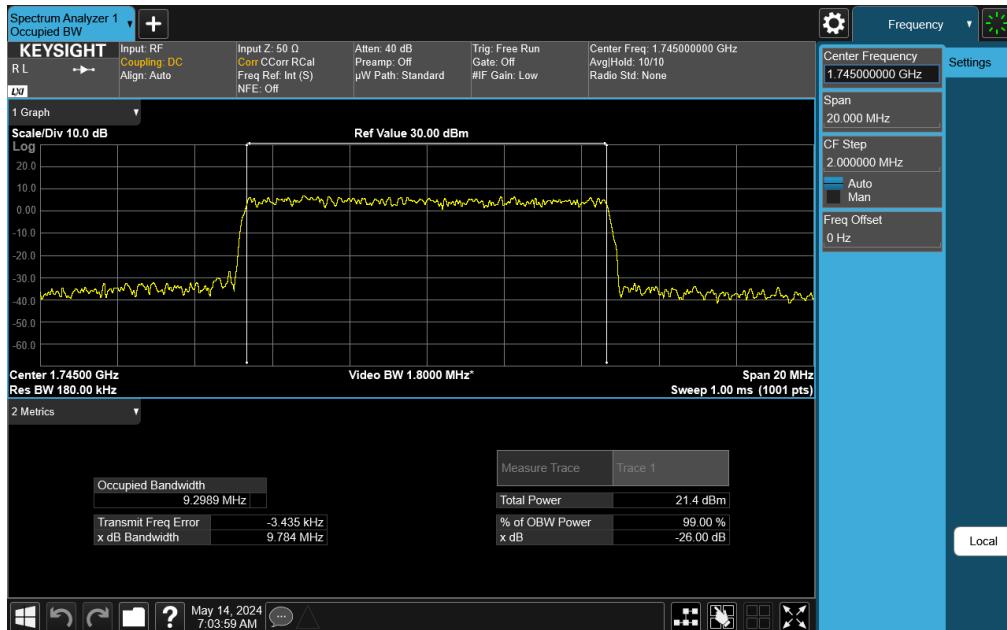


Plot 7-69. Occupied Bandwidth Plot (NR Band n66 - 5MHz CP-OFDM 256QAM - Full RB)



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

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 53 of 351



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: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 54 of 351



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: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 55 of 351

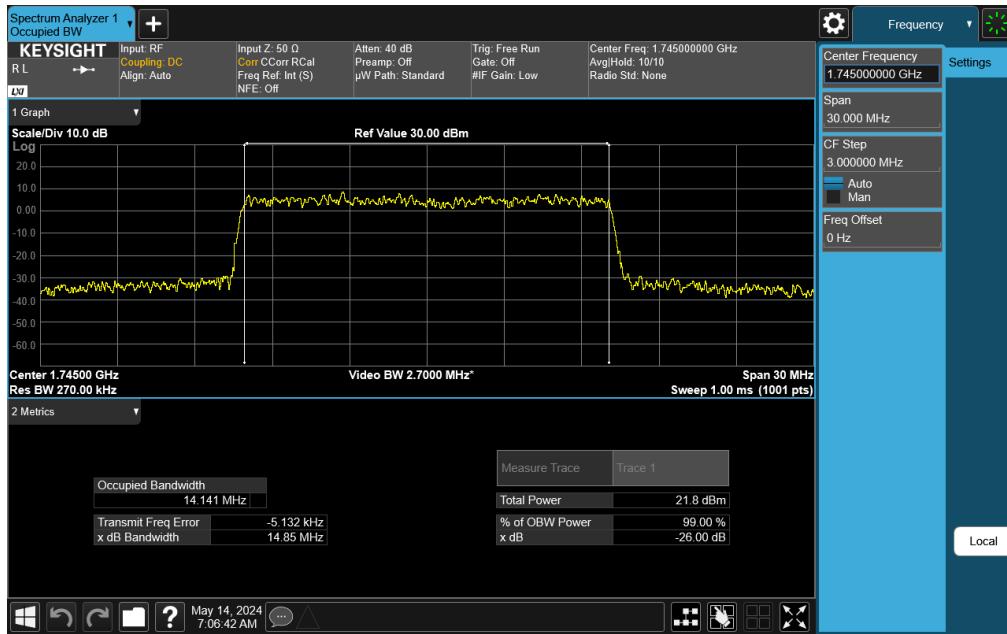


Plot 7-75. Occupied Bandwidth Plot (NR Band n66 - 15MHz DFT-s-OFDM π/2 BPSK - Full RB)



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

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 56 of 351	



Plot 7-77. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 16QAM - Full RB)

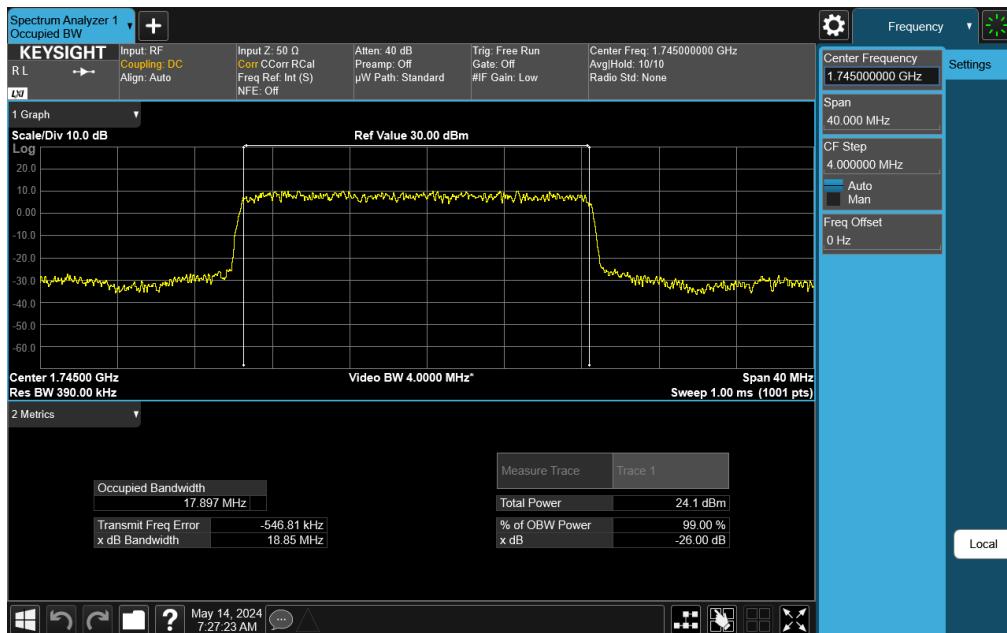


Plot 7-78. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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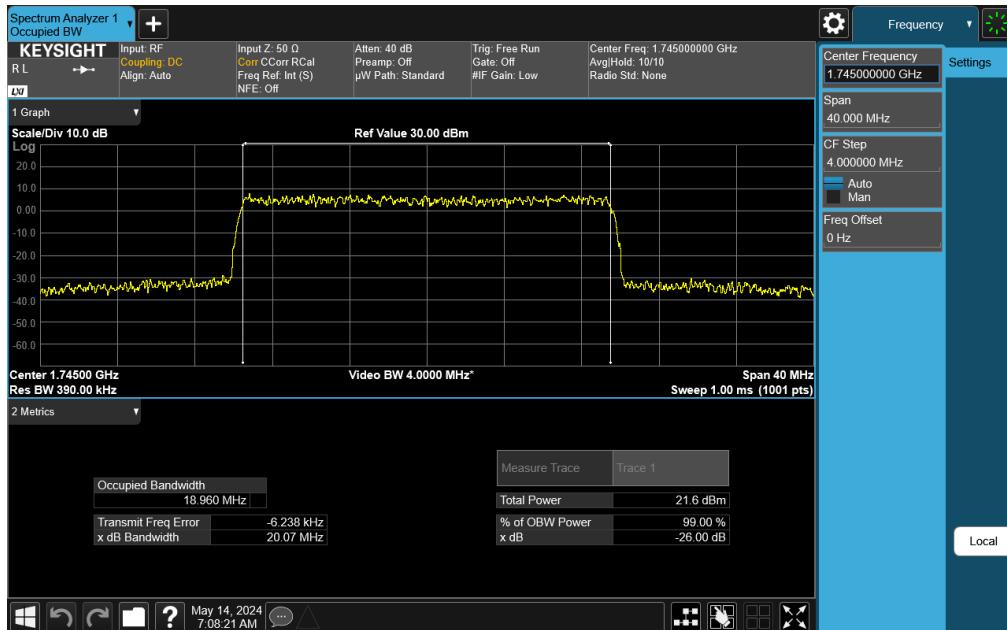


Plot 7-79. Occupied Bandwidth Plot (NR Band n66 - 15MHz CP-OFDM 256QAM - Full RB)

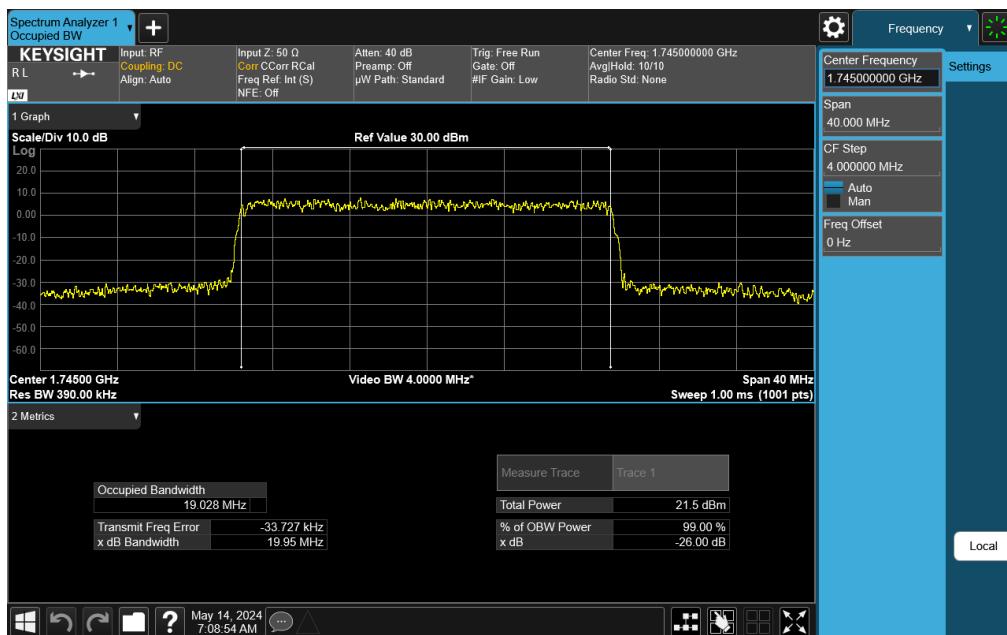


Plot 7-80. Occupied Bandwidth Plot (NR Band n66 - 20MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 58 of 351

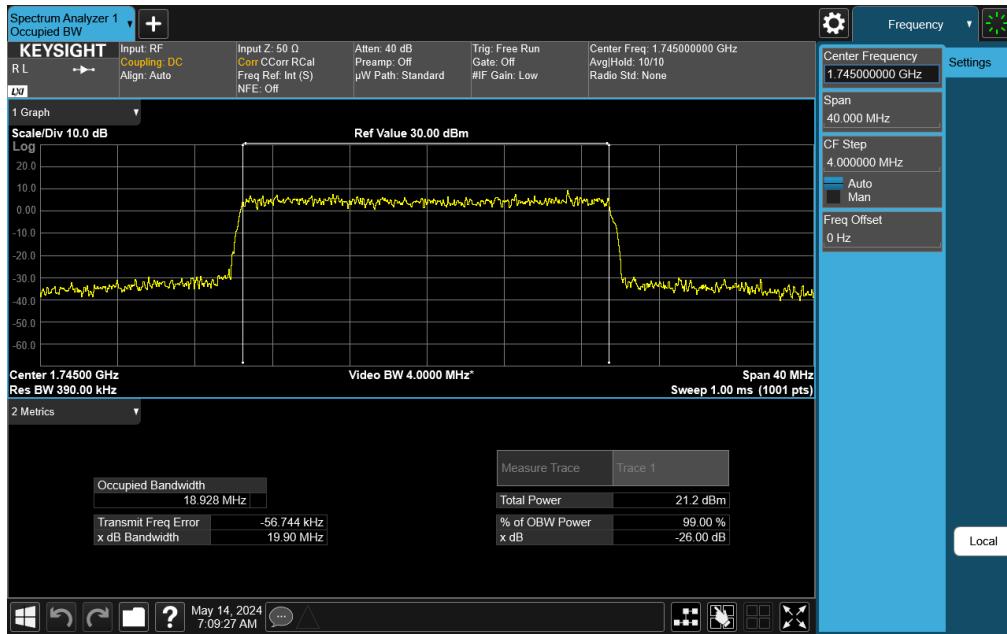


Plot 7-81. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM QPSK - Full RB)

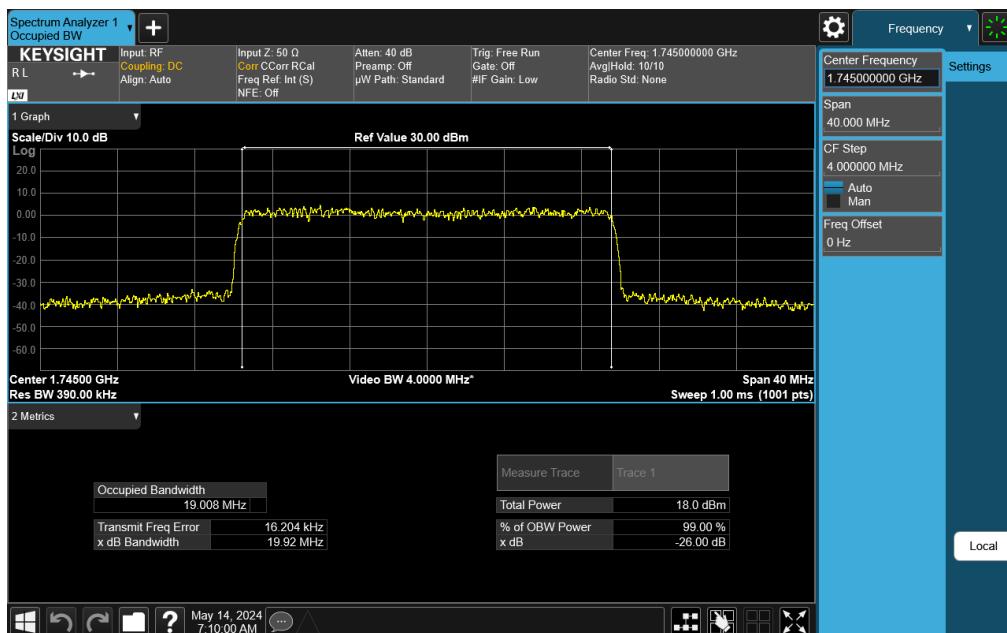


Plot 7-82. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 16QAM - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 59 of 351	

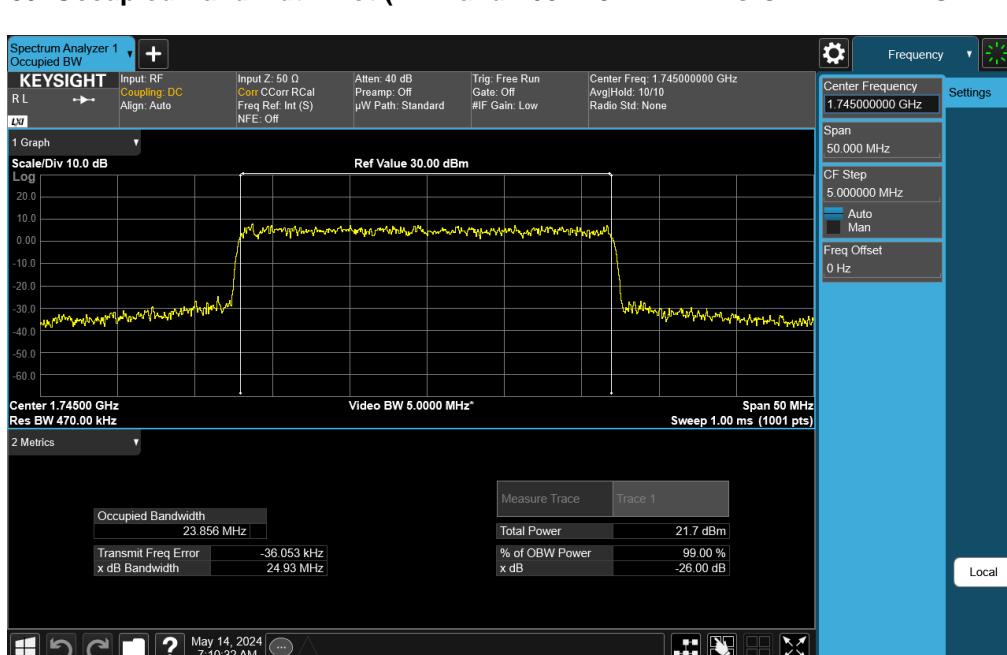
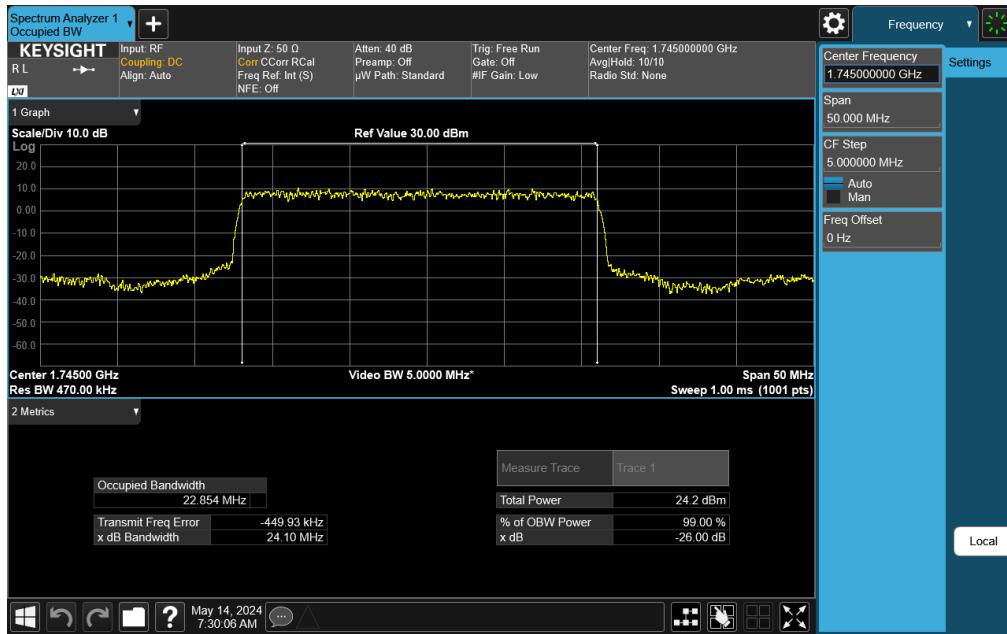


Plot 7-83. Occupied Bandwidth Plot (NR Band n66 - 20MHz CP-OFDM 64QAM - Full RB)



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

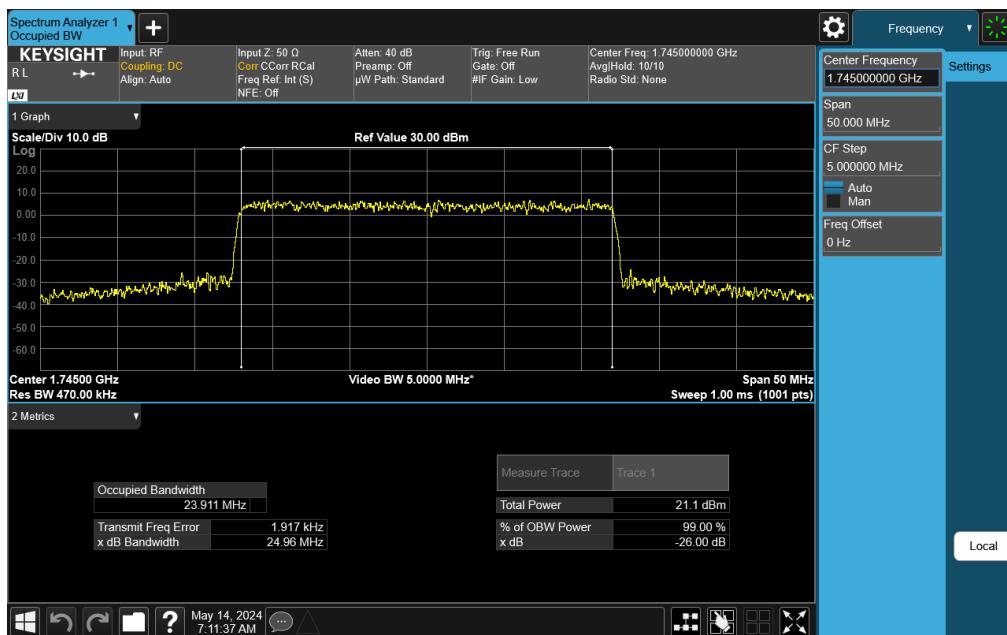
FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 60 of 351	



FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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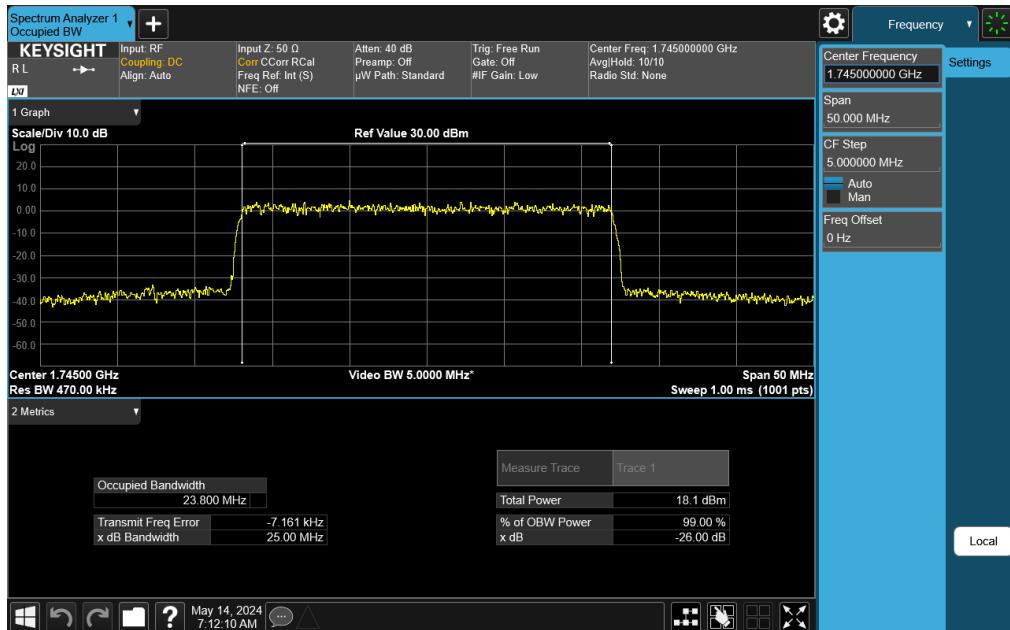


Plot 7-87. Occupied Bandwidth Plot (NR Band n66 - 25MHz CP-OFDM 16QAM - Full RB)



Plot 7-88. Occupied Bandwidth Plot (NR Band n66 - 25MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 62 of 351	



Plot 7-89. Occupied Bandwidth Plot (NR Band n66 - 25MHz CP-OFDM 256QAM - Full RB)



Plot 7-90. Occupied Bandwidth Plot (NR Band n66 - 30MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 63 of 351

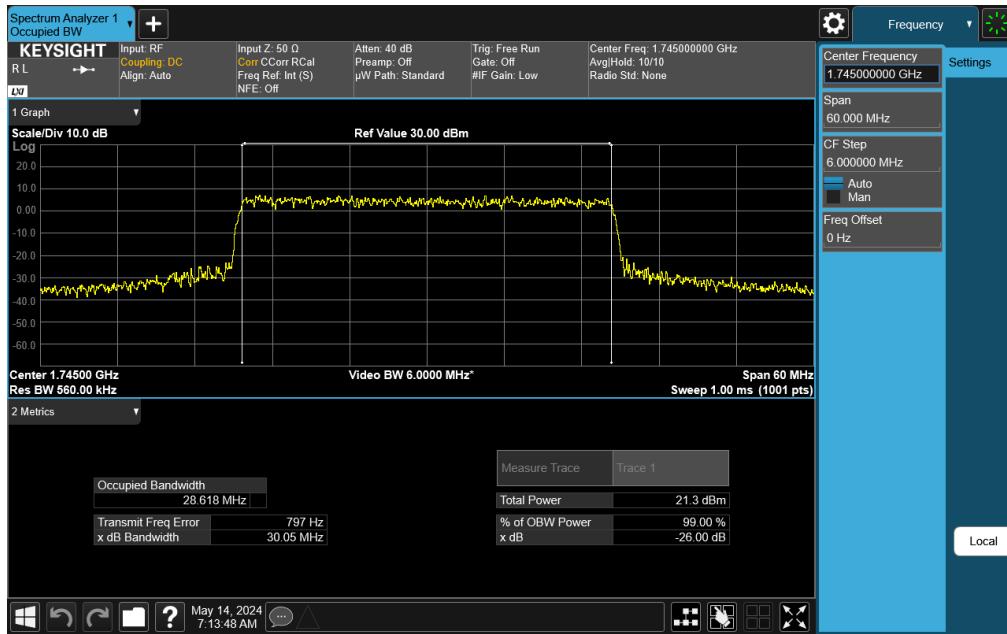


Plot 7-91. Occupied Bandwidth Plot (NR Band n66 - 30MHz CP-OFDM QPSK - Full RB)

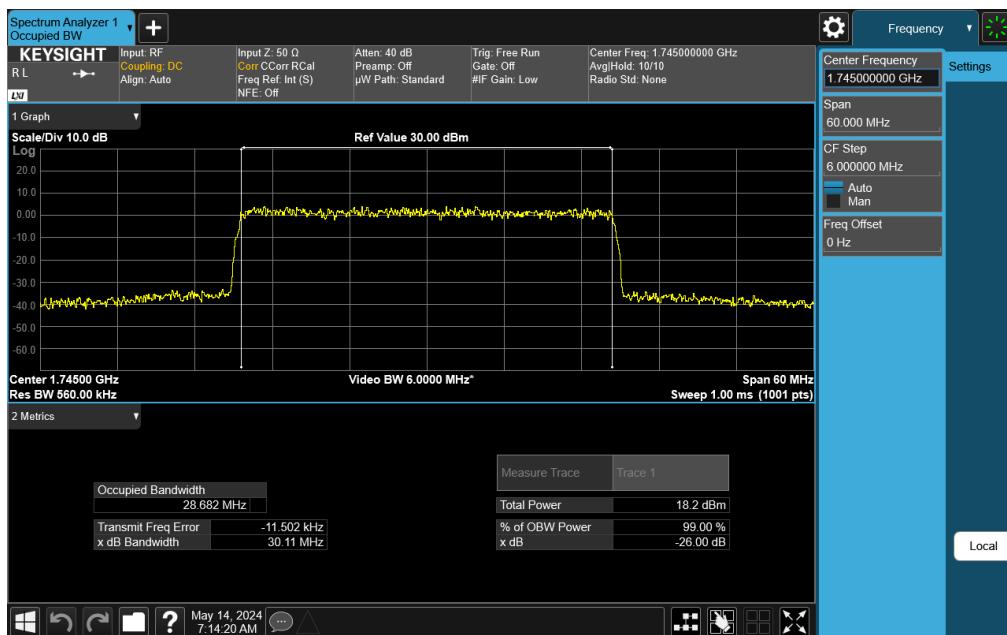


Plot 7-92. Occupied Bandwidth Plot (NR Band n66 - 30MHz CP-OFDM 16QAM - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 64 of 351	



Plot 7-93. Occupied Bandwidth Plot (NR Band n66 - 30MHz CP-OFDM 64QAM - Full RB)



Plot 7-94. Occupied Bandwidth Plot (NR Band n66 - 30MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device		Page 65 of 351



Plot 7-95. Occupied Bandwidth Plot (NR Band n66 - 35MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-96. Occupied Bandwidth Plot (NR Band n66 - 35MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2995	element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2405200018-09-R1.BCG	Test Dates: 4/18/2024 - 6/24/2024	EUT Type: Tablet Device	Page 66 of 351	