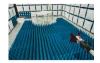


Element Materials Technology

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



PART 27 MEASUREMENT REPORT

Applicant Name:

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

Date of Testing: 10/1/2023 - 3/19/2024 Test Report Issue Date: 4/3/2024 Test Site/Location: Element Materials Technology, Morgan Hill, CA, USA Test Report Serial No.: 1C2311270070-09.BCG

FCC ID: BCGA2926 APPLICANT: Apple Inc.

Model: EUT Type: FCC Classification: FCC Rule Part: Test Procedure(s):

A2926, A3007 Tablet Device PCS Licensed Transmitter (PCB) 27 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

Prepared by: WKR0000006193

Reviewed by: WKR0000005805



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			EF	ERP			
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		QPSK	665.5 - 695.5	4.5353	0.150	21.75	4M54G7W
	5 MHz	16QAM	665.5 - 695.5	4.5281	0.126	21.02	4M53D7W
		64QAM	665.5 - 695.5	4.5385	0.098	19.91	4M54D7W
		256QAM	665.5 - 695.5	4.5229	0.048	16.79	4M52D7W
		QPSK	668.0 - 693.0	9.0389	0.148	21.69	9M04G7W
	10 MU-	16QAM	668.0 - 693.0	9.0288	0.126	20.99	9M03D7W
	10 MHz	64QAM	668.0 - 693.0	9.0288	0.096	19.83	9M03D7W
LTE Band 71		256QAM	668.0 - 693.0	8.9881	0.048	16.79	8M99D7W
LIE Danu / I		QPSK	670.5 - 690.5	13.5114	0.140	21.47	13M5G7W
		16QAM	670.5 - 690.5	13.5067	0.123	20.91	13M5D7W
	15 MHz	64QAM	670.5 - 690.5	13.4915	0.094	19.75	13M5D7W
		256QAM	670.5 - 690.5	13.5237	0.046	16.63	13M5D7W
		QPSK	673.0 - 688.0	17.9788	0.143	21.56	18M0G7W
	00 1411	16QAM	673.0 - 688.0	17.9659	0.122	20.85	18M0D7W
	20 MHz	64QAM	673.0 - 688.0	17.9991	0.098	19.90	18M0D7W
		256QAM	673.0 - 688.0	17.9381	0.047	16.69	17M9D7W
		QPSK	699.7 - 715.3	1.1068	0.135	21.29	1M11G7W
		16QAM	699.7 - 715.3	1.1097	0.116	20.64	1M11D7W
	1.4 MHz	64QAM	699.7 - 715.3	1.1063	0.088	19.45	1M11D7W
		256QAM	699.7 - 715.3	1.1090	0.044	16.42	1M11D7V
		QPSK	700.5 - 714.5	2.7155	0.134	21.28	2M72G7W
		16QAM	700.5 - 714.5	2.7186	0.113	20.52	2M72D7W
LTE Band 12	3 MHz	64QAM	700.5 - 714.5	2.7166	0.089	19.48	2M72D7W
		256QAM	700.5 - 714.5	2.7220	0.046	16.61	2M72D7W
		QPSK	701.5 - 713.5	4.5311	0.139	21.44	4M53G7V
		16QAM	701.5 - 713.5	4.5245	0.116	20.65	4M52D7W
	5 MHz	64QAM	701.5 - 713.5	4.5383	0.091	19.57	4M54D7W
		256QAM	701.5 - 713.5	4.5179	0.045	16.57	4M52D7W
		QPSK	704.0 - 711.0	8.9976	0.134	21.27	9M00G7W
		16QAM	704.0 - 711.0	9.0121	0.116	20.63	9M01D7W
	10 MHz	64QAM	704.0 - 711.0	9.0099	0.089	19.47	9M01D7W
		256QAM	704.0 - 711.0	8.9990	0.044	16.44	9M00D7W
		QPSK	706.5 - 713.5	4.5311	0.139	21.44	4M53G7V
		16QAM	706.5 - 713.5	4.5245	0.115	20.61	4M52D7W
	5 MHz	64QAM	706.5 - 713.5	4.5383	0.091	19.60	4M54D7W
		256QAM	706.5 - 713.5	4.5179	0.045	16.53	4M52D7W
LTE Band 17		QPSK	709.0 - 711.0	8.9976	0.133	21.24	9M00G7W
		16QAM	709.0 - 711.0	9.0121	0.115	20.60	9M01D7W
	10 MHz	64QAM	709.0 - 711.0	9.0099	0.090	19.52	9M01D7W
		256QAM	709.0 - 711.0	8.9990	0.045	16.51	9M00D7W
		QPSK	779.5 - 784.5	4.5339	0.130	21.15	4M53G7V
		16QAM	779.5 - 784.5	4.5351	0.118	20.72	4M54D7W
	5 MHz	64QAM	779.5 - 784.5	4.5251	0.098	19.91	4M53D7W
		256QAM	779.5 - 784.5	4.5327	0.098	16.76	4M53D7W
LTE Band 13		QPSK	782.0	9.0101	0.130	21.14	9M01G7V
		16QAM	782.0	9.0278	0.130	20.64	9M01G7W
	10 MHz	64QAM	782.0	9.0278	0.094	20.64	9M03D7W
		256QAM	782.0	9.0090	0.094		
			/iew Table (<1G		0.045	16.55	9M00D7W

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					EF		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		π/2 BPSK	665.5 - 695.5	4.4799	0.142	21.52	4M48G7W
		QPSK	665.5 - 695.5	4.4549	0.145	21.60	4M45G7W
	5 MHz	16QAM	665.5 - 695.5	4.4717	0.113	20.53	4M47D7W
		64QAM	665.5 - 695.5	4.4961	0.082	19.16	4M50D7W
		256QAM	665.5 - 695.5	4.4671	0.047	16.71	4M47D7W
		π/2 BPSK	668.0 - 693.0	8.9446	0.141	21.49	8M94G7W
		QPSK	668.0 - 693.0	9.3004	0.140	21.47	9M30G7W
	10 MHz	16QAM	668.0 - 693.0	9.2480	0.114	20.58	9M25D7W
		64QAM	668.0 - 693.0	9.3212	0.081	19.08	9M32D7W
NR Band n71		256QAM	668.0 - 693.0	9.2958	0.049	16.92	9M30D7W
NIX Dand II/ I		π/2 BPSK	670.5 - 690.5	13.4856	0.150	21.75	13M5G7W
		QPSK	670.5 - 690.5	14.1007	0.149	21.74	14M1G7W
	15 MHz	16QAM	670.5 - 690.5	14.0674	0.125	20.96	14M1D7W
		64QAM	670.5 - 690.5	14.1890	0.084	19.24	14M2D7W
		256QAM	670.5 - 690.5	14.1249	0.051	17.07	14M1D7W
	20 MHz	π/2 BPSK	673.0 - 688.0	17.8386	0.145	21.62	17M8G7W
		QPSK	673.0 - 688.0	18.9436	0.145	21.60	18M9G7W
		16QAM	673.0 - 688.0	18.9767	0.119	20.76	19M0D7W
		64QAM	673.0 - 688.0	18.9609	0.083	19.18	19M0D7W
		256QAM	673.0 - 688.0	18.9467	0.050	16.96	18M9D7W
		π/2 BPSK	701.5 - 713.5	4.4666	0.132	21.21	4M47G7W
		QPSK	701.5 - 713.5	4.4755	0.133	21.23	4M48G7W
	5 MHz	16QAM	701.5 - 713.5	4.4595	0.112	20.49	4M46D7W
		64QAM	701.5 - 713.5	4.4972	0.080	19.05	4M50D7W
		256QAM	701.5 - 713.5	4.4809	0.046	16.58	4M48D7W
		π/2 BPSK	704.0 - 711.0	8.9161	0.131	21.17	8M92G7W
		QPSK	704.0 - 711.0	9.2378	0.131	21.19	9M24G7W
NR Band n12	10 MHz	16QAM	704.0 - 711.0	9.2890	0.111	20.44	9M29D7W
		64QAM	704.0 - 711.0	9.2792	0.077	18.89	9M28D7W
		256QAM	704.0 - 711.0	9.2595	0.048	16.83	9M26D7W
		π/2 BPSK	706.5 - 708.5	13.4354	0.137	21.36	13M4G7W
		QPSK	706.5 - 708.5	14.1191	0.140	21.45	14M1G7W
	15 MHz	16QAM	706.5 - 708.5	14.0763	0.109	20.36	14M1D7W
		64QAM	706.5 - 708.5	14.0981	0.109	18.91	14M1D7W
		256QAM			0.078	16.80	14M2D7W
		ZOOQAIN	706.5 - 708.5	14.1530	0.048	10.80	1410120700

Overview Table (<1GHz Band)

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						EIRP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	Max. Power [W]	Max. Power [dBm]	Emission Designator
WCDMA1700	5 MHz	Spread Spectrum	1712.4 - 1752.6	4.1724	2.86	0.292	24.65	4M17F9W
		QPSK	1710.7 - 1754.3	1.1122	5.27	0.295	24.70	1M11G7W
	1.4 MHz	16QAM	1710.7 - 1754.3	1.1112	6.22	0.249	23.97	1M11D7W
	1.4 1011 12	64QAM	1710.7 - 1754.3	1.1073	6.80	0.193	22.86	1M11D7W
		256QAM	1710.7 - 1754.3	1.1045	7.23	0.097	19.88	1M10D7W
		QPSK	1711.5 - 1753.5	2.7171	5.19	0.291	24.64	2M72G7W
	3 MHz	16QAM	1711.5 - 1753.5	2.7186	6.13	0.245	23.90	2M72D7W
	0 10112	64QAM	1711.5 - 1753.5	2.7161	6.69	0.192	22.83	2M72D7W
		256QAM	1711.5 - 1753.5	2.7206	7.18	0.095	19.77	2M72D7W
		QPSK	1712.5 - 1752.5	4.5311	5.27	0.293	24.68	4M53G7W
	5 MHz	16QAM	1712.5 - 1752.5	4.5345	6.11	0.253	24.04	4M53D7W
	0	64QAM	1712.5 - 1752.5	4.5479	6.68	0.191	22.82	4M55D7W
LTE Band 4		256QAM	1712.5 - 1752.5	4.5363	7.05	0.096	19.81	4M54D7W
ETE Bana T		QPSK	1715.0 - 1750.0	9.0233	5.31	0.289	24.62	9M02G7W
	10MHz	16QAM	1715.0 - 1750.0	9.0668	6.06	0.246	23.92	9M07D7W
		64QAM	1715.0 - 1750.0	9.0493	6.61	0.194	22.88	9M05D7W
		256QAM	1715.0 - 1750.0	9.0238	7.26	0.096	19.81	9M02D7W
		QPSK	1717.5 - 1747.5	13.5164	5.47	0.283	24.52	13M5G7W
	15 MHz	16QAM	1717.5 - 1747.5	13.5476	6.12	0.244	23.88	13M5D7W
		64QAM	1717.5 - 1747.5	13.5568	6.70	0.186	22.70	13M6D7W
		256QAM	1717.5 - 1747.5	13.5544	7.51	0.092	19.63	13M6D7W
		QPSK	1720.0 - 1745.0	18.0076	5.29	0.276	24.41	18M0G7W
	20 MHz	16QAM	1720.0 - 1745.0	18.0292	6.00	0.248	23.95	18M0D7W
		64QAM	1720.0 - 1745.0	18.0543	6.63	0.198	22.97	18M1D7W
		256QAM	1720.0 - 1745.0	17.9936	7.35	0.093	19.68	18M0D7W
	1.4 MHz	QPSK	1710.7 - 1779.3	1.1122	5.24	0.240	23.80	1M11G7W
		16QAM	1710.7 - 1779.3	1.1112	6.13	0.201	23.04	1M11D7W
		64QAM	1710.7 - 1779.3	1.1073	6.63	0.156	21.94	1M11D7W
		256QAM	1710.7 - 1779.3	1.1045	7.19	0.077	18.89	1M10D7W
		QPSK	1711.5 - 1778.5	2.7171	5.19	0.238	23.76	2M72G7W
	3 MHz	16QAM	1711.5 - 1778.5	2.7186	6.10	0.202	23.06	2M72D7W
		64QAM	1711.5 - 1778.5	2.7161	6.64	0.157	21.97	2M72D7W
		256QAM	1711.5 - 1778.5	2.7206	7.15	0.077	18.86	2M72D7W
		QPSK	1712.5 - 1777.5	4.5311	5.26	0.240	23.80	4M53G7W
	5 MHz	16QAM	1712.5 - 1777.5	4.5345	6.07	0.208	23.19	4M53D7W
	-	64QAM	1712.5 - 1777.5	4.5479	6.61	0.162	22.11	4M55D7W
LTE Band 66		256QAM	1712.5 - 1777.5	4.5363	7.17	0.078	18.94	4M54D7W
		QPSK	1715.0 - 1775.0	9.0233	5.29	0.234	23.70	9M02G7W
	10 MHz	16QAM	1715.0 - 1775.0	9.0668	6.04	0.200	23.01	9M07D7W
		64QAM	1715.0 - 1775.0	9.0493	6.57	0.159	22.02	9M05D7W
		256QAM	1715.0 - 1775.0	9.0238	7.21	0.080	19.01	9M02D7W
		QPSK	1717.5 - 1772.5	13.5164	5.45	0.232	23.65	13M5G7W
	15 MHz	16QAM	1717.5 - 1772.5	13.5476	6.11	0.198	22.96	13M5D7W
		64QAM	1717.5 - 1772.5	13.5568	6.63	0.155	21.92	13M6D7W
		256QAM	1717.5 - 1772.5	13.5544	7.44	0.075	18.77	13M6D7W
		QPSK	1720.0 - 1770.0	18.0076	5.27	0.225	23.52	18M0G7W
	20 MHz	16QAM	1720.0 - 1770.0	18.0292	5.98	0.204	23.09	18M0D7W
		64QAM	1720.0 - 1770.0	18.0543	6.57	0.154	21.87	18M1D7W
		256QAM	1720.0 - 1770.0	17.9936	7.31	0.073	18.66	18M0D7W

Overview Table (>1GHz Bands)

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						EIRP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		π/2 BPSK	1712.5 - 1777.5	4.4778	3.84	0.225	23.53	4M48G7W
		QPSK	1712.5 - 1777.5	4.4826	5.20	0.225	23.52	4M48G7W
	5 MHz	16QAM	1712.5 - 1777.5	4.4635	5.98	0.188	22.75	4M46D7W
		64QAM	1712.5 - 1777.5	4.4970	5.88	0.148	21.69	4M50D7W
		256QAM	1712.5 - 1777.5	4.4779	6.80	0.087	19.40	4M48D7W
		π/2 BPSK	1715.0 - 1775.0	8.9569	4.07	0.223	23.49	8M96G7W
		QPSK	1715.0 - 1775.0	9.3063	5.17	0.223	23.49	9M31G7W
	10 MHz	16QAM	1715.0 - 1775.0	9.3212	6.04	0.187	22.72	9M32D7W
		64QAM	1715.0 - 1775.0	9.2803	6.38	0.145	21.60	9M28D7W
		256QAM	1715.0 - 1775.0	9.3521	6.74	0.087	19.41	9M35D7W
		π/2 BPSK	1717.5 - 1772.5	13.4306	4.04	0.232	23.65	13M4G7W
		QPSK	1717.5 - 1772.5	14.1161	5.30	0.232	23.66	14M1G7W
	15 MHz	16QAM	1717.5 - 1772.5	14.1111	5.92	0.191	22.81	14M1D7W
		64QAM	1717.5 - 1772.5	14.1537	6.35	0.149	21.74	14M2D7W
		256QAM	1717.5 - 1772.5	14.2232	6.68	0.093	19.68	14M2D7W
		π/2 BPSK	1720.0 - 1770.0	17.8825	3.81	0.231	23.63	17M9G7W
		QPSK	1720.0 - 1770.0	18.9576	5.23	0.233	23.67	19M0G7W
	20 MHz	16QAM	1720.0 - 1770.0	18.9577	6.08	0.193	22.86	19M0D7W
		64QAM	1720.0 - 1770.0	18.9566	6.24	0.152	21.81	19M0D7W
NR Band n66		256QAM	1720.0 - 1770.0	18.9096	6.68	0.094	19.75	18M9D7W
NIX Dand 100		π/2 BPSK	1722.5 - 1767.5	22.9664	3.98	0.233	23.67	23M0G7W
		QPSK	1722.5 - 1767.5	23.7512	5.16	0.240	23.80	23M8G7W
	25 MHz	16QAM	1722.5 - 1767.5	23.8167	5.96	0.191	22.80	23M8D7W
		64QAM	1722.5 - 1767.5	23.7776	6.30	0.146	21.66	23M8D7W
3		256QAM	1722.5 - 1767.5	23.8690	6.68	0.095	19.76	23M9D7W
		π/2 BPSK	1725.0 - 1765.0	28.5564	3.77	0.226	23.53	28M6G7W
		QPSK	1725.0 - 1765.0	28.6259	5.18	0.226	23.54	28M6G7W
	30 MHz	16QAM	1725.0 - 1765.0	28.6780	6.03	0.187	22.72	28M7D7W
		64QAM	1725.0 - 1765.0	28.6718	6.32	0.145	21.63	28M7D7W
		256QAM	1725.0 - 1765.0	28.6202	6.66	0.093	19.67	28M6D7W
		π/2 BPSK	1727.5 - 1762.5	32.3012	3.81	0.237	23.75	32M3G7W
		QPSK	1727.5 - 1762.5	33.7035	5.31	0.238	23.77	33M7G7W
	35 MHz	16QAM	1727.5 - 1762.5	33.5324	5.94	0.195	22.90	33M5D7W
		64QAM	1727.5 - 1762.5	33.6401	6.23	0.152	21.82	33M6D7W
		256QAM	1727.5 - 1762.5	33.4732	6.63	0.092	19.62	33M5D7W
		π/2 BPSK	1730.0 - 1760.0	38.6343	3.77	0.231	23.63	38M6G7W
		QPSK	1730.0 - 1760.0	38.7637	5.30	0.233	23.68	38M8G7W
	40 MHz	16QAM	1730.0 - 1760.0	38.6356	5.99	0.185	22.67	38M6D7W
		64QAM	1730.0 - 1760.0	38.6490	6.30	0.148	21.71	38M6D7W
		256QAM	1730.0 - 1760.0	38.6726	6.63	0.096	19.81	38M7D7W
		π/2 BPSK	1712.5 - 1777.5	4.4476	4.53	0.283	24.52	4M45G7W
		QPSK	1712.5 - 1777.5	4.4747	5.31	0.288	24.60	4M47G7W
	5 MHz	16QAM	1712.5 - 1777.5	4.4643	6.13	0.254	24.05	4M46D7W
		64QAM	1712.5 - 1777.5	4.4949	6.30	0.179	22.52	4M49D7W
L		256QAM	1712.5 - 1777.5	4.4953	6.83	0.114	20.58	4M50D7W
		π/2 BPSK	1715.0 - 1775.0	8.9616	4.22	0.280	24.48	8M96G7W
		QPSK	1715.0 - 1775.0	9.3575	5.19	0.284	24.54	9M36G7W
NR Band n70	10 MHz	16QAM	1715.0 - 1775.0	9.3096	6.04	0.263	24.19	9M31D7W
		64QAM	1715.0 - 1775.0	9.3084	6.24	0.184	22.65	9M31D7W
		256QAM	1715.0 - 1775.0	9.3221	6.63	0.117	20.67	9M32D7W
ſ		π/2 BPSK	1717.5 - 1772.5	13.4617	4.32	0.288	24.59	13M5G7W
		QPSK	1717.5 - 1772.5	14.1249	5.27	0.286	24.57	14M1G7W
	15 MHz	16QAM	1717.5 - 1772.5	14.0997	5.97	0.248	23.94	14M1D7W
		64QAM	1717.5 - 1772.5	14.1324	6.30	0.206	23.15	14M1D7W
		256QAM	1717.5 - 1772.5	14.1790	6.81		21.17	14M2D7W

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: BCGA2926**. 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.: HJ5C9VR4GL, K73QQTXQ6R, YP672PW96X, DLXGY40006P000063B, DLXGY400085000063B

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.

		Wifi 2GHz	Bluetooth	Thread	Wifi 5GHz	Wifi 6GHz	NB UNII	LTE/F	R1 NR
Antenna	Simultaneous Tx Config	802.11 b/g/n/ax	BDR, EDR, HDR4/8, LE1/2M	802.15.4	802.11 a/n/ac/ax	802.11 a/ax	BDR, HDR4/8	МВ/НВ	UHB
2a	Config 1	X	\checkmark	X	\checkmark	X	X	X	X
2a	Config 2	X	\checkmark	Х	X	\checkmark	X	X	X
2a	Config 3	\checkmark	X	X	X	X	\checkmark	X	X
2a	Config 4	X	X	\checkmark	\checkmark	X	X	X	X
2a	Config 5	X	X	\checkmark	X	\checkmark	X	X	X
4a	Config 6	X	\checkmark	X	\checkmark	X	X	X	X
4a	Config 7	X	\checkmark	X	X	\checkmark	X	X	X
4a	Config 8	\checkmark	X	X	X	X	\checkmark	X	X
4a	Config 9	X	X	\checkmark	\checkmark	X	X	X	X
4a	Config 10	X	X	\checkmark	X	√	X	X	X

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, RF UNII OFDM test reports.

Specific 2.4GHz Wi-Fi antenna that can only transmit simultaneously with 2.4GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4GHz) in connected mode and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. For BT (2.4GHz) in disconnected mode and Wi-Fi (2.4GHz) - BT will be using iPA only and Wi-Fi max power will not exceed minimum of (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

Band	Antenna Gain [dBi]					
Bana	Antenna 3	Antenna 1	Antenna 4b	Antenna 2b		
LTE Band 12/17	-2.1	-0.9	×	×		
NR Band 12	-2.1	-0.9	^	×		
LTE Band 13	-2.4	-2.6	×	×		
LTE Band 4/66						
NR Band n66	-0.5	-3.5	-1.8	-1.4		
WCDMA1700						
LTE Band 71	1.0	0.0	×			
NR Band n71	-1.8	-0.9		×		
NR Band 70	-0.6	-5.0	-3.2	-3.1		

Following antenna gains provided by manufacturer were used for testing.

Table 2-2. Highest Antenna Gain

× = Not Support

2.4 Test Support Equipment

1	Apple MacBook Pro	Model:	A2141	S/N:	C02H604EQ05D			
	w/AC/DC Adapter	Model:	A2166	S/N:	C4H042705ZNPM0WA6			
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024			
3	USB-C Cable	Model:	A246C	S/N:	DWH80115BK826GV19			
	w/ AC Adapter	Model:	A2305	S/N:	C4H95160004PF4F4V			
4	DC Power Supply	Model:	KPS3010D	S/N:	N/A			
5	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW			

 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 21E8197 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

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

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

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

Deviation from Measurement Procedure......None

3.2 Radiated Spurious Emissions

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

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

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

 $E_{[dB\mu V/m]}$ = Measured amplitude level_[dBm] + 107 + Cable Loss_[dB] + Antenna Factor_[dB/m] And

 $EIRP_{[dBm]} = E_{[dB\mu V/m]} + 20logD - 104.8$; where D 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 (±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)	4.59

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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
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	6/21/2023	Annual	6/21/2024	MY49430244
ESPEC	SU-241	Tabletop Temperature Chamber	11/17/2023	Annual	11/17/2024	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	3/30/2023	Annual	3/30/2024	00218555
Keysight Technology	N9040B	UXA Signal Analyzer	11/5/2023	Annual	11/5/2024	MY57213068
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/31/2023	Annual	8/31/2024	100052
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/11/2023	Annual	5/11/2024	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	6/6/2023	Annual	6/6/2024	101668
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	6/22/2023	Annual	6/22/2024	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)	6/2/2023	Annual	6/2/2024	100050
Rohde & Schwarz	HFH2-Z2	Loop Antenna	5/1/2023	Annual	5/1/2024	100519
Rohde & Schwarz	FSW43	Signal Analyzer (2Hz-43.5GHz)	7/13/2023	Annual	7/13/2024	101261
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/17/2023	Annual	4/17/2024	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.

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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)

π/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 analzyer. 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:	<u>Apple Inc.</u>
FCC ID:	BCGA2926
FCC Classification:	PCS Licensed Transmitter (PCB)
Mode(s):	WCDMA/LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
	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	NA	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)			PASS	Section 7.6
CONDUCTED	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n71)	07 504 1401	< 3 Watts max. ERP	PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 12/17)	27.50(b)(10)	< 3 Watts max. EKP	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)			PASS	Section 7.6
	Equivalent lsotropic Radiated Power (NR Band n66)	27 50(WA)		PASS	Section 7.6
	Equivalent Isotropic Radiated Power (LTE Band 4/66)	27.50(d)(4)	< 1 Watts max. EIRP	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.
- 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 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 \ge 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

Test Setup

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

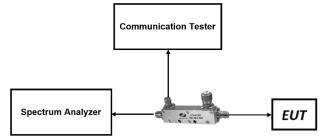


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

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LTE Band 66/4

🔤 Keysight Spectrum Analyzer - Occupied BW	V				
IXIRL RF 50Ω DC	🛶 Trig	SENSE:INT ter Freq: 1.745000000 : Free Run Av en: 36 dB	ALIGN AUTO GHz g Hold: 100/100	03:10:24 PM Dec 10, 20 Radio Std: None Radio Device: BTS	23 Trace/Detector
10 dB/div Ref 40.00 dBn	n				
20.0 10.0		man and a second and			Clear Write
0.00 -10.0 -20.0	March I		Munund	harmon and the	Average
-30 0 -40 0 -50 0					Max Hold
Center 1.745000 GHz Res BW 33 kHz		VBW 330 kHz		Span 3.500 Mł Sweep 5.867 n	
Occupied Bandwidt	^h 1122 MHz	Total Powe	er 33.4	l dBm	Detector Peak▶
Transmit Freq Error x dB Bandwidth	2.285 kHz 1.366 MHz	% of OBW ∣ x dB		0.00 % 00 dB	Auto <u>Man</u>
MSG			STATUS	5	





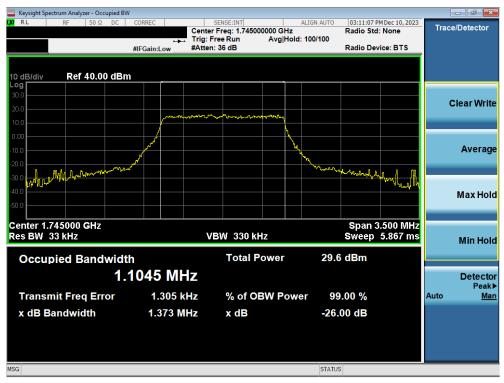
Plot 7-2. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyze													
CRL RF	50 Ω D	C CO	RREC			ISE:INT eq: 1.7450	00000 GI		ALIGN AUTO	03:10:46 P Radio Std	M Dec 10, 2023	Tra	ce/Detector
				1	Trig: Free	Run			100/100		. Hone		
		#IF	Gain:Lo	w t	#Atten: 3	6 dB				Radio Dev	vice: BTS		
10 dB/div Ref 4	0.00 d	IBm											
-og													
30.0													Clear Write
20.0			ſ	un	physical second	work	munny						
10.0			- f					1					
0.00			لم ا					۲ ۱					
10.0		\$	<i>.</i>					η.	h				Averag
20.0	a anal or	April							mar and	Pholo and			
20.0 4 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	041-01-									···· WUMAN	~174mmmy		
40.0													M -
50.0													Max Hole
30.0													_
Center 1.745000 G	Hz									Span 3	3.500 MHz		
Res BW 33 kHz					VBV	V 330 k	Hz			Sweep	5.867 ms		Min Hol
		-141-				Total I	Dowor		24.2	dBm			
Occupied Ba						TOLAT	ower		91.3	ивш			
		1.10	73	MHz	Z								Detecto
T ara a sa 14 F ara a			0.7		_	0/ -50				00.0/		Auto	Peak
Transmit Freq	Error		2.1	60 kH	Z	% of C	BWP	owe	er 99	.00 %		Auto	<u>Ma</u>
x dB Bandwidt	th		1.3	68 MH	Z	x dB			-26.	00 dB			
SG									STATUS				
									0				





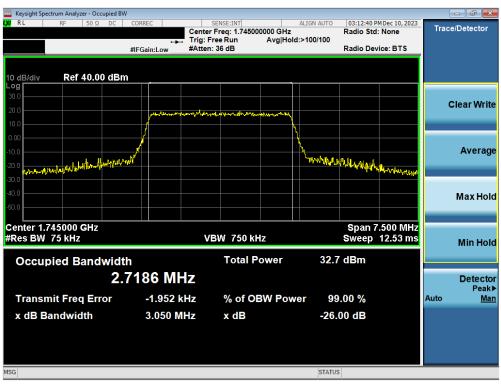
Plot 7-4. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 19 of 344
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								- ē 🔀
X/ RL RF 50 Ω DC	CORREC	SENSE:INT Center Freg: 1.745		ALIGN AUTO	03:12:34 F	M Dec 10, 2023	Trac	e/Detector
	#IFGain:Low	The second second second	Avg Hold:	100/100	Radio Dev			
10 dB/div Ref 40.00 dBm	<u> </u>							
20.0	mana	งแปลาย	-				(Clear Write
10.0			\	\				Average
-10.0 -20.0 -30.0	Mark I			WWU HARAN	look to two the	Millelvilageborrhad		Average
-40.0								Max Hold
Center 1.745000 GHz #Res BW 75 kHz		VBW 7501	<hz< td=""><td></td><td></td><td>7.500 MHz 12.53 ms</td><td></td><td>Min Hold</td></hz<>			7.500 MHz 12.53 ms		Min Hold
Occupied Bandwidtl	h	Total	Power	33.5	dBm			
	7171 MH	z						Detector Peak▶
Transmit Freq Error	-592	Hz % of C	DBW Powe	er 99	.00 %		Auto	Man
x dB Bandwidth	3.056 MI	Hz xdB		-26.	00 dB			
MSG				STATUS	6			

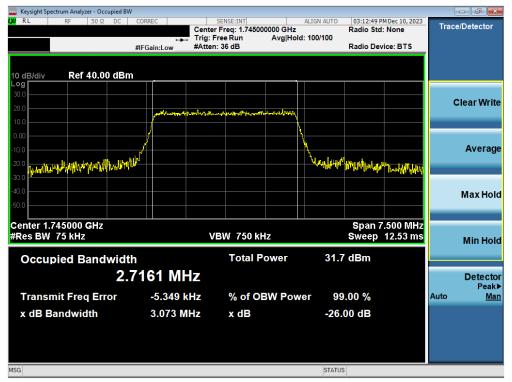
Plot 7-5. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)



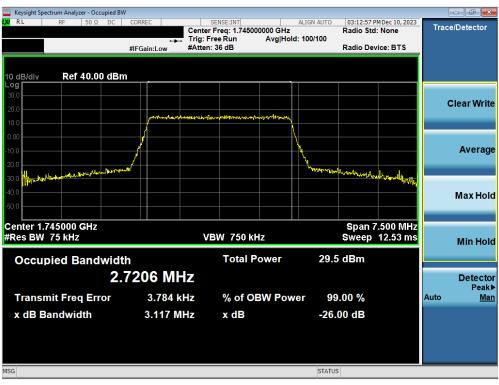
Plot 7-6. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied BW								
LXI RE S0Ω DC	CORREC	SENSE:INT		LIGN AUTO	03:13:49 Pf Radio Std:	MDec 10, 2023	Trace	/Detector
	+→→ #IFGain:Low	Trig: Free Run #Atten: 36 dB	Avg Hold:	100/100	Radio Dev	ice: BTS		
	#IFGain:Low	#Atten: 36 dB			Raulo Dev	ICE. DT3		
10 dB/div Ref 40.00 dBm								
30.0							0	lear Write
20.0	mon		mon				Ŭ	
10.0								
0.00	M							
-10.0	3 ⁰⁶			hullwhore				Average
-20.0 million and a source of the				** (14 44)	-	man		
-30.0								
-40.0								Max Hold
-50.0								
Center 1.745000 GHz						2.50 MHz		
Res BW 120 kHz		VBW 1.2 N	IHz		Swe	ep 1 ms		Min Hold
Occupied Bandwidth		Total	Power	33.6	dBm			
				0010				
4.5	311 MH	Z						Detector Peak▶
Transmit Freq Error	-3.149 kH	Hz % of C	BW Power	r 99.	.00 %		Auto	Man
x dB Bandwidth	5.173 MH	lz xdB		-26.0)0 dB			
MSG				STATUS				

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: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied BW					
IX RL RF 50Ω DC	CORREC	SENSE:INT Center Freq: 1.74500 Trig: Free Run	ALIGN AUTO 00000 GHz Avg Hold:>100/100	03:14:14 PM Dec 10, Radio Std: None	Trace/Detector
	#IFGain:Low	#Atten: 36 dB		Radio Device: BT	S
10 dB/div Ref 40.00 dBm	<u> </u>				
30.0					Clear Write
20.0	norman	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	manny		
0.00			<u> </u>		
-10.0	1			Λ	Average
-20.0 -20.0 -30.0			4) - 24 Milli	and for the second s	www.
-40.0					Max Hold
-50.0					
Center 1.745000 GHz Res BW 120 kHz		VBW 1.2 MI	Ηz	Span 12.50 f Sweep 1	
Occupied Bandwidt	h	Total P	ower 32.	3 dBm	
	5479 MH	Z			Detector Peak►
Transmit Freq Error	2.345 kH	z % of O	BW Power 9	9.00 %	Auto <u>Man</u>
x dB Bandwidth	5.260 MH	lz xdB	-26	.00 dB	
MSG			STATU	JS	

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: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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X RL RF 50 Ω CORREC SENSE:INT ALIGN AUTO 03:15:02 PM Dec 10, 2023 Center Freq: 1.745000000 GHz Radio Std: None Training	
Trig: Free Run Avg Hold:>100/100	ace/Detector
#IFGain:Low #Atten: 36 dB Radio Device: BTS	
10 dB/div Ref 40.00 dBm	
	Clear Write
20.0 10.0	
-10.0	Average
-20.0 hole of the second of th	
-40.0	Max Hold
Center 1.74500 GHz Span 25.00 MHz Res BW 240 kHz #VBW 750 kHz Sweep 1 ms	Min Hold
Occupied Bandwidth Total Power 33.5 dBm	
9.0233 MHz	Detector Peak▶
Transmit Freq Error -82 Hz % of OBW Power 99.00 % Auto	
x dB Bandwidth 10.04 MHz x dB -26.00 dB	
MSG STATUS	

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

Keysight Spectrum Analyzer - Occupied BW M RL RF 50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO 03:1	5:10 PM Dec 10, 2023	
	Cente	er Freq: 1.745000000 GH	lz Radio lold: 100/100	Std: None	Trace/Detector
10 dB/div Ref 40.00 dBm					
20.0		and acount of the second s	M		Clear Write
10.0 0.00 -10.0 -20.0	North Contraction of the second secon		have and all the second	month between the man	Average
-30.0					Max Hold
Center 1.74500 GHz Res BW 240 kHz	#	¢VBW 750 kHz		an 25.00 MHz Sweep 1 ms	Min Hold
Occupied Bandwidth 9.0) 668 MHz	Total Power	33.1 dBn	n	Detector Peak
Transmit Freq Error x dB Bandwidth	-5.559 kHz 10.21 MHz	% of OBW Po x dB	ower 99.00 % -26.00 dB		Auto <u>Man</u>
MSG			STATUS		

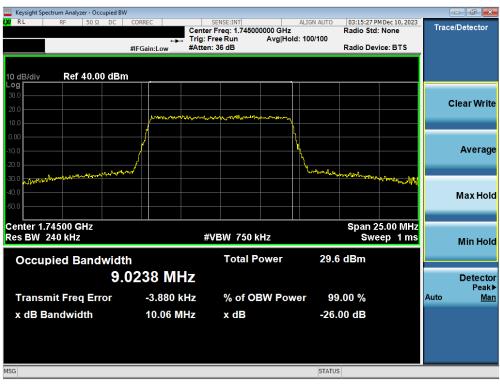
Plot 7-14. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied BW					
μ RL RF 50Ω DC	🛶 Trig		ALIGN AUTO Hz Hold: 100/100	03:15:21 PM Dec 10, 20: Radio Std: None	Trace/Detector
	#IFGain:Low #At	ten: 36 dB		Radio Device: BTS	-
10 dB/div Ref 40.00 dBm					
30.0					Clear Write
20.0	manna	Manage and a state of the state	norma and a second		
0.00			۱.		
-10.0					Average
-20.0			Web for the second	Wall Warth work work work work work work work work	
-30.0					
-40.0					Max Hold
-50.0					
Center 1.74500 GHz Res BW 240 kHz		#VBW 750 kHz		Span 25.00 MH Sweep 1 m	
Occupied Bandwidth	1	Total Powe	r 32.3	3 dBm	
)493 MHz				Detector Peak▶
Transmit Freq Error	-1.809 kHz	% of OBW F	ower 99	9.00 %	Auto <u>Man</u>
x dB Bandwidth	10.13 MHz	x dB	-26.	.00 dB	
MSG			STATU	S	

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: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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www. Keysight Spectrum Analyzer - Occup							×
(X) RL RF 50 Ω 1	DC CORREC	SENSE:INT Center Freq: 1.74500 Trig: Free Run #Atten: 36 dB	ALIGN 00000 GHz Avg Hold: 100/1	Radio Std:		Trace/Detec	tor
	#IFGain:Low	#Atten: 36 dB		Radio Devi	ce: BTS		
10 dB/div Ref 40.00 d	dBm						
30.0						Clear V	Nrite
20.0	and and the second second	ปหมูกสถานมาใ _{หญ่} แก่สามารถใบสาม	motormhy				
0.00	/						
-10.0	harmin		1. Junior	տութ		Ave	rage
-20.0 -20.0 -30.0				WMW Mar	Mounderstar		
-40.0						Мах	Hold
-50.0							
Center 1.74500 GHz Res BW 360 kHz		#VBW 1.2 N	1Hz		7.50 MHz ep 1 ms	Min	Hold
Occupied Bandw	vidth	Total P	ower	33.4 dBm			
Cooupled Dallall	13.516 MH	z					ector ^P eak▶
Transmit Freq Erro	r -6.137 k	Hz % of O	BW Power	99.00 %		Auto	Man
x dB Bandwidth	14.96 MI	Hz x dB		-26.00 dB			
MSG				STATUS			

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

Weysight Spectrum Analyzer - Occupied BW K RL RF 50 Ω DC	CORREC Cente	SENSE:INT r Freq: 1.745000000 GHz Free Run Avg Hol n: 36 dB	Radio St Id: 100/100	PMDec 10, 2023 d: None evice: BTS	Trace/Detector
10 dB/div Ref 40.00 dBn Log 30.0 20.0	and a second sec	WYN Labortowy of Marine			Clear Write
10.0 0.00 -10.0 -20.0	Anton		hun hunder	การใญพากะปรกกุญญาตน	Average
-30.0					Max Hold
Center 1.74500 GHz Res BW 360 kHz Occupied Bandwidt		VBW 1.2 MHz Total Power	Span Sw 32.7 dBm	37.50 MHz veep 1 ms	Min Hold
13	548 MHz				Detector Peak▶
Transmit Freq Error	4.615 kHz	% of OBW Pov			Auto <u>Man</u>
x dB Bandwidth	14.86 MHz	x dB	-26.00 dB		
MSG			STATUS		

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

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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,			V/2 2 09/07/2023



Keysight Spectrum Analyzer - Occupied BV					
💢 RL RF 50 Ω DC	· → -	SENSE:INT Center Freq: 1.74500 Trig: Free Run #Atten: 36 dB	ALIGN AUTO 00000 GHz Avg Hold:>100/100	03:16:21 PM Dec 10, 2023 Radio Std: None Radio Device: BTS	Trace/Detector
	#IFGain:Low	#Atten: 36 dB		Radio Device: B I S	ī
10 dB/div Ref 40.00 dBn	n				
30.0					Clear Write
20.0	Munahring	anter a star is a star of the	months		Clear Write
0.00					
-10.0			↓		Average
-20.0	nur ^{ur}		- July al way way way	Wound With why have not	
-30.0					
-40.0					Max Hold
Center 1.74500 GHz				Span 37.50 MHz	
Res BW 360 kHz		#VBW 1.2 N	IHz	Sweep 1 ms	
Occupied Bandwidt	h	Total P	ower 31.	8 dBm	
	3.557 MH	Z			Detector Peak▶
Transmit Freq Error	-9.042 k⊦	z % of Ol	BW Power 9	9.00 %	Auto <u>Man</u>
x dB Bandwidth	14.96 MH	z x dB	-26	.00 dB	
MSG			STATU	JS	

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

Keysight Spectrum Analyzer - Occupied BW	🛶 Trig: I		Radio Id: 100/100	5:27 PM Dec 10, 2023 • Std: None	Trace/De	tector
	#IFGain:Low #Atter	n: 36 dB	Radio	Device: BTS		
10 dB/div Ref 40.00 dBm						
20.0	and a second and a second a se	Managamana			Clea	r Write
10.0 0.00 10.0 20.0					A	verage
30.0 Julian and a second seco	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			and see work the top to the	Ma	ax Hold
Center 1.74500 GHz Res BW 360 kHz	#	VBW 1.2 MHz		an 37.50 MHz Sweep 1 ms	м	in Hold
Occupied Bandwidt	า	Total Power	29.6 dBn	n		_
13	.554 MHz				D	etector Peak▶
Transmit Freq Error	8.285 kHz	% of OBW Pov	ver 99.00 %	6	Auto	Mar
x dB Bandwidth	14.94 MHz	x dB	-26.00 di	3		
ISG			STATUS			

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

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Occupied BW						
ΙΧΙ RL RF 50 Ω DC		SENSE:INT Center Freq: 1.74500 Frig: Free Run	ALIGN AU 00000 GHz Avg Hold: 100/100	Radio Std:		Trace/Detector
	#IFGain:Low #	Atten: 36 dB		Radio Devid	e: BTS	
10 dB/div Ref 40.00 dBm	1					
Log 30.0 20.0		annes - annes - annes				Clear Write
0.00						
-10.0 -20.0	why here a second se		hypothese	how the analytic and any the	murra	Average
-30.0						Max Hold
Center 1.74500 GHz Res BW 470 kHz		#VBW 1.6 N	 1Hz		.00 MHz ep 1 ms	Min Hold
Occupied Bandwidt		Total P	ower 3	3.6 dBm		
18	.008 MHz	2				Detector Peak▶
Transmit Freq Error	3.612 kH	z % of O	BW Power	99.00 %	ŀ	Auto <u>Man</u>
x dB Bandwidth	19.72 MH	z xdB	-2	26.00 dB		
MSG			ст	ATUS		
mou			51			

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

🧱 Keysight Spectrum Analyzer - Occupied BW [X] RL RF 50 Ω DC	Trig: F	SENSE:INT r Freq: 1.745000000 G Free Run Avg I: 36 dB	ALIGN AUTO Hz Hold:>100/100	03:17:11 P Radio Std: Radio Dev			⊏ ⊡ <mark>∞</mark>
10 dB/div Ref 40.00 dBm	and the second sec	and the first of the second				с	lear Write
10.0 0.00 -10.0 -20.0			N N N N N N N N N N N N N N N N N N N	normal contractory	mineful lan-start of		Average
-30.0							Max Hold
Center 1.74500 GHz Res BW 470 kHz Occupied Bandwidtl		VBW 1.6 MHz Total Power	32.8	Span 5 Swe dBm	0.00 MHz ep 1 ms		Min Hold
18	.029 MHz						Detector Peak▶
Transmit Freq Error	-9.467 kHz	% of OBW P		.00 %		Auto	Man
x dB Bandwidth	19.85 MHz	x dB	-26.	00 dB			
MSG			STATUS	6			

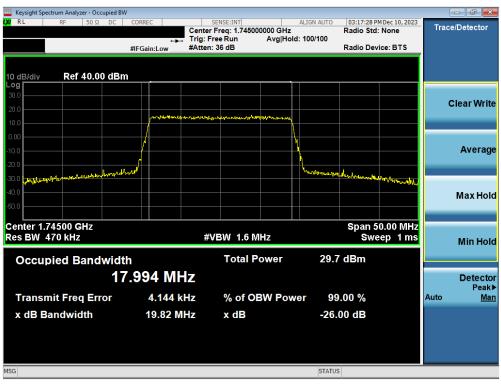
Plot 7-22. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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			1/2 2 00/07/2023



Keysight Spectrum Analyzer - Occupied E	3W						
💢 RL RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO		MDec 10, 2023	Trac	e/Detector
		enter Freq: 1.745000000 ig: Free Run Av	/g Hold:>100/100	Radio Std	None		
		tten: 36 dB	gineral. Teentee	Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dB	m						
30.0							
						(Clear Write
20.0	and the second second second	warman war and a starter					
10.0							
0.00	/		<u> </u> }				
-10.0	/						Average
			Well Manual of	1 .			g .
why news and why and the part of the	Wyll + P		ու ինչություն	Number	wayn mar		
-30.0							
-40.0							Max Hold
-50.0							Maxmona
Center 1.74500 GHz				Span 5	0.00 MHz		
Res BW 470 kHz		#VBW 1.6 MHz		Swe	ep 1 ms		Min Hold
							minnona
Occupied Bandwid	th	Total Pow	er 31.8	3 dBm			
1	8.054 MHz						Detector
	0.004 MITZ						Detector Peak▶
Transmit Freq Error	-32.200 kHz	% of OBW	Power 99	9.00 %		Auto	Man
x dB Bandwidth	19.89 MHz	x dB	-26	00 dB			
	13.03 WHZ	A UD	-20.				
MSG			STATU	s			

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

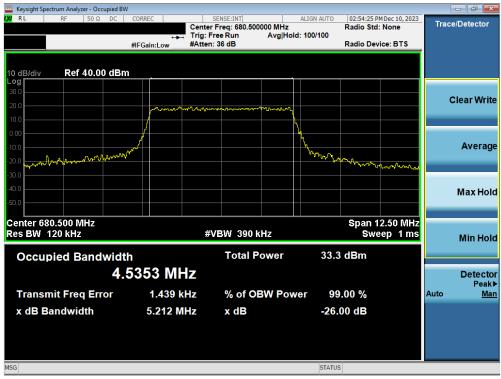


Plot 7-24. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-27. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 64-QAM - Full RB)



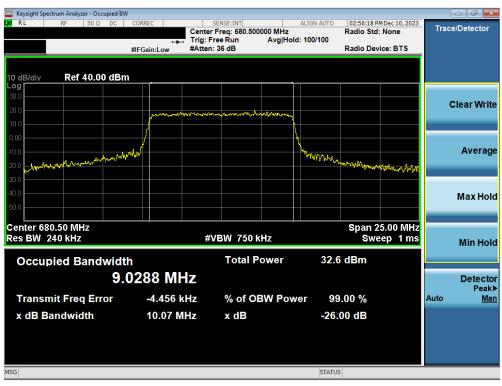
Plot 7-28. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 31 of 344
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Keysight Spectrum Analyzer - Occupied B\					
LX/RL RF 50Ω DC	CORREC	SENSE:INT Center Freg: 680.500	ALIGN AUTO	02:56:10 PM Dec 10 Radio Std: None	,2023 Trace/Detector
		Trig: Free Run #Atten: 36 dB	Avg Hold:>100/100	Radio Device: BT	s
10 dB/div Ref 40.00 dBr	n				
30.0					Clear Write
10.0	munun	berghanghy within straingh	monte		
-10.0	1				Average
-20.0 Hourselans	₩ ~~		We what	mandelation	Partico .
-30.0					Max Hold
-50.0					
Center 680.50 MHz Res BW 240 kHz		#VBW 7501	۲	Span 25.00 l Sweep 1	
Occupied Bandwidt	th	Total P	ower 33.	6 dBm	
9.	0389 MHz	Z			Detector Peak▶
Transmit Freq Error	-4.877 kH	z % of O	BW Power 9	9.00 %	Auto <u>Man</u>
x dB Bandwidth	10.02 MH	z xdB	-26	.00 dB	
MSG			STATU	JS	

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



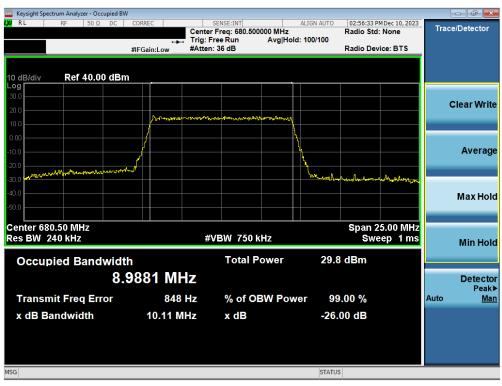
Plot 7-30. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 32 of 344
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🔤 Keysight Spectrum Analyzer - Occupied B					
ΙΧΙ R E RF 50 Ω DC		SENSE:INT Center Freq: 680.500 Trig: Free Run	ALIGN AUTO 000 MHz Avg Hold: 100/100	02:56:26 PM Dec 10, 2023 Radio Std: None	Trace/Detector
	#IFGain:Low	#Atten: 36 dB		Radio Device: BTS	_
10 dB/div Ref 40.00 dBr	m				
20.0	Duran Browned	Weetwart of the galant of the second			Clear Write
10.0					
-10.0			۱. N		Average
-20.0 . marker marker for the marker	uhr4 ^{0″}		heart y ly for ally	Mark Markan Angle Angle	·····g·
-30.0				and a series builds the for	
-40.0					Max Hold
Center 680.50 MHz				On on 25 00 MU	
Res BW 240 kHz		#VBW 750 k	Hz	Span 25.00 MHz Sweep 1 ms	
Occupied Bandwid	th	Total P	ower 31.	7 dBm	
9.	0288 MH	z			Detector Peak▶
Transmit Freq Error	-5.296 ki	Hz % of OE	BW Power 9	9.00 %	Auto <u>Man</u>
x dB Bandwidth	10.10 MH	lz x dB	-26	.00 dB	
MSG			STAT	JS	

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



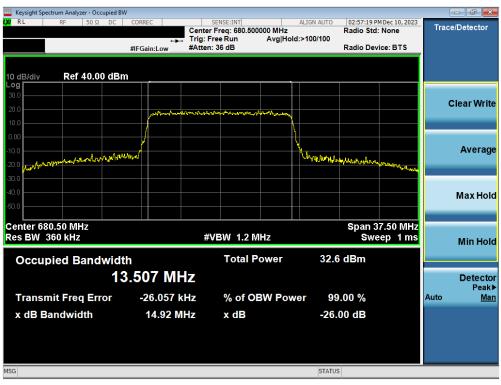
Plot 7-32. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 33 of 344
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			V2 2 09/07/2023



Keysight Spectrum Analyzer - Occupied						
X RL RF 50Ω DC		SENSE:INT Iter Freq: 680.500000 MH: I: Free Run Avg F	ALIGN AUTO z fold: 100/100	Radio Std:	1Dec 10, 2023 None	Trace/Detector
		ten: 36 dB		Radio Devi	ice: BTS	
10 dB/div Ref 40.00 dE	3m					
Log 30.0						
20.0	alanga landa ana farana far	aut Materia and a contraction of the second s	~			Clear Write
10.0						
-10.0			h ل			Averag
-20.0 Monthealenter manunger	hathat		White	human	March Witherstood	·····y
-30.0						
-40.0						Max Hole
Center 680.50 MHz				Snop 2	7.50 MHz	
Res BW 360 kHz		#VBW 1.2 MHz			ep 1 ms	Min Hole
Occupied Bandwig	lth	Total Power	33.	5 dBm		
1	3.511 MHz					Detecto Peak
Transmit Freq Error	-18.141 kHz	% of OBW Po	ower 99	9.00 %		Auto <u>Mar</u>
x dB Bandwidth	14.89 MHz	x dB	-26.	.00 dB		
MSG			STATU	S		

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



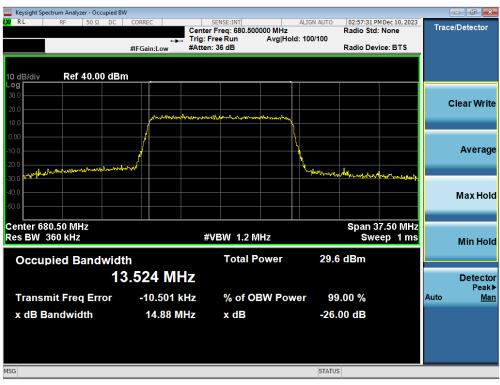
Plot 7-34. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 34 of 344
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Keysight Spectrum Analyz	zer - Occu	upied BW										_	- ¢ ×
🗶 RL RF	50 Ω	DC (CORRE	C		NSE:INT	0000 MHz	ALIG	SN AUTO	02:57:24 P Radio Std	MDec 10, 2023	Trac	e/Detector
		#	IFGai	n:Low	The second second	e Run	Avg Hol	ld: 10	0/100	Radio Dev			
10 dB/div Ref	40.00	dBm				1							
30.0 20.0												(Clear Write
10.0				water	w wy	- Amman	monthlything					_	
-10.0			ſ										Average
-20.0	Antra	MMM	M					10 14 14	₽«₽₽₽₽₽	Mitter	hometheritory		Average
-30.0													Max Hole
-50.0													
Center 680.50 MH Res BW 360 kHz					#VI	BW 1.2 I	MHz				7.50 MHz ep 1 ms		Min Hold
Occupied B	and	width				Total I	Power		31.6	dBm			
			49	2 M⊦	z								Detector Peak
Transmit Free	q Erro	or	-20	0.430 k	Hz	% of C	BW Pov	ver	99	.00 %		Auto	Ma
x dB Bandwid	lth		1	4.92 M	Hz	x dB			-26.	00 dB			
ISG									STATUS				

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



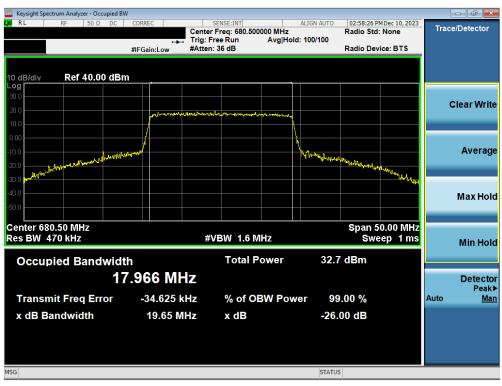
Plot 7-36. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 35 of 344
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			1/2 2 09/07/2023



Keysight Spectrum Analyzer - Occupied BW					-	d ×
LXIRL RF 50Ω DC		SENSE:INT er Freq: 680.500000 MHz	ALIGN AUTO	02:58:21 PM Dec 10, 2023 Radio Std: None	Trace/D	etector
		Free Run Avg Ho en: 36 dB	ld: 100/100	Radio Device: BTS		
	an ounicon				ī	
10 dB/div Ref 40.00 dBm						
Log 30.0						
20.0		egilited work advanta Caledo Patrola a			Cle	ar Write
10.0	- Walynson and the same	All and a second s				_
0.00			\			
-10.0	1 www.		Maker			Average
-20.0			Monteringer	m des alguerters		
-30.0				Mary Stranger		
-40.0					м	lax Hold
-50.0						
Center 680.50 MHz				Span 50.00 MH		
Res BW 470 kHz		#VBW 1.6 MHz		Sweep 1 ms	N	/lin Hold
Occupied Bandwidt	า	Total Power	33.5	dBm		
	.979 MHz					Detector
						Peak▶
Transmit Freq Error	-7.660 kHz	% of OBW Pov		.00 %	Auto	Man
x dB Bandwidth	19.96 MHz	x dB	-26.	00 dB		
MSG			STATUS			
1130			STATUS			

Plot 7-37. Occupied Bandwidth Plot (LTE Band 71 - 20MHz QPSK - Full RB)



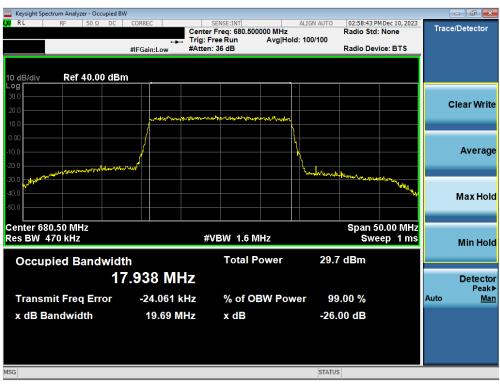
Plot 7-38. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 36 of 344
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Plot 7-39. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 64-QAM - Full RB)

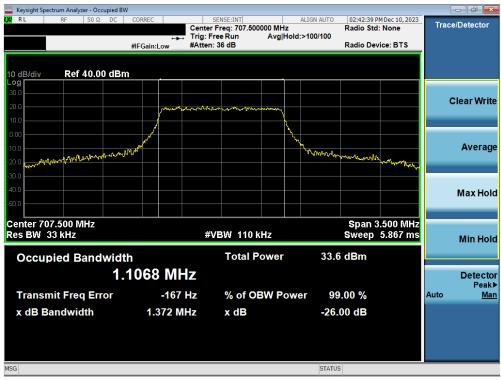


Plot 7-40. Occupied Bandwidth Plot (LTE Band 71 - 20MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 37 of 344
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LTE Band 12/17



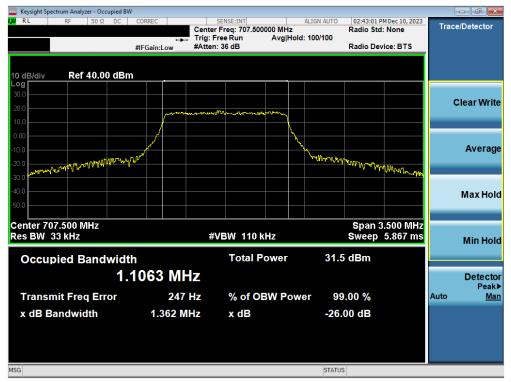
Plot 7-41. Occupied Bandwidth Plot (LTE Band 12 - 1.4MHz QPSK - Full RB)



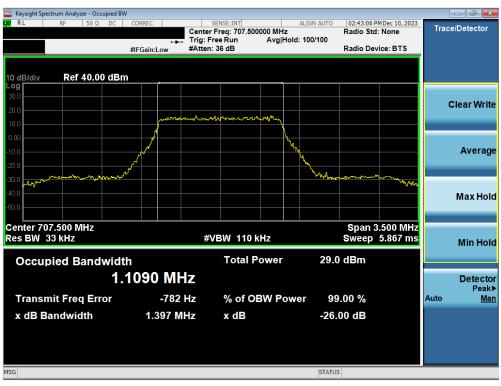
Plot 7-42. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 38 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 30 01 344
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Plot 7-43. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 64-QAM - Full RB)



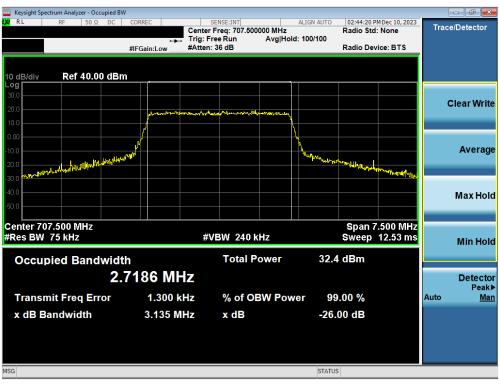
Plot 7-44. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 39 of 344
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	•		V2.2 09/07/2023





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



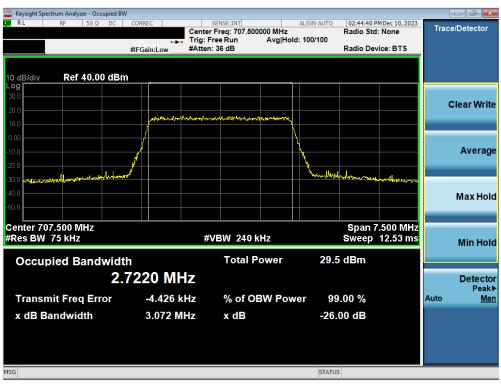
Plot 7-46. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 40 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 40 01 344
,			V/2 2 09/07/2023



Keysight Spectrum Analyzer - Occupied B								
LX RL RF 50 Ω DC		SENSE:INT Center Freq: 707.500 Trig: Free Run		LIGN AUTO	02:44:28 P Radio Std	MDec 10, 2023 : None	Trace	e/Detector
	#IFGain:Low	#Atten: 36 dB			Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dBr	n							
Log 30.0 20.0							c	Clear Write
10.0	minner		-Astro-Astro					
0.00	/		L L					
-10.0				<u> </u>				Average
-20.0	N ^{NV}			Viewangayer	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	warwarityatyay		_
-40.0								
-50.0								Max Hold
Center 707.500 MHz #Res BW 75 kHz		#VBW 240 k	Hz			.500 MHz 12.53 ms		Min Hold
Occupied Bandwid	h	Total P	ower	31.7	dBm			
	7166 MH	Z						Detector Peak▶
Transmit Freq Error	735	Hz % of OE	BW Powe	r 99.	.00 %		Auto	Man
x dB Bandwidth	3.075 MI	Hz xdB		-26.0)0 dB			
					·			
MSG				STATUS				

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: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 41 of 344
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Keysight Spectrum Analyzer - Occupied BV					
LX/ RL RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO	02:45:05 PM Dec 10, 20 Radio Std: None	Trace/Detector
	↔ #IFGain:Low	Trig: Free Run #Atten: 36 dB	Avg Hold: 100/100	Radio Device: BTS	
	#IFGaIN:LOW	#Atten: 00 dB		Radio Device. D13	-
10 dB/div Ref 40.00 dBr	2				
30.0					Clear Write
20.0	mm	man man	mmml		Clear Write
10.0					
0.00	1		<u>├</u>		
-10.0	NDrud		han		Average
-20.0 month man and				- House and a start and a star	A
-30.0					
-40.0					Max Hold
-50.0					
Center 707.500 MHz				Span 12.50 MH	
Res BW 120 kHz		#VBW 390 k	Hz	Sweep 1 m	S Min Hold
Occupied Bandwidt	h	Total P	ower 33.	7 dBm	
	 5311 MH				Deter to
4.	55 I I MIT	Z			Detector Peak▶
Transmit Freq Error	3.271 ki	Hz % of Ol	BW Power 9	9.00 %	Auto <u>Man</u>
x dB Bandwidth	5.259 MI	Hz x dB	-26	.00 dB	
MSG			STATU	JS	

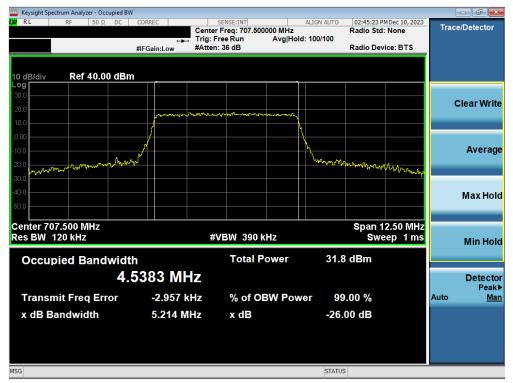
Plot 7-49. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz QPSK - Full RB)

Keysight Spectrum Analyzer - Occupied BW				1			- F 💌
K RL RF 50Ω DC	🛶 Trig	SENSE:INT Iter Freq: 707.500000 MH J: Free Run Avg t Iten: 36 dB	ALIGN AUTO z Hold: 100/100	02:45:14 Pl Radio Std: Radio Dev		Trace/I	Detector
10 dB/div Ref 40.00 dBm							
20.0	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~			СІ	ear Write
20.0 Manual May Report Marked Mark	Nr.		Mrran An	han may	and a for the second		Averag
40.0							Max Hol
Center 707.500 MHz Res BW 120 kHz		#VBW 390 kHz		Swe	2.50 MHz ep 1 ms		Min Hol
Occupied Bandwidt	^h 5245 MHz	Total Power	32.8	3 dBm			Detecto Peak
Transmit Freq Error	-1.713 kHz	% of OBW P	ower 99	.00 %		Auto	Mai
x dB Bandwidth	5.130 MHz	x dB	-26.	00 dB			
ISG			STATUS				

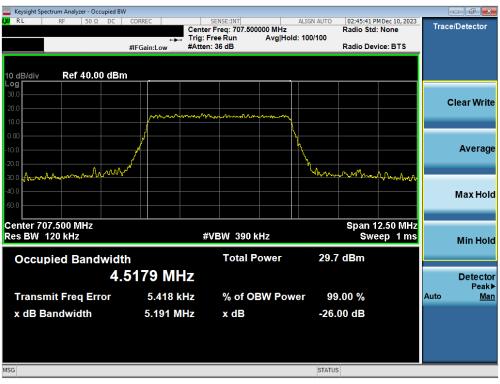
Plot 7-50. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	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)



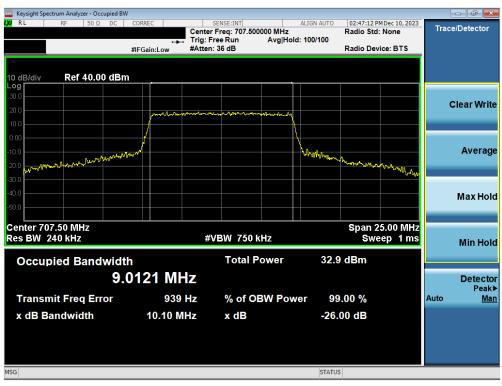
Plot 7-52. Occupied Bandwidth Plot (LTE Band 12/17 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 43 of 344
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Plot 7-53. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz QPSK - Full RB)



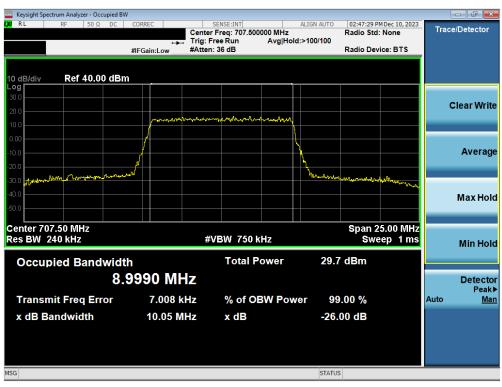
Plot 7-54. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element 🤤	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 44 of 344
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Plot 7-55. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 64-QAM - Full RB)

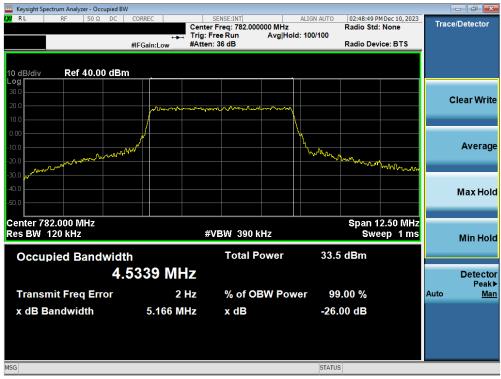


Plot 7-56. Occupied Bandwidth Plot (LTE Band 12/17 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 45 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 45 01 544
			V2 2 09/07/2023



LTE Band 13



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



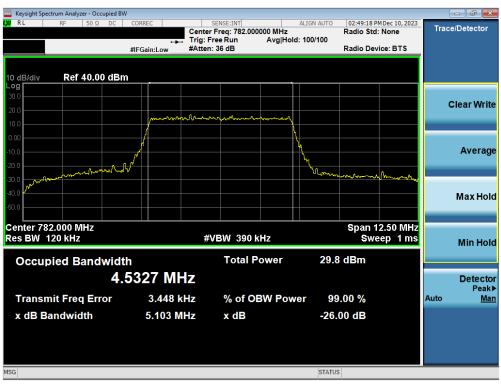
Plot 7-58. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 46 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 40 01 344
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Plot 7-59. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 64-QAM - Full RB)



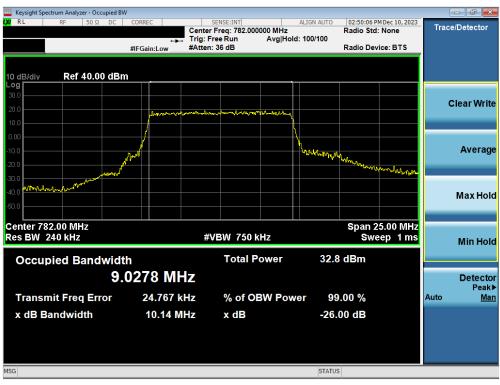
Plot 7-60. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 47 of 344
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<u>-</u>		·	V2.2 09/07/2023



Keysight Spectrum Analyzer - Occupied BW							×
ΙΧΙ RE 50 Ω DC		SENSE:INT Center Freq: 782.000 Trig: Free Run	ALIGN AU 0000 MHz Avg Hold: 100/10	Radio Std	MDec 10, 2023 None	Trace/Detecto	or
		#Atten: 36 dB		Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dBn	า						
Log 30.0							
20.0	the second second	- Martraty / Mart march 10	han han han had been			Clear W	rite
10.0							
-10.0						Aver	ane
-20.0			pring y		maria	Aven	aye
-30.0					mmulpera		
-40.0 myrhan -40.0						MaxH	lold
-50.0							
Center 782.00 MHz Res BW 240 kHz		#VBW 750 k	(H7		5.00 MHz ep 1 ms		
						Min H	old
Occupied Bandwidt		Total P	ower 3	33.5 dBm			
9.	0101 MH	Z				Deteo	ctor ak▶
Transmit Freq Error	3.470 kH	z % of O	BW Power	99.00 %		Auto I	Man
x dB Bandwidth	10.01 MH	z xdB	-	26.00 dB			
MSG			S	TATUS			

Plot 7-61. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB)



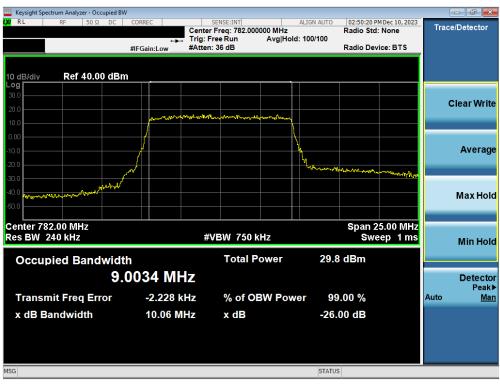
Plot 7-62. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 48 of 344
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Plot 7-63. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 64-QAM - Full RB)

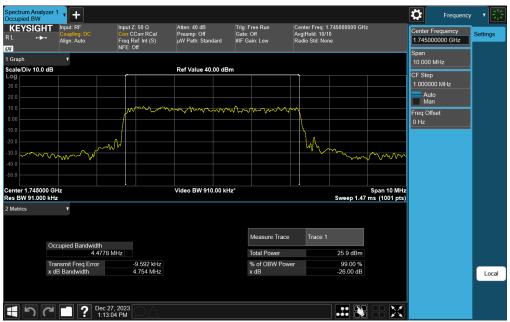


Plot 7-64. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 49 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 49 01 344
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NR Band n66



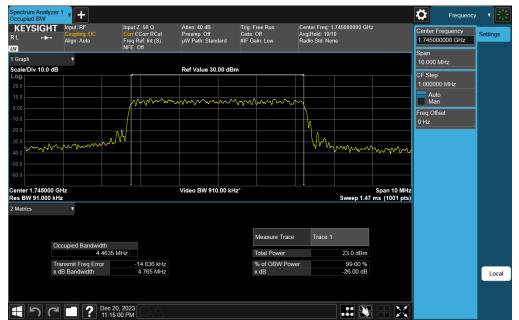
Plot 7-65. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



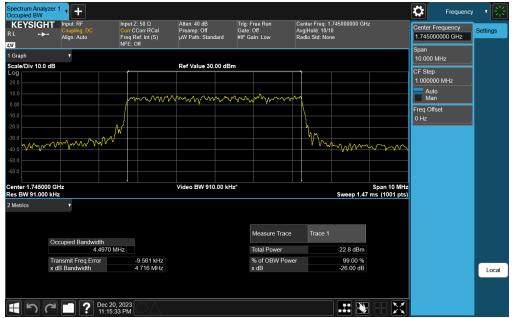
Plot 7-66. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 50 of 344
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Plot 7-67. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB)



Plot 7-68. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-69. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 256QAM - Full RB)



Plot 7-70. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)



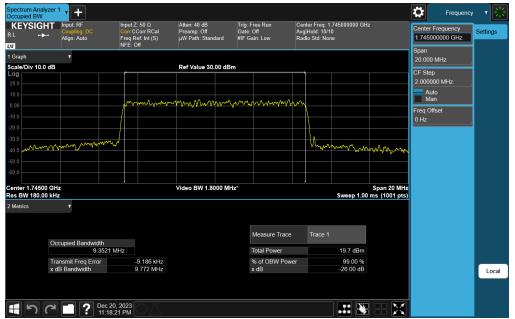
Plot 7-72. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 53 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 55 01 544
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Plot 7-73. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 64QAM - Full RB)



Plot 7-74. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 54 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 54 01 544
			1/2 2 09/07/2023





Plot 7-75. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



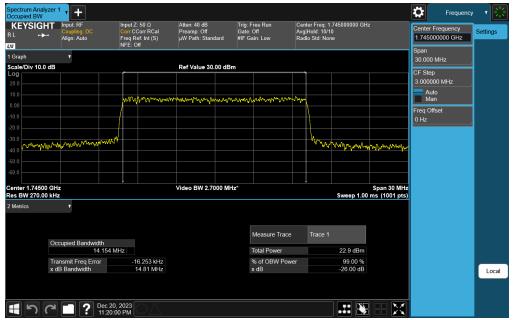
Plot 7-76. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 55 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 55 01 344
			V2 2 09/07/2023



KEYSIG ∟ → 1	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 40 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Avg Ho	Freq: 1.74500 Id: 10/10 Std: None	0000 GHz	Center Frequency 1.745000000 GHz	Settings
Graph cale/Div 10.0	T C C C C C C C C C C C C C C C C C C C		Ref Value 30.00 d	Der				Span 30.000 MHz	
og			Ref Value 30.00 d	bm				CF Step 3.000000 MHz	
		om as house	Nerrowald on Mr. b	an war	en land			Auto Man	
				· · · · · · · · · · · · · · · · · · ·				Freq Offset 0 Hz	
0.0 0.0	www.www.www.	~				hayyaya	malenn	/w	
0.0 0.0									
nter 1.7450			Video BW 2.7000 M	MHz*		Swe	Span 30 / ep 1.00 ms (1001		
Metrics	v								
				Measure Tra	ice T	race 1			
	Occupied Bandwidth 14.111	1 MHz		Total Power		23	4 dBm		
	Transmit Freq Error x dB Bandwidth	21.171 kHz 14.80 MHz		% of OBW P x dB	ower		9.00 % .00 dB		Loca

Plot 7-77. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB)



Plot 7-78. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 56 of 344	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 50 01 344	
			\/2 2 09/07/2023	





Plot 7-79. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 256QAM - Full RB)



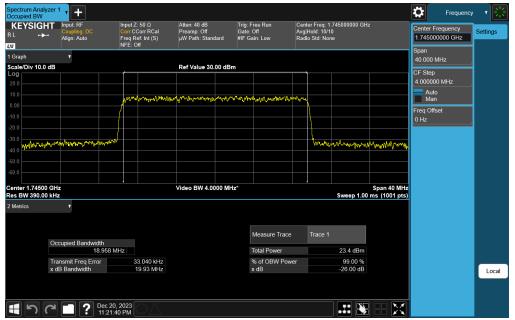
Plot 7-80. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 57 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 57 01 344
			1/2 2 09/07/2023



KEYSIGI ∟ ↔ 1	Coupling: DC	Input Z: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 40 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Avgl	er Freq: 1 Hold: 10/1 o Std: Nor			Center Frequency 1.745000000 GHz Span	Settings
Graph cale/Div 10.0	v dB		Ref Value 30.00 dB						40.000 MHz	
									CF Step 4.000000 MHz	
		Murcharman	manthprogent	tale and the form	unter and				Auto Man	
.0									Freq Offset 0 Hz	
	work to ache to appendic and a share and a	1				hanney	Jerdron March	Mannanan		
nter 1.7450 s BW 390.0			Video BW 4.0000 Mł	Hz*			Sweep 1.00	Span 40 MHz ms (1001 pts)		
Aetrics	•									
				Measure Tra	ice	Trace 1				
	Occupied Bandwidth 18.958	MHz		Total Power			23.5 dBm			
	Transmit Freq Error x dB Bandwidth	23.467 kHz 19.94 MHz		% of OBW P x dB	ower		99.00 % -26.00 dB			Loca

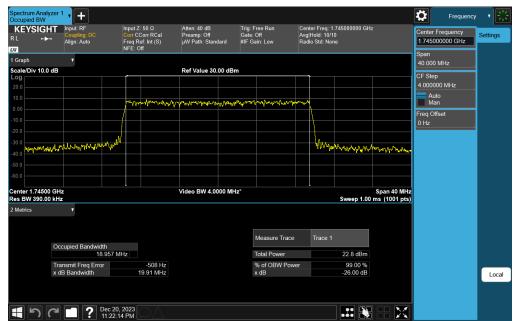
Plot 7-81. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB)



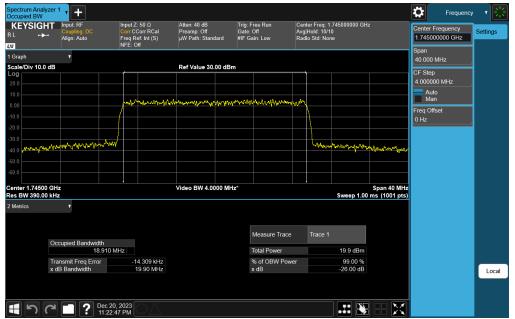
Plot 7-82. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 58 of 344	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 56 01 344	
			V/2 2 09/07/2023	





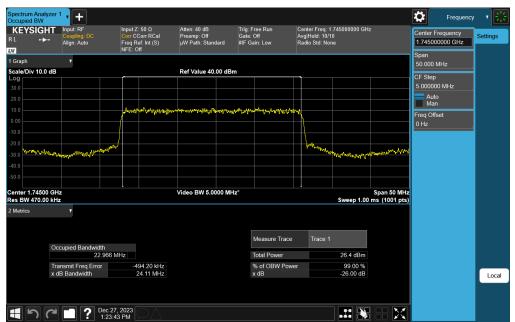
Plot 7-83. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 64QAM - Full RB)



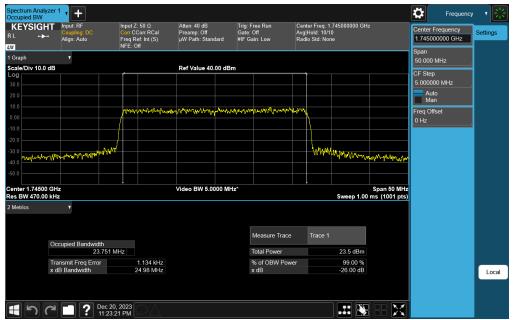
Plot 7-84. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 59 of 344	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 59 01 344	
			1/2 2 09/07/2023	





Plot 7-85. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



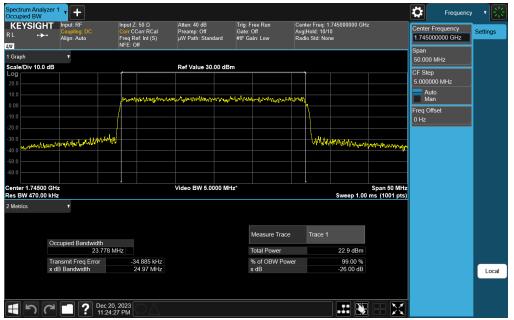
Plot 7-86. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 60 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 60 01 344
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Plot 7-87. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 16QAM - Full RB)



Plot 7-88. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 61 of 344
1C2311270070-09.BCG	09.BCG 10/1/2023 - 3/19/2024 Tablet Device		Fage 01 01 344
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	HT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 40 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Avgl	ter Freq: 1.745000 Hold: 10/10 io Std: None	0000 GHz	Center Frequency 1.745000000 GHz Span	Settings
Graph cale/Div 10.0	▼ 0 dB		Ref Value 30.00 dB	m				50.000 MHz	
								CF Step 5.000000 MHz	
								Auto Man	
00			Alexandra and the second second	**************************************	Annak wa			Freq Offset 0 Hz	
	your the the the second	4				monor	-hann many horizonal		
								-	
nter 1.7450 s BW 470.0		<u> </u>	Video BW 5.0000 Mł	Hz*		Swe	Span 50 MHz ep 1.00 ms (1001 pts)		
Metrics	,								
	Occupied Bandwidth			Measure Tra	ice	Trace 1			
		MHz		Total Power		20.	0 dBm		
	23.809			% of OBW P	ower		9.00 %		
	Transmit Freq Error x dB Bandwidth	22.029 kHz 24.97 MHz		x dB		-26	.00 dB		Loca

Plot 7-89. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 256QAM - Full RB)



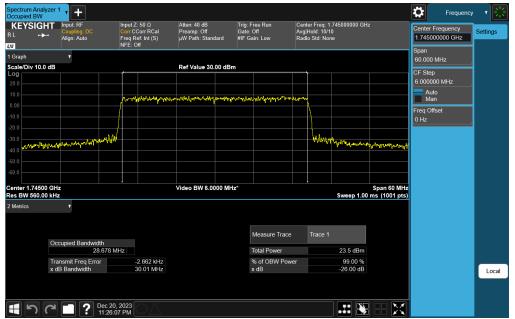
Plot 7-90. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 62 of 344	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 02 01 344	
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KEYSIG ∟ → 1	Coupling: DC	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 40 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Avg	ter Freq: 1 Hold: 10/1 io Std: Nor			Center Frequency 1.745000000 GHz Span	Settings
Graph cale/Div 10.0	v dB		Ref Value 30.00 dl	Bm					60.000 MHz	
									CF Step 6.000000 MHz	
		Mary Market Ang	what a parameter		www.				Auto Man	
									Freq Offset 0 Hz	
0.0 0.0	eng/min-adductioner/miller/bd/1947	/				hiling	yunanya wanad	a for the form		
0.0										
nter 1.7450			Video BW 6.0000 N	Hz*			Sweep 1.00	Span 60 MHz ms (1001 pts)		
Netrics	Ŧ									
	Occupied Bandwidth			Measure Tra	ace	Trace 1				
	28.626	MHz		Total Power			23.3 dBm			
	Transmit Freq Error x dB Bandwidth	-2.254 kHz 30.02 MHz		% of OBW F x dB	ower		99.00 % -26.00 dB			Loca

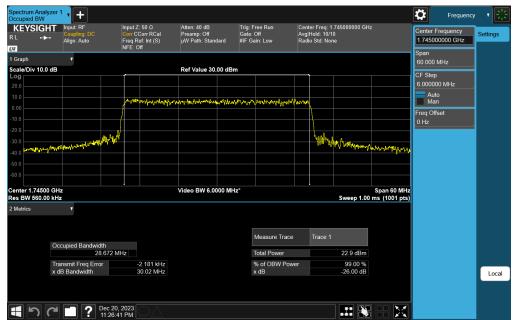
Plot 7-91. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB)



Plot 7-92. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 62 of 244	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Page 63 of 344	
		-	V2 2 09/07/2023	





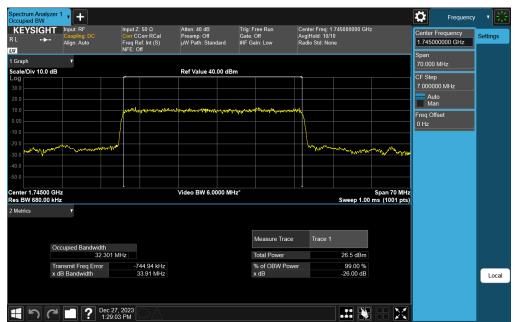
Plot 7-93. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 64QAM - Full RB)



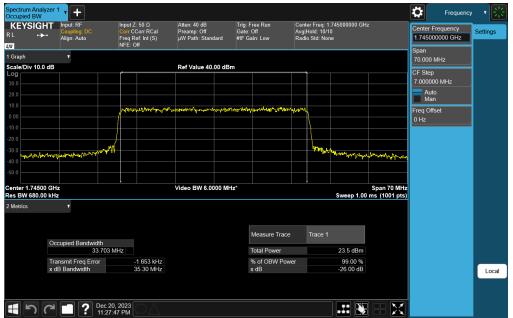
Plot 7-94. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 64 of 344	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Faye 04 01 344	
			1/2 2 09/07/2023	





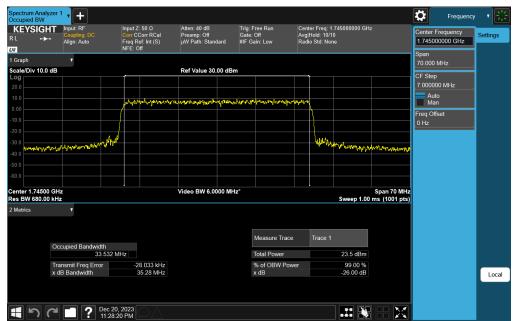
Plot 7-95. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



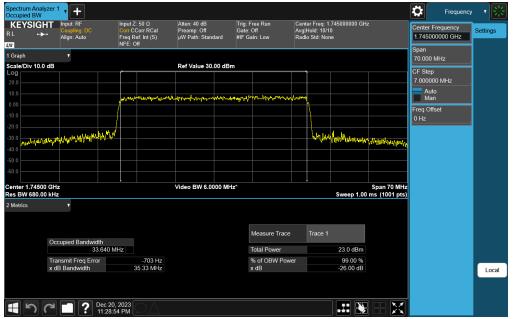
Plot 7-96. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 65 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 65 01 344
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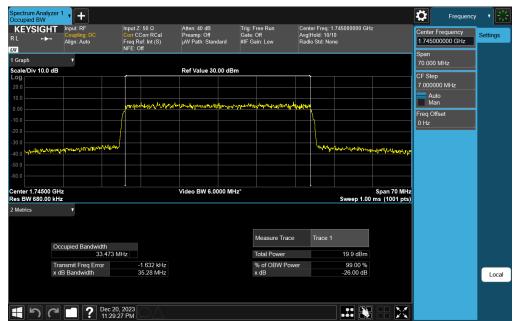
Plot 7-97. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM 16QAM - Full RB)



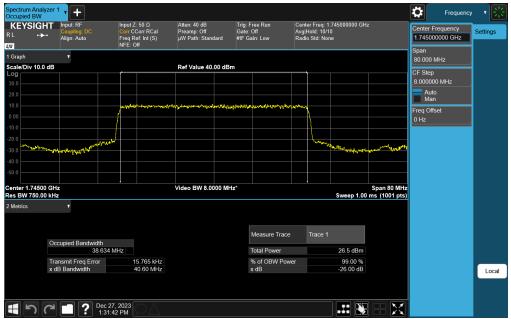
Plot 7-98. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 66 of 344
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Plot 7-99. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM 256QAM - Full RB)



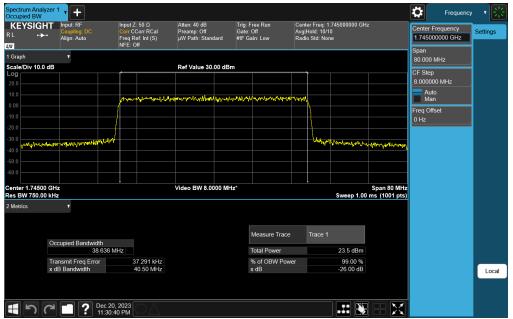
Plot 7-100. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 67 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 07 01 344
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KEYSIG ∟ → 1	Coupling: DC	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 40 dB Preamp: Off μW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Avg H	er Freq: 1.745000 Iold: 10/10 • Std: None	0000 GHz	Center Frequency 1.745000000 GHz Span	Settings
Graph cale/Div 10.0	T III		Ref Value 30.00 dB	•				80.000 MHz	
og			Kei value 30.00 ub					CF Step 8.000000 MHz	
		at first alwayshipsty at the share	manamana	u hahadaan noor	hadan atta			Auto Man	
00 .0				ek o mi ce bec h .				Freq Offset 0 Hz	
	mananalite					hunmon	ngh dhang dhang ng mang	t	
nter 1.7450 s BW 750.0			Video BW 8.0000 M	Hz*		Swe	Span 80 MHz ep 1.00 ms (1001 pts)		
Metrics	۲								
				Measure Tra	ace	Trace 1			
	Occupied Bandwidth 38.764	MHz		Total Power		23.	5 dBm		
	Transmit Freq Error x dB Bandwidth	-6.569 kHz 40.50 MHz		% of OBW F x dB	ower		9.00 % .00 dB		Loca

Plot 7-101. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB)



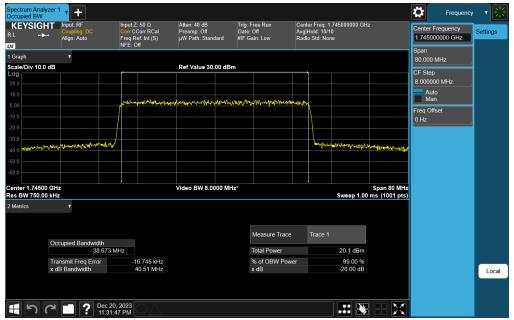
Plot 7-102. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 68 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 00 01 344
			1/2 2 09/07/2023



KEYSIG ∟ ⊶ 1	Coupling: DC			Corr RCal ef: Int (S)	Atten: 40 dB Preamp: Off μW Path: Stan		Trig: Free Run Gate: Off #IF Gain: Low	Avgl	ter Freq: 1 Hold: 10/1 io Std: Nor		z	Center Frequency 1.745000000 GHz Span	Settings
Graph cale/Div 10.	▼ 0 dB				Ref Value 30	00 dBm						80.000 MHz	
			ſ									CF Step 8.000000 MHz	
			wayn	en Albin tend of	manufi the collete	a Milli ka Jaos	uphilophanyan tah	untet dur Mil / Mi				Auto Man	
								ar 141. 941.				Freq Offset 0 Hz	
0.0 0.0 0.0	www.yirythaytywl/wykJtythy	milie							landar	moneythe	~ ^{qh} ullyhhedge,j		
D.0 D.0 D.0													
enter 1.7450 es BW 750.0					Video BW 8.0	000 MHz				Sweep 1.00	Span 80 MHz ms (1001 pts)		
Metrics	T												
	Occupied Bandwidt	ib.					Measure T	Trace	Trace 1				
			lz				Total Powe	er		23.0 dBm			
	Transmit Freq Error x dB Bandwidth	r		1.088 kHz 10.51 MHz			% of OBW x dB	Power		99.00 % -26.00 dB			Loca

Plot 7-103. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 64QAM - Full RB)



Plot 7-104. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 256QAM - Full RB)

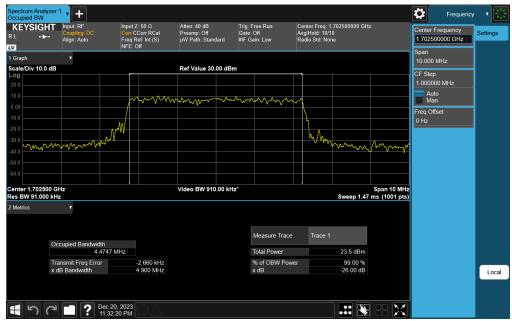
FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 09 01 344
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NR Band n70



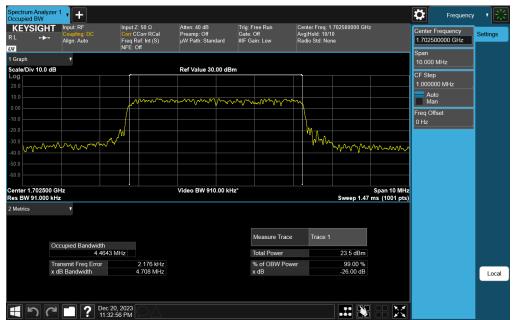
Plot 7-105. Occupied Bandwidth Plot (NR Band n70 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB)



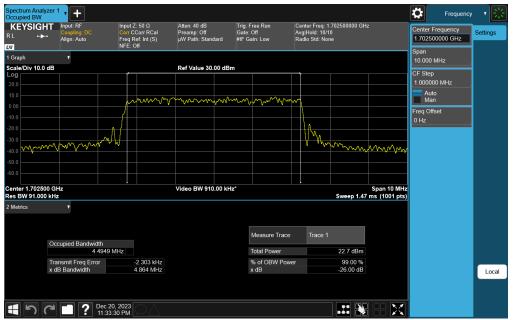
Plot 7-106. Occupied Bandwidth Plot (NR Band n70 - 5MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 70 of 344	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	3/19/2024 Tablet Device		
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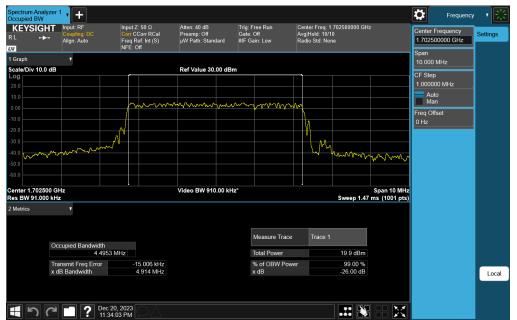
Plot 7-107. Occupied Bandwidth Plot (NR Band n70 - 5MHz CP-OFDM 16-QAM - Full RB)



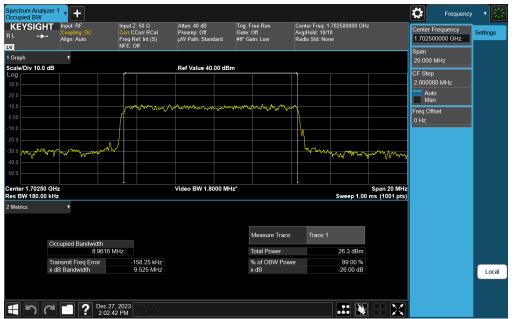
Plot 7-108. Occupied Bandwidth Plot (NR Band n70 - 5MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 71 of 344	
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Plot 7-109. Occupied Bandwidth Plot (NR Band n70 - 5MHz CP-OFDM 256-QAM - Full RB)



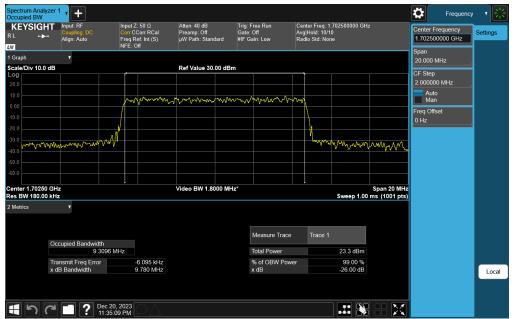
Plot 7-110. Occupied Bandwidth Plot (NR Band n70 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 72 of 344	
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	Fage 72 01 344	
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	HT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	Atten: 40 dB Preamp: Off µW Path: Standard	Trig: Free Run Gate: Off #IF Gain: Low	Avg H	r Freq: 1. Iold: 10/10 Std: Non			Center Frequency 1.702500000 GHz	Settings
Graph cale/Div 10.0	T A R		Ref Value 30.00 df	2					Span 20.000 MHz	
og									CF Step 2.000000 MHz	
		m nm	Mar Marine Marine	an Markathan A. A.A.	mm				Auto Man	
									Freq Offset 0 Hz	
0.0 0.0 0.0	mm.	W				W~~~	Maryan	Markandory		
0.0										
enter 1.7025 es BW 180.0			Video BW 1.8000 N	Hz*			Sweep 1.00	Span 20 MHz ms (1001 pts)		
Metrics	۲									
	Occupied Bandwidth			Measure Tra	ice	Trace 1				
		5 MHz		Total Power			23.2 dBm			
	Transmit Freq Error x dB Bandwidth	-9.616 kHz 9.770 MHz		% of OBW P x dB	ower		99.00 % -26.00 dB			Local

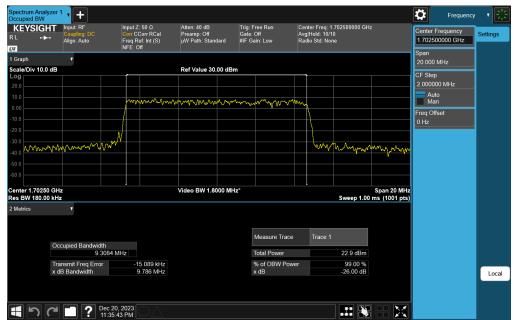
Plot 7-111. Occupied Bandwidth Plot (NR Band n70 - 10MHz CP-OFDM QPSK - Full RB)



Plot 7-112. Occupied Bandwidth Plot (NR Band n70 - 10MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2926	element)	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 73 of 344
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,			V/2 2 09/07/2023





Plot 7-113. Occupied Bandwidth Plot (NR Band n70 - 10MHz CP-OFDM 64-QAM - Full RB)



Plot 7-114. Occupied Bandwidth Plot (NR Band n70 - 10MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2926	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 74 of 344
1C2311270070-09.BCG	10/1/2023 - 3/19/2024	Tablet Device	
			V2 2 09/07/2023