

Element Materials Technology

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MEASUREMENT REPORT **PART 27**

Applicant Name:

Apple Inc.

One Apple Park Way Cupertino, CA 95014

United States

Date of Testing:

10/1/2023 - 04/03/2024 **Test Report Issue Date:**

4/2/2024

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.: 1C2311270068-10-R1.BCG

FCC ID: **BCGA2837**

Applicant Name: Apple Inc.

Application Type: Certification Model: A2837, A3006 **EUT Type: Tablet Device**

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part: 27

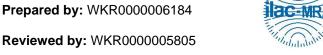
Test Procedure(s): ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01 v03r01

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: 1C23311270068-10-R1.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose accordingly.

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

Executive Vice President







FCC ID: BCGA2837	element element	lement PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 1 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	rage 1 01 309



TABLE OF CONTENTS

1.0	INTF	RODUCTION	7
	1.1	Scope	7
	1.2	Element Materials Technology Test Location	7
	1.3	Test Facility / Accreditations	7
2.0	PRO	DUCT INFORMATION	8
	2.1	Equipment Description	8
	2.2	Device Capabilities	8
	2.3	Antenna Description	9
	2.4	Test Support Equipment	9
	2.5	Test Configuration	10
	2.6	Software and Firmware	10
	2.7	EMI Suppression Device(s)/Modifications	10
3.0	DES	CRIPTION OF TESTS	11
	3.1	Evaluation Procedure	11
	3.2	Radiated Spurious Emissions	11
4.0	MEA	SUREMENT UNCERTAINTY	12
5.0	TES	T EQUIPMENT CALIBRATION DATA	13
6.0	SAM	IPLE CALCULATIONS	14
7.0	TES	T RESULTS	15
	7.1	Summary	15
	7.2	Occupied Bandwidth	17
	7.3	Spurious and Harmonic Emissions at Antenna Terminal	95
	7.4	Band Edge Emissions at Antenna Terminal	137
	7.5	Additional Maximum Power Reduction (A-MPR)	479
	7.6	Radiated Power (EIRP)	481
	7.7	Radiated Spurious Emissions	519
	7.8	Frequency Stability / Temperature Variation	562
8.0	CON	ICLUSION	569

FCC ID: BCGA2837	element element	ement PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 2 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 2 01 309





PART 27 MEASUREMENT REPORT



					EIRP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		QPSK	2307.5 - 2312.5	4.5423	0.224	23.50	4M54G7W
	5 MHz	16QAM	2307.5 - 2312.5	4.5504	0.177	22.49	4M55D7W
		64QAM 256QAM	2307.5 - 2312.5 2307.5 - 2312.5	4.5334 4.5401	0.141 0.072	21.50 18.57	4M53D7W 4M54D7W
LTE Band 30		QPSK	2307.5 - 2312.5	9.0414	0.072	23.37	9M04G7W
		16QAM	2310	9.0496	0.178	22.50	9M05D7W
	10MHz	64QAM	2310	9.0578	0.141	21.50	9M06D7W
		256QAM	2310	9.0523	0.072	18.57	9M05D7W
		QPSK	2502.5 - 2567.5	4.5432	0.479	26.80	4M54G7W
	5 MHz	16QAM 64QAM	2502.5 - 2567.5 2502.5 - 2567.5	4.5420 4.5357	0.377 0.300	25.76 24.77	4M54D7W
		256QAM	2502.5 - 2567.5	4.5357	0.300	21.82	4M54D7W 4M54D7W
		QPSK	2505 - 2565	9.0552	0.479	26.80	9M06G7W
	40.041	16QAM	2505 - 2565	9.0704	0.372	25.71	9M07D7W
	10 MHz	64QAM	2505 - 2565	9.0536	0.301	24.79	9M05D7W
LTE Band 7		256QAM	2505 - 2565	9.0448	0.153	21.85	9M04D7W
ETE Band 7		QPSK	2507.5 - 2562.5	13.5790	0.474	26.76	13M6G7W
	15 MHz	16QAM	2507.5 - 2562.5	13.5880	0.380	25.80	13M6D7W
		64QAM 256QAM	2507.5 - 2562.5 2507.5 - 2562.5	13.5590 13.5500	0.300 0.155	24.77 21.89	13M6D7W 13M6D7W
		QPSK	2507.5 - 2562.5 2510 - 2560	18.0620	0.155	26.80	18M1G7W
		16QAM	2510 - 2560	18.0550	0.479	25.78	18M1D7W
	20 MHz	64QAM	2510 - 2560	18.0670	0.302	24.80	18M1D7W
		256QAM	2510 - 2560	18.0540	0.155	21.89	18M1D7W
		QPSK	2498.5 - 2687.5	4.5329	1.072	30.30	4M53G7W
	5 MHz	16QAM	2498.5 - 2687.5	4.5437	0.847	29.28	4M54D7W
	O WIT IZ	64QAM	2498.5 - 2687.5	4.5446	0.676	28.30	4M54D7W
		256QAM	2498.5 - 2687.5	4.5343	0.343	25.35	4M53D7W 9M06G7W
	10 MHz	QPSK 16QAM	2501 - 2685 2501 - 2685	9.0617 9.0643	1.072 0.851	30.30 29.30	9M06D7W
		64QAM	2501 - 2685	9.0482	0.662	28.21	9M05D7W
		256QAM	2501 - 2685	9.0507	0.345	25.38	9M05D7W
LTE Band 41(PC2)		QPSK	2503.5 - 2682.5	13.5570	1.072	30.30	13M6G7W
	15 MHz	16QAM	2503.5 - 2682.5	13.5560	0.853	29.31	13M6D7W
	13 WI 12	64QAM	2503.5 - 2682.5	13.5300	0.675	28.29	13M5D7W
		256QAM	2503.5 - 2682.5	13.5450	0.347	25.40	13M5D7W
		QPSK	2506 - 2680	18.0130	1.072	30.30	18M0G7W
	20 MHz	16QAM 64QAM	2506 - 2680 2506 - 2680	18.1320 18.0130	0.853 0.668	29.31 28.25	18M1D7W 18M0D7W
		256QAM	2506 - 2680	18.0110	0.348	25.41	18M0D7W
		QPSK	2498.5 - 2687.5	4.5329	0.537	27.30	4M53G7W
	E MU-	16QAM	2498.5 - 2687.5	4.5437	0.428	26.31	4M54D7W
	5 MHz	64QAM	2498.5 - 2687.5	4.5446	0.339	25.30	4M54D7W
		256QAM	2498.5 - 2687.5	4.5343	0.417	26.20	4M53D7W
		QPSK	2501 - 2685	9.0617	0.537	27.30	9M06G7W
	10 MHz	16QAM	2501 - 2685	9.0643	0.428	26.31 25.09	9M06D7W
		64QAM 256QAM	2501 - 2685 2501 - 2685	9.0482 9.0507	0.323 0.437	25.09	9M05D7W 9M05D7W
LTE Band 41(PC3)		QPSK	2503.5 - 2682.5	13.5570	0.532	27.26	13M6G7W
	45 MIL-	16QAM	2503.5 - 2682.5	13.5560	0.428	26.31	13M6D7W
	15 MHz	64QAM	2503.5 - 2682.5	13.5300	0.335	25.25	13M5D7W
		256QAM	2503.5 - 2682.5	13.5450	0.434	26.37	13M5D7W
		QPSK	2506 - 2680	18.0130	0.536	27.29	18M0G7W
	20 MHz	16QAM	2506 - 2680	18.1320	0.428	26.31	18M1D7W
		64QAM 256QAM	2506 - 2680	18.0130	0.339	25.30 22.39	18M0D7W
		256QAM QPSK	2506 - 2680 2520 - 2550	18.0110 37.5730	0.173 0.479	26.80	18M0D7W 37M6G7W
		16QAM	2520 - 2550	37.5400	0.479	24.17	37M5D7W
ULCA LTE Band 7	20 + 20 MHz	64QAM	2520 - 2550	37.5590	0.220	23.42	37M6D7W
		256QAM	2520 - 2550	37.5310	0.104	20.18	37M5D7W
		QPSK	2516 - 2670	37.5820	1.072	30.30	37M6G7W
ULCA LTE Band 41(PC2)	20 + 20 MHz	16QAM	2516 - 2670	37.5120	0.604	27.81	37M5D7W
OLON LIL Dallu + I(POZ)	20 + 20 IVII IZ	64QAM	2516 - 2670	37.6150	0.511	27.08	37M6D7W
		256QAM	2516 - 2670	37.5930	0.236	23.72	37M6D7W
		QPSK	2516 - 2670	37.5820	0.521	27.17	37M6G7W
ULCA LTE Band 41(PC3)	20 + 20 MHz	16QAM	2516 - 2670	37.5120	0.283	24.52	37M5D7W
ULCA LTE Band 41(PC3)	20 + 20 MHz			07.0450	0.045	00.00	0714007141
ULCA LTE Band 41(PC3)	20 + 20 MHz	64QAM 256QAM	2516 - 2670 2516 - 2670	37.6150 37.5930	0.245 0.136	23.89 21.32	37M6D7W 37M6D7W

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 3 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 3 01 309



					EIRP		
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designate
		π/2 BPSK	2307.5 - 2312.5	4.4930	0.224	23.50	4M49G7V
		QPSK	2307.5 - 2312.5	4.4855	0.224	23.50	4M49G7V
	5 MHz	16QAM	2307.5 - 2312.5	4.4712	0.180	22.55	4M47D7V
		64QAM	2307.5 - 2312.5	4.4857	0.142	21.53	4M49D7V
NR Band n30		256QAM	2307.5 - 2312.5	4.4832	0.074	18.69	4M48D7\
24.14.100		π/2 BPSK	2310	8.9312	0.223	23.48	8M93G7
		QPSK	2310	9.2923	0.224	23.50	9M29G7\
	10MHz	16QAM	2310	9.2850	0.180	22.55	9M29D7\
		64QAM	2310	9.3054	0.142	21.52	9M31D7\
		256QAM	2310	9.3312	0.074	18.69	9M33D7\
		π/2 BPSK	2502.5 - 2567.5	4.4847	0.476	26.78	4M48G7
	5 1411-	QPSK	2502.5 - 2567.5	4.4698	0.479	26.80	4M47G7\
	5 MHz	16QAM	2502.5 - 2567.5	4.4709	0.366	25.63	4M47D7\
		64QAM	2502.5 - 2567.5	4.4902	0.299	24.76	4M49D7\
		256QAM	2502.5 - 2567.5	4.4486	0.155	21.89	4M45D7
		π/2 BPSK	2505 - 2565	8.9797	0.479	26.80	8M98G7
		QPSK	2505 - 2565	9.3181	0.478	26.79	9M32G7
	10MHz	16QAM	2505 - 2565	9.3455	0.382	25.82	9M35D7
		64QAM	2505 - 2565	9.3226	0.303	24.81	9M32D7
		256QAM	2505 - 2565	9.2957	0.155	21.91	9M30D7
		π/2 BPSK	2507.5 - 2562.5	13.4130	0.476	26.78	13M4G7
		QPSK	2507.5 - 2562.5	14.1820	0.479	26.80	14M2G7
	15 MHz	16QAM	2507.5 - 2562.5	14.1320	0.375	25.74	14M1D7
		64QAM	2507.5 - 2562.5	14.1120	0.299	24.76	14M1D7
		256QAM	2507.5 - 2562.5	14.0580	0.152	21.83	14M1D7
		π/2 BPSK	2510 - 2560	17.9880	0.473	26.75	18M0G7
		QPSK	2510 - 2560	18.9710	0.479	26.80	19M0G7
	20MHz	16QAM	2510 - 2560	18.9280	0.376	25.75	18M9D7
		64QAM	2510 - 2560	18.9230	0.302	24.80	18M9D7
ND D 1 - 7		256QAM	2510 - 2560	19.0210	0.155	21.90	19M0D7
NR Band n7		π/2 BPSK	2512.5 - 2557.5	22.8950	0.479	26.80	22M9G7
		QPSK	2512.5 - 2557.5	23.8060	0.479	26.80	23M8G7
	25MHz	16QAM	2512.5 - 2557.5	23.8360	0.381	25.81	23M8D7
		64QAM	2512.5 - 2557.5	23.8300	0.306	24.86	23M8D7
		256QAM	2512.5 - 2557.5	23.7920	0.158	21.99	23M8D7
		π/2 BPSK	2515 - 2555	28.6640	0.474	26.76	28M7G7
		QPSK	2515 - 2555	28.6280	0.479	26.80	28M6G7
	30MHz	16QAM	2515 - 2555	28.6180	0.380	25.80	28M6D7
		64QAM	2515 - 2555	28.7060	0.299	24.76	28M7D7
		256QAM	2515 - 2555	28.6540	0.156	21.92	28M7D7
		π/2 BPSK	2517.5 - 2552.5	32.2490	0.469	26.71	32M2G7
		QPSK	2517.5 - 2552.5	33.6570	0.479	26.80	33M7G7
	35MHz	16QAM	2517.5 - 2552.5	33.5560	0.379	25.79	33M6D7
	332	64QAM	2517.5 - 2552.5	33.6280	0.299	24.75	33M6D7\
		256QAM	2517.5 - 2552.5	33.5650	0.255	21.89	33M6D7
		π/2 BPSK	2520 - 2550	38.6370	0.155	26.80	38M6G7
		QPSK	2520 - 2550	38.6140	0.479	26.78	38M6G7
	40MHz	16QAM	2520 - 2550	38.7640		25.80	38M8D7\
	701011 12	64QAM	2520 - 2550	38.6380	0.380		38M6D7
		256QAM	2020 - 2000	38.5910	0.301	24.79	30IVIOD/\

FCC ID: BCGA2837	element	element PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 4 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 4 01 509



					Ell	RP	
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Emission Designator
		π/2 BPSK	2501 - 2685	8.5890	1.072	30.30	8M59G7W
		QPSK	2501 - 2685	8.5614	1.072	30.30	8M56G7W
	10 MHz	16QAM	2501 - 2685	8.6380	0.843	29.26	8M64D7W
		64QAM	2501 - 2685	8.5744	0.676	28.30	8M57D7W
		256QAM	2501 - 2685	8.5665	0.347	25.40	8M57D7W
		π/2 BPSK	2503.5 - 2682.5	12.8960	1.067	30.28	12M9G7W
		QPSK	2503.5 - 2682.5	12.8130	1.072	30.30	12M8G7W
	15 MHz	16QAM	2503.5 - 2682.5	12.9200	0.847	29.28	12M9D7W
		64QAM	2503.5 - 2682.5	12.8730	0.673	28.28	12M9D7W
		256QAM	2503.5 - 2682.5	12.8280	0.348	25.41	12M8D7W
		π/2 BPSK	2506 - 2680	17.9650	1.042	30.18	18M0G7W
		QPSK	2506 - 2680	17.9330	1.064	30.27	17M9G7W
	20 MHz	16QAM	2506 - 2680	18.0060	0.843	29.26	18M0D7W
		64QAM	2506 - 2680	17.9420	0.676	28.30	17M9D7W
		256QAM	2506 - 2680	17.8650	0.347	25.40	17M9D7W
		π/2 BPSK	2511 - 2675	26.7830	1.072	30.30	26M8G7W
		QPSK	2511 - 2675	26.9670	1.069	30.29	27M0G7W
	30 MHz	16QAM	2511 - 2675	26.9380	0.836	29.22	26M9D7W
		64QAM	2511 - 2675	26.9030	0.678	28.31	26M9D7W
		256QAM	2511 - 2675	26.8330	0.346	25.39	26M8D7W
	40 MHz	π/2 BPSK	2516 - 2670	35.8640	1.054	30.23	35M9G7W
		QPSK	2516 - 2670	35.8450	1.072	30.30	35M8G7W
		16QAM	2516 - 2670	35.8190	0.851	29.30	35M8D7W
		64QAM	2516 - 2670	35.6880	0.676	28.30	35M7D7W
		256QAM	2516 - 2670	35.8860	0.350	25.44	35M9D7W
		π/2 BPSK	2521 - 2665	45.7810	1.064	30.27	45M8G7W
ND D 44 (DOO)		QPSK	2521 - 2665	45.7930	1.072	30.30	45M8G7W
NR Band n41 (PC2)	50 MHz	16QAM	2521 - 2665	45.8330	0.845	29.27	45M8D7W
		64QAM	2521 - 2665	45.8090	0.676	28.30	45M8D7W
		256QAM	2521 - 2665	45.7610	0.353	25.48	45M8D7W
		π/2 BPSK	2526 - 2660	57.8770	1.045	30.19	57M9G7W
	60 MHz	QPSK	2526 - 2660	58.0250	1.072	30.30	58M0G7W
		16QAM 64QAM	2526 - 2660 2526 - 2660	58.0470	0.807 0.670	29.07	58M0D7W
				58.0360		28.26	58M0D7W
		256QAM	2526 - 2660 2531 - 2655	58.0290	0.348 1.072	25.41	58M0D7W
		π/2 BPSK QPSK	2531 - 2655	64.3460 64.6220	1.072	30.30 30.30	64M3G7W 64M6G7W
	70 MHz	16QAM	2531 - 2655	64.6220	0.849	29.29	64M4D7W
	/ O IVITIZ	64QAM	2531 - 2655	64.4390	0.678	28.31	64M4D7W
		256QAM	2531 - 2655	64.3590	0.878	25.40	64M4D7W
		π/2 BPSK	2536 - 2650	77.3010	1.072	30.30	77M3G7W
		QPSK	2536 - 2650	77.2130	1.064	30.27	77M2G7W
	80 MHz	16QAM	2536 - 2650	77.2070	0.832	29.20	77M2D7W
	00 1711 12	64QAM	2536 - 2650	77.2070	0.673	28.28	77M2D7W
		256QAM	2536 - 2650	77.3050	0.342	25.34	77M2D7W
		π/2 BPSK	2541 - 2645	87.0490	1.062	30.26	87M0G7W
		QPSK	2541 - 2645	87.0220	1.062	30.26	87M0G7W
	90 MHz	16QAM	2541 - 2645	86.8360	0.851	29.30	86M8D7W
	""" "	64QAM	2541 - 2645	87.0010	0.665	28.23	87M0D7W
		256QAM	2541 - 2645	86.9390	0.352	25.46	86M9D7W
		π/2 BPSK	2546 - 2640	96.7190	1.059	30.25	96M7G7W
		QPSK	2546 - 2640	96.3880	1.072	30.30	96M4G7W
	100 MHz	16QAM	2546 - 2640	96.3750	0.851	29.30	96M4D7W
		64QAM	2546 - 2640	96.4640	0.670	28.26	96M5D7W
		256QAM	2546 - 2640	96.4130	0.343	25.35	96M4D7W
L	1		LIT Overview				

FCC ID: BCGA2837	element	element PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Page 5 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 5 01 509



					EIRP		
		Tx Frequency					Emission
Mode	Bandwidth	Modulation	Range [MHz]	OBW [MHz]	Max. Power [W]	Max. Power [dBm]	Designator
		π/2 BPSK	2501 - 2685	8.5890	0.537	27.30	8M59G7W
		QPSK	2501 - 2685	8.5614	0.537	27.30	8M56G7W
	10 MHz	16QAM	2501 - 2685	8.6380	0.421	26.24	8M64D7W
		64QAM	2501 - 2685	8.5744	0.333	25.23	8M57D7W
		256QAM	2501 - 2685	8.5665	0.167	22.24	8M57D7W
		π/2 BPSK	2503.5 - 2682.5	12.8960	0.519	27.15	12M9G7W
		QPSK	2503.5 - 2682.5	12.8130	0.537	27.30	12M8G7W
	15 MHz	16QAM	2503.5 - 2682.5	12.9200	0.427	26.30	12M9D7W
		64QAM	2503.5 - 2682.5	12.8730	0.339	25.30	12M9D7W
		256QAM	2503.5 - 2682.5	12.8280	0.173	22.39	12M8D7W
		π/2 BPSK	2506 - 2680	17.9650	0.537	27.30	18M0G7W
		QPSK	2506 - 2680	17.9330	0.528	27.23	17M9G7W
	20 MHz	16QAM	2506 - 2680	18.0060	0.422	26.25	18M0D7W
		64QAM	2506 - 2680	17.9420	0.333	25.23	17M9D7W
		256QAM	2506 - 2680	17.8650	0.174	22.40	17M9D7W
		π/2 BPSK	2511 - 2675	26.7830	0.537	27.30	26M8G7W
		QPSK	2511 - 2675	26.9670	0.526	27.21	27M0G7W
	30 MHz	16QAM	2511 - 2675	26.9380	0.415	26.18	26M9D7W
		64QAM	2511 - 2675	26.9030	0.338	25.29	26M9D7W
		256QAM	2511 - 2675	26.8330	0.171	22.34	26M8D7W
	40 MHz	π/2 BPSK	2516 - 2670	35.8640	0.537	27.30	35M9G7W
		QPSK	2516 - 2670	35.8450	0.537	27.30	35M8G7W
		16QAM	2516 - 2670	35.8190	0.427	26.30	35M8D7W
		64QAM	2516 - 2670	35.6880	0.335	25.25	35M7D7W
		256QAM	2516 - 2670	35.8860	0.174	22.41	35M9D7W
		π/2 BPSK	2521 - 2665	45.7810	0.530	27.24	45M8G7W
NR Band n41 (PC3)	FO MILL	QPSK 16QAM	2521 - 2665 2521 - 2665	45.7930 45.8330	0.537 0.430	27.30 26.33	45M8G7W
NK Band 141 (FCS)	50 MHz	64QAM	2521 - 2665	45.8090	0.430	25.25	45M8D7W 45M8D7W
		256QAM	2521 - 2665	45.7610	0.335	22.38	45M8D7W
		π/2 BPSK	2526 - 2660	57.8770	0.173	27.30	57M9G7W
		QPSK	2526 - 2660	58.0250	0.537	27.30	58M0G7W
	60 MHz	16QAM	2526 - 2660	58.0470	0.430	26.33	58M0D7W
	60 MH2	64QAM	2526 - 2660	58.0360	0.430	25.33	58M0D7W
		256QAM	2526 - 2660	58.0290	0.175	22.42	58M0D7W
		π/2 BPSK	2531 - 2655	64.3460	0.173	27.30	64M3G7W
		QPSK	2531 - 2655	64.6220	0.535	27.28	64M6G7W
	70 MHz	16QAM	2531 - 2655	64.4390	0.423	26.26	64M4D7W
		64QAM	2531 - 2655	64.3910	0.336	25.26	64M4D7W
		256QAM	2531 - 2655	64.3590	0.172	22.35	64M4D7W
		π/2 BPSK	2536 - 2650	77.3010	0.519	27.15	77M3G7W
		QPSK	2536 - 2650	77.2130	0.537	27.30	77M2G7W
	80 MHz	16QAM	2536 - 2650	77.2070	0.419	26.22	77M2D7W
		64QAM	2536 - 2650	77.2090	0.336	25.26	77M2D7W
		256QAM	2536 - 2650	77.3050	0.174	22.40	77M3D7W
		π/2 BPSK	2541 - 2645	87.0490	0.525	27.20	87M0G7W
		QPSK	2541 - 2645	87.0220	0.527	27.22	87M0G7W
	90 MHz	16QAM	2541 - 2645	86.8360	0.424	26.27	86M8D7W
		64QAM	2541 - 2645	87.0010	0.337	25.28	87M0D7W
		256QAM	2541 - 2645	86.9390	0.169	22.29	86M9D7W
		π/2 BPSK	2546 - 2640	96.7190	0.531	27.25	96M7G7W
		QPSK	2546 - 2640	96.3880	0.537	27.30	96M4G7W
	100 MHz	16QAM	2546 - 2640	96.3750	0.427	26.30	96M4D7W
	100 MHz	64QAM	2546 - 2640	96.4640	0.335	25.25	96M5D7W
		O-T-Q/ (IVI	2040 2040	30.4040	0.000	_00	0002

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 6 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 6 of 569



1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations Measurements were performed at Element Materials Technology

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Agreements (MRAs).

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 7 of EGO
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 7 of 569



2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID:BCGA2837**. 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.: LCJRK9GLW0, KXYH5M6MPG, H5XXDMX5K9, GJ6WJ67WFX, DLXH16000010000661

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, 802.15.4

This device supports BT Beamforming

Measurements for LTE Band 41, FR1 Band n41, and LTE ULCA B41 were performed with NS04 for all antennas. Measurements for LTE Band 30 were performed with NS21 for all antennas.

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/FI	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	Х	✓	X	✓	X	X	X	X
2a	Config 2	Х	✓	X	Х	✓	X	X	X
2a	Config 3	✓	Х	X	Х	Х	✓	X	X
2a	Config 4	Х	Х	✓	✓	Х	X	X	X
2a	Config 5	Х	X	>	Х	>	X	X	X
4a	Config 6	Х	✓	X	√	X	X	X	X
4a	Config 7	Х	✓	X	Х	>	X	X	X
4a	Config 8	✓	X	X	Х	X	>	X	X
4a	Config 9	Х	Х	\	√	X	X	X	X
4a	Config 10	Х	X	√	Х	✓	X	X	X

Table 2-1. Simultaneous Transmission Configurations

√ = Support; × = Not Support

Note:

- 1. All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 1 and reported in RF UNII OFDM and RF Bluetooth.
- 2. 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.

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 8 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	rage o oi 309



2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

Band	Antenna Gain [dBi]						
Dallu	Antenna 4b	Antenna 1	Antenna 2b	Antenna 3			
LTE Band 30	0.00	-1.30	0.10	0.70			
NR Band n30	-0.90	-1.30	0.10	0.70			
LTE Band 7	0.50	4.40	4.50	1.60			
NR Band n7	-0.50	1.40	-1.50	1.60			
LTE Band 41	0.00	4.00	2.00	0.00			
NR Band n41	-0.20	1.60	-2.00	0.80			

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

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

Table 2-3. Test Support Equipment

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 9 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 9 01 309



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.

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 10 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	rage 10 01 569



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:

 $E_{[dB\mu V/m]} = \mbox{Measured amplitude level}_{[dBm]} + 107 + \mbox{Cable Loss}_{[dB]} + \mbox{Antenna Factor}_{[dB/m]} \\ \qquad \qquad \qquad \mbox{And} \\ EIRP_{[dBm]} = E_{[dB\mu V/m]} + 20\mbox{log} D - 104.8; \mbox{ where D is the measurement distance in meters.} \\$

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.

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 11 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage II 01 309



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)	5.22

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 12 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 12 01 309



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:

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.

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 13 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 13 01 309



6.0 SAMPLE CALCULATIONS

Emission Designator

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 BW = 8.45 MHz D = Amplitude/Angle Modulated 7 = Quantized/Digital Info W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 14 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Faye 14 01 309



7.0 TEST RESULTS

7.1 Summary

Company Name: <u>Apple Inc.</u>

FCC ID: BCGA2837

FCC Classification: PCS Licensed Transmitter (PCB)

Mode(s): $\underline{\mathsf{LTE/NR/ULCA}}$

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 (LTE Band 30)	2.1051, 27.53(a)	Undesirable emissions must meet the limits detailed in 27.53(a)	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (LTE Band 7)			PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (LTE Band 41)	2.1051, 27.53(m)	Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Sections 7.3, 7.4
	Conducted Band Edge / Spurious Emissions (NR Band n41)			PASS	Sections 7.3, 7.4
	Transmitter Conducted Output Pow er	2.1046	N/A	N/A	See RF Exposure Report
CONDUCTED	Additional Maximum Pow er Reduction (A-MPR) 2.1046	2.1046	N/A	N/A	Section 7.5
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 30)	27.50(a)(3)	< 0.25 Watts max. EIRP	PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 7)		< 2 Watts max. EIRP	PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (LTE Band 41)	27.50(h)(2)		PASS	Section 7.6
	Effective Radiated Power / Equivalent Isotropic Radiated Power (NR Band n41)			PASS	Section 7.6
	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
	Radiated Spurious Emissions (LTE Band 30)	2.1053, 27.53(a)	> 70 + 10log10(P[Watts])	PASS	Section 7.7
RADIATED	Radiated Spurious Emissions (LTE Band 7)		Undesirable emissions must meet the limits detailed in 27.53(m)	PASS	Section 7.7
KADIATED	Radiated Spurious Emissions (LTE Band 41)	2.1053, 27.53(m)		PASS	Section 7.7
	Radiated Spurious Emissions (NR Band n41)			PASS	Section 7.7

Table 7-1. Summary of Test Results

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 15 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 15 01 509



Notes:

- 1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2. The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized was Element EMC Software Tool v1.2.

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 16 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	rage to 01 309



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

- 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. $VBW \ge 3 \times RBW$
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2-7 were repeated after changing the RBW such that it would be within 1-5% of the 99% occupied bandwidth observed in Step 7

Test Setup

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

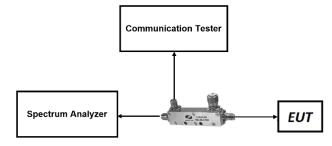


Figure 7-1. Test Instrument & Measurement Setup

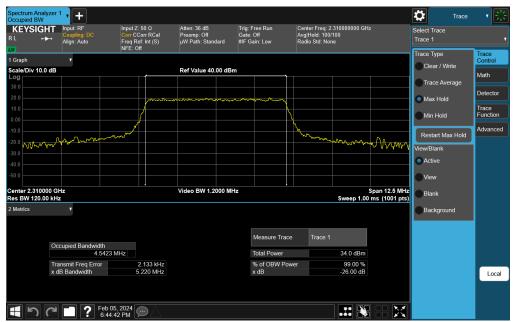
Test Notes

None.

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 17 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 17 01 309



LTE Band 30



Plot 7-1. Occupied Bandwidth Plot (LTE Band 30 - 5MHz QPSK - Full RB)



Plot 7-2. Occupied Bandwidth Plot (LTE Band 30 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 18 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 10 01 309





Plot 7-3. Occupied Bandwidth Plot (LTE Band 30 - 5MHz 64-QAM - Full RB)



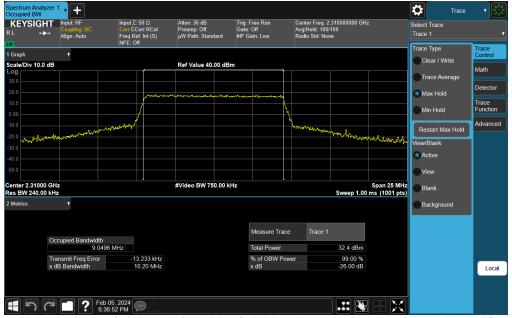
Plot 7-4. Occupied Bandwidth Plot (LTE Band 30 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 19 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 19 01 569





Plot 7-5. Occupied Bandwidth Plot (LTE Band 30 - 10MHz QPSK - Full RB)



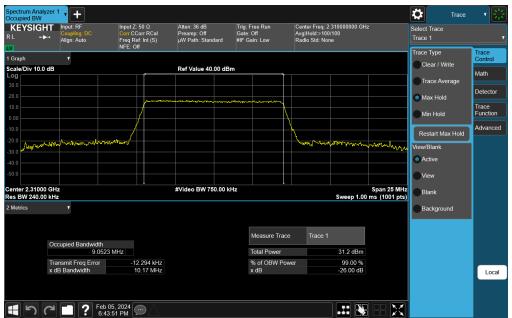
Plot 7-6. Occupied Bandwidth Plot (LTE Band 30 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 20 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 20 01 309





Plot 7-7. Occupied Bandwidth Plot (LTE Band 30 - 10MHz 64-QAM - Full RB)

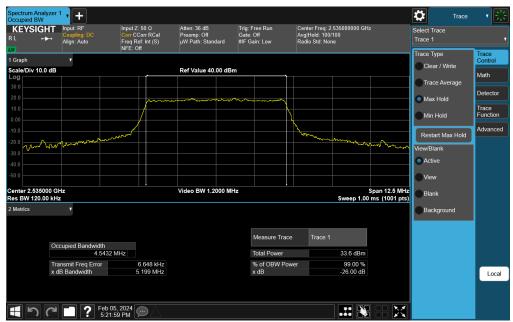


Plot 7-8. Occupied Bandwidth Plot (LTE Band 30 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 21 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 21 01 569



LTE Band 7



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



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

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 22 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 22 01 309





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



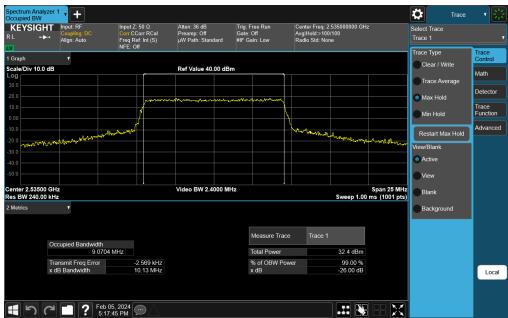
Plot 7-12. Occupied Bandwidth Plot (LTE Band 7 - 5MHz 256-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 23 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 23 01 309





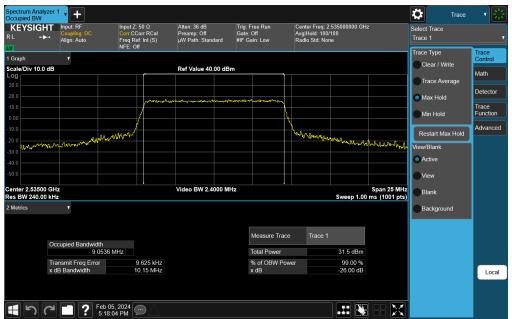
Plot 7-13. Occupied Bandwidth Plot (LTE Band 7 - 10MHz QPSK - Full RB)



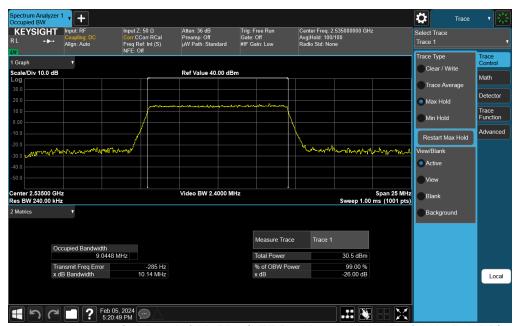
Plot 7-14. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 24 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 24 01 369





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



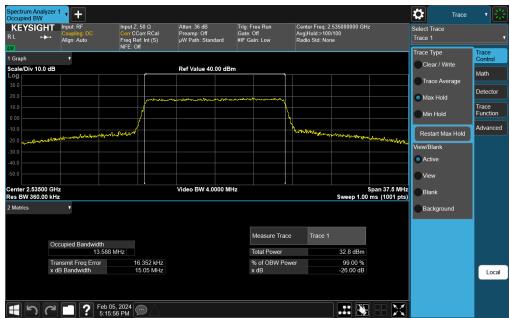
Plot 7-16. Occupied Bandwidth Plot (LTE Band 7 - 10MHz 256-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 25 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 25 01 569





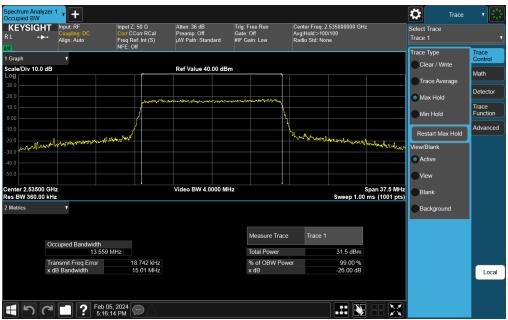
Plot 7-17. Occupied Bandwidth Plot (LTE Band 7 - 15MHz QPSK - Full RB)



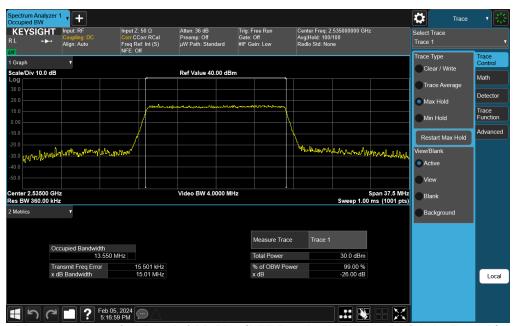
Plot 7-18. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 26 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 26 01 569





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



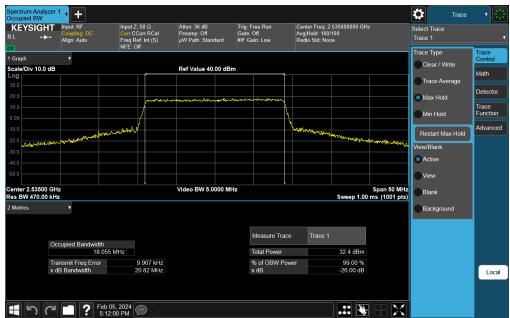
Plot 7-20. Occupied Bandwidth Plot (LTE Band 7 - 15MHz 256-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 27 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 27 01 369





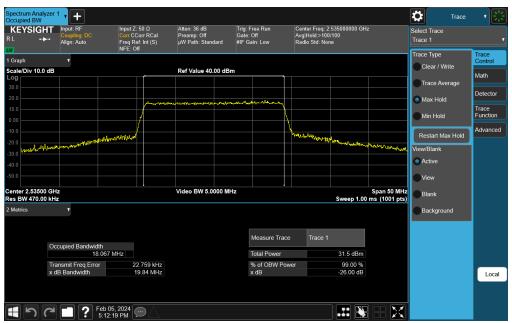
Plot 7-21. Occupied Bandwidth Plot (LTE Band 7 - 20MHz QPSK - Full RB)



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

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 28 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 20 01 309





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

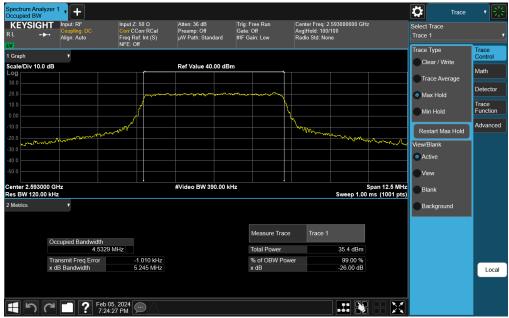


Plot 7-24. Occupied Bandwidth Plot (LTE Band 7 - 20MHz 256-QAM - Full RB)

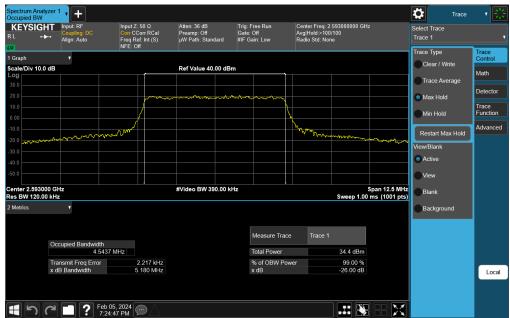
FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 29 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 29 01 569



LTE Band 41



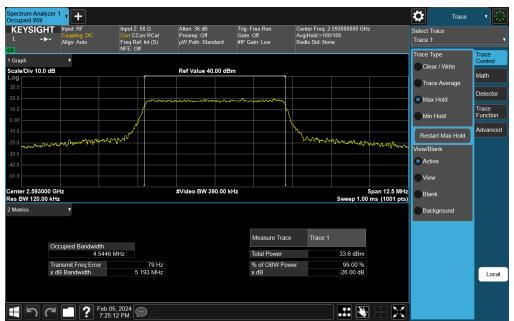
Plot 7-25. Occupied Bandwidth Plot (LTE Band 41 - 5MHz QPSK - Full RB)



Plot 7-26. Occupied Bandwidth Plot (LTE Band 41 - 5MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 30 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	raye 30 01 309





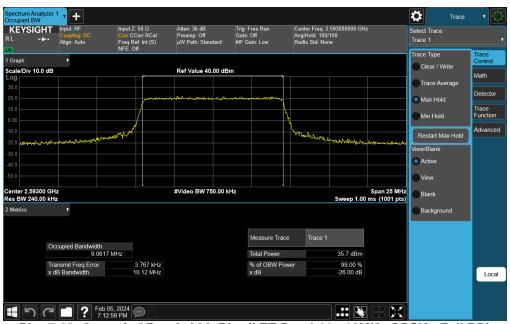
Plot 7-27. Occupied Bandwidth Plot (LTE Band 41 - 5MHz 64-QAM - Full RB)



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

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 31 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 31 01 309





Plot 7-29. Occupied Bandwidth Plot (LTE Band 41 - 10MHz QPSK - Full RB)



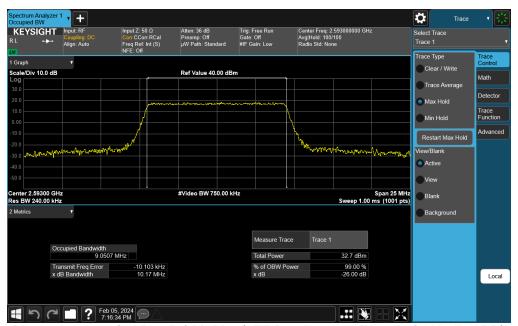
Plot 7-30. Occupied Bandwidth Plot (LTE Band 41 - 10MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 32 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 32 01 309





Plot 7-31. Occupied Bandwidth Plot (LTE Band 41 - 10MHz 64-QAM - Full RB)



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

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 33 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 33 01 309





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



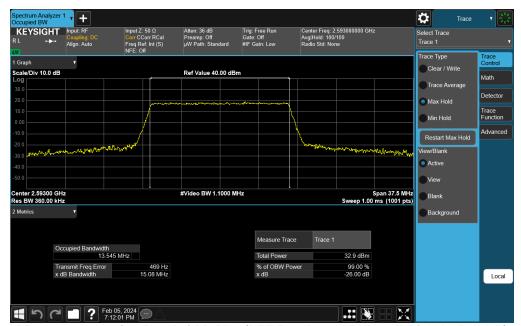
Plot 7-34. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 34 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	rage 34 01 309





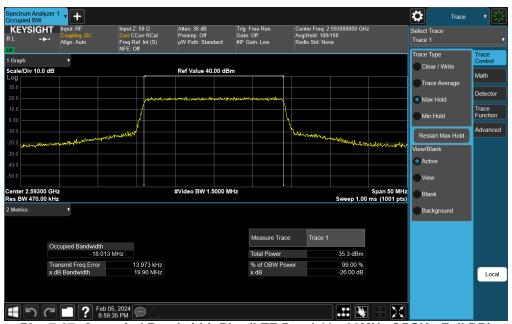
Plot 7-35. Occupied Bandwidth Plot (LTE Band 41 - 15MHz 64-QAM - Full RB)



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

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 35 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 33 01 309





Plot 7-37. Occupied Bandwidth Plot (LTE Band 41 - 20MHz QPSK - Full RB)



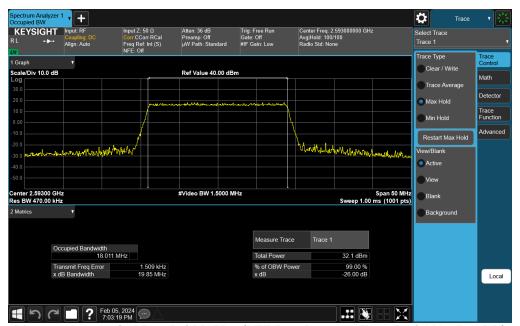
Plot 7-38. Occupied Bandwidth Plot (LTE Band 41 - 20MHz 16-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 36 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 36 01 369





Plot 7-39. Occupied Bandwidth Plot (LTE Band 41 - 20MHz 64-QAM - Full RB)



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

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 37 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 37 01 509



NR Band n30



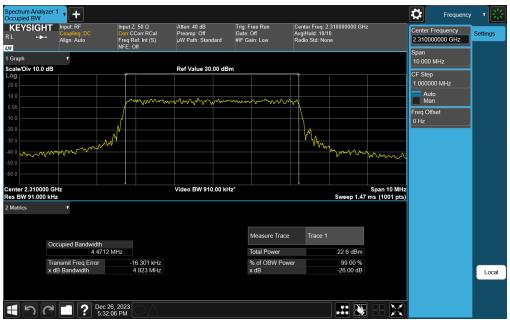
Plot 7-41. Occupied Bandwidth Plot (NR Band n30 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-42. Occupied Bandwidth Plot (NR Band n30 - 5MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 38 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	raye 30 01 309





Plot 7-43. Occupied Bandwidth Plot (NR Band n30 - 5MHz DFT-s-OFDM 16-QAM - Full RB)



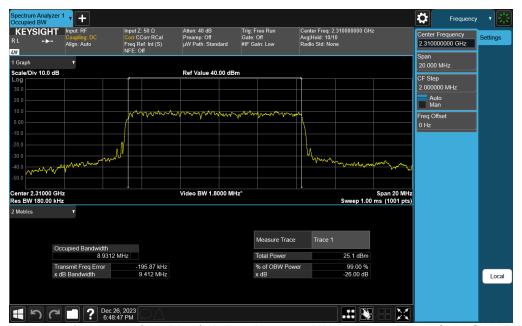
Plot 7-44. Occupied Bandwidth Plot (NR Band n30 - 5MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 39 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	





Plot 7-45. Occupied Bandwidth Plot (NR Band n30 - 5MHz CP-OFDM 256-QAM - Full RB)



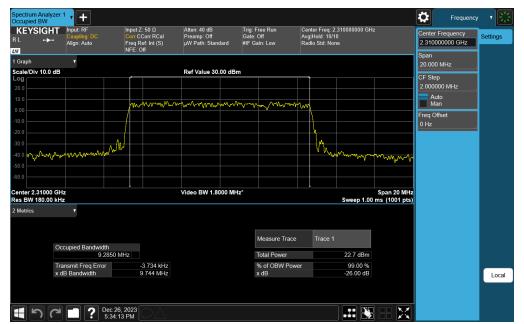
Plot 7-46. Occupied Bandwidth Plot (NR Band n30 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 40 of 560
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 40 of 569





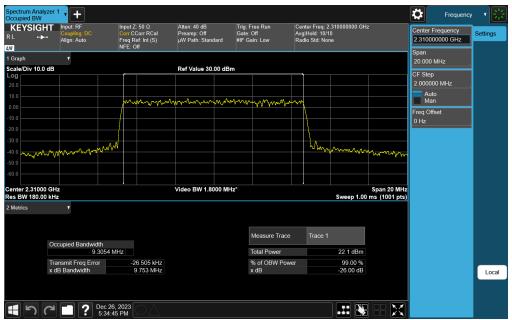
Plot 7-47. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM QPSK - Full RB)



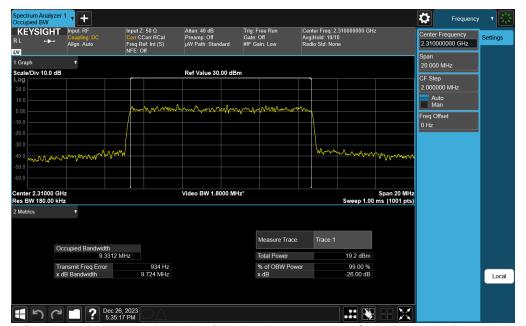
Plot 7-48. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 41 of 560
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 41 of 569





Plot 7-49. Occupied Bandwidth Plot (NR Band n30 - 10MHz CP-OFDM 64-QAM - Full RB)



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

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 42 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Faye 42 01 309



NR Band n7



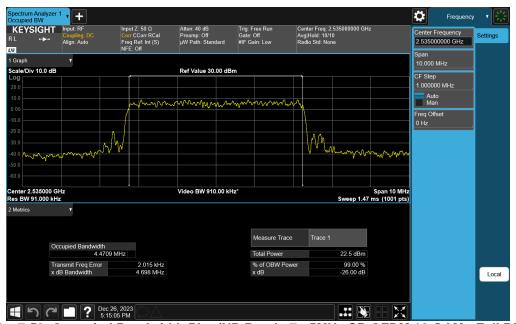
Plot 7-51. Occupied Bandwidth Plot (NR Band n7 - 5MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-52. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 43 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	





Plot 7-53. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 16-QAM - Full RB)



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

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 44 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 44 01 569





Plot 7-55. Occupied Bandwidth Plot (NR Band n7 - 5MHz CP-OFDM 256-QAM - Full RB)



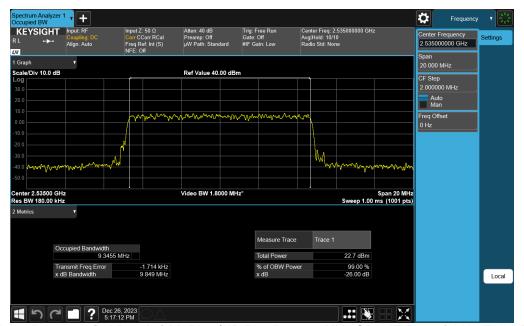
Plot 7-56. Occupied Bandwidth Plot (NR Band n7 - 10MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 45 of 560
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 45 of 569





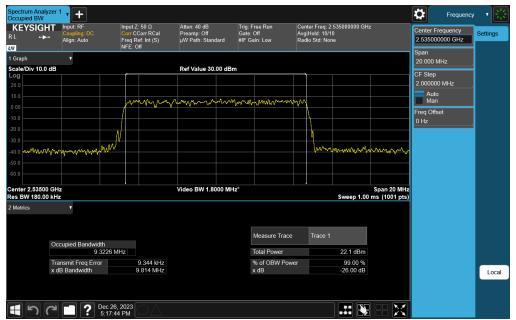
Plot 7-57. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM QPSK - Full RB)



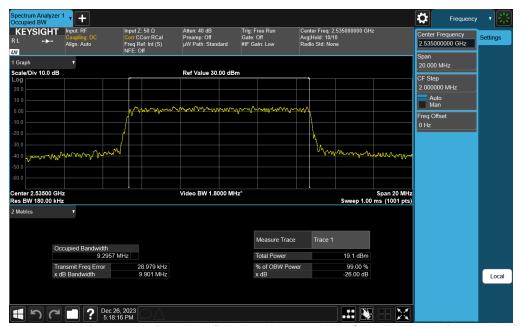
Plot 7-58. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 46 of 560
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 46 of 569





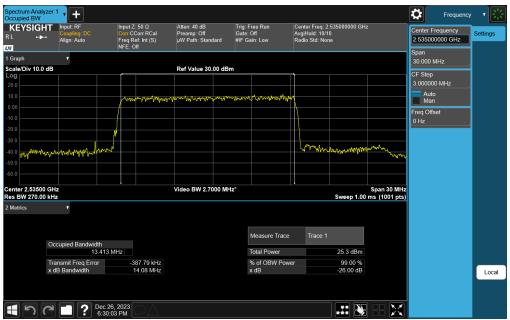
Plot 7-59. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 64-QAM - Full RB)



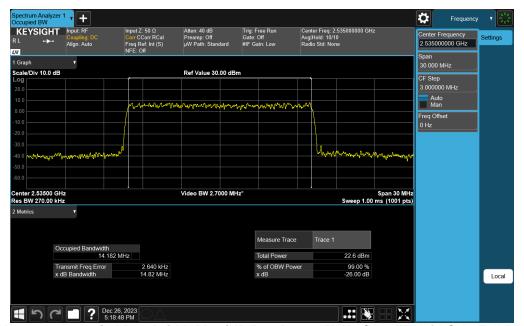
Plot 7-60. Occupied Bandwidth Plot (NR Band n7 - 10MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 47 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	





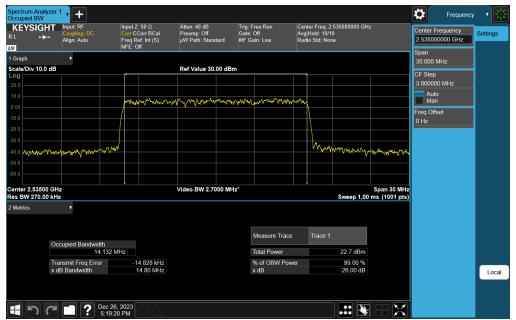
Plot 7-61. Occupied Bandwidth Plot (NR Band n7 - 15MHz DFT-s-OFDM π/2 BPSK - Full RB)



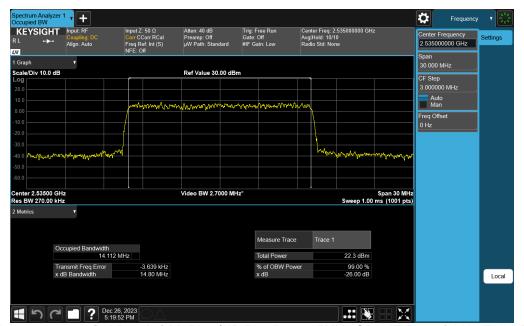
Plot 7-62. Occupied Bandwidth Plot (NR Band n7 - 15MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 48 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	





Plot 7-63. Occupied Bandwidth Plot (NR Band n7 - 15MHz CP-OFDM 16-QAM - Full RB)



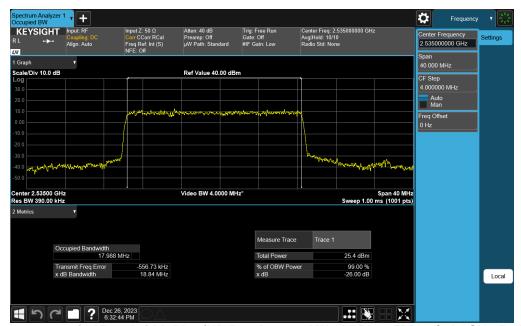
Plot 7-64. Occupied Bandwidth Plot (NR Band n7 - 15MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 49 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 49 01 309





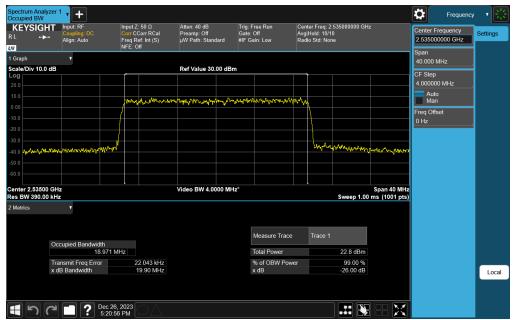
Plot 7-65. Occupied Bandwidth Plot (NR Band n7 - 15MHz CP-OFDM 256-QAM - Full RB)



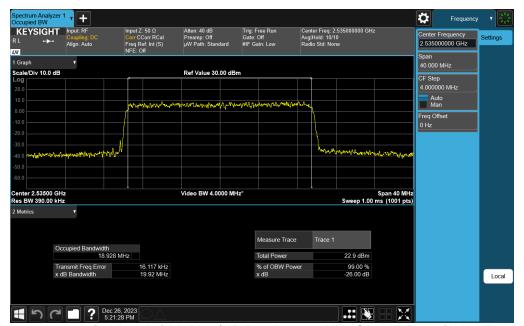
Plot 7-66. Occupied Bandwidth Plot (NR Band n7 - 20MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo FO of FGO
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 50 of 569





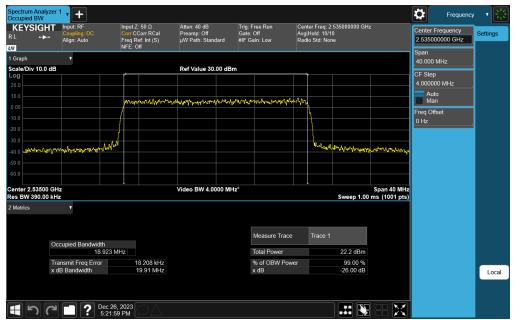
Plot 7-67. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM QPSK - Full RB)



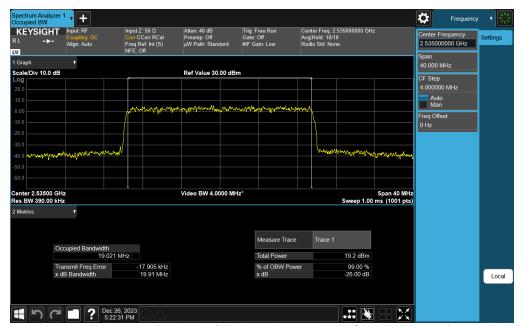
Plot 7-68. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 16-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 51 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 31 01 309





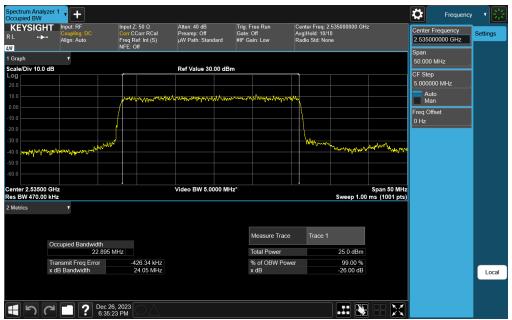
Plot 7-69. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 64-QAM - Full RB)



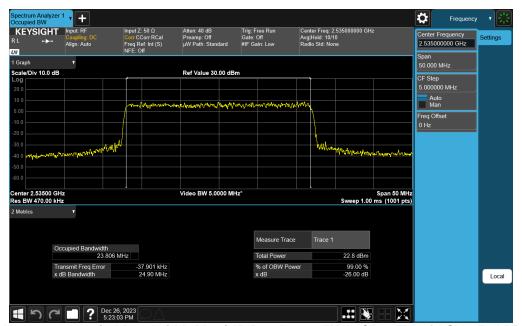
Plot 7-70. Occupied Bandwidth Plot (NR Band n7 - 20MHz CP-OFDM 256-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 52 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 32 01 309





Plot 7-71. Occupied Bandwidth Plot (NR Band n7 - 25MHz DFT-s-OFDM π/2 BPSK - Full RB)



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

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 53 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 33 01 309





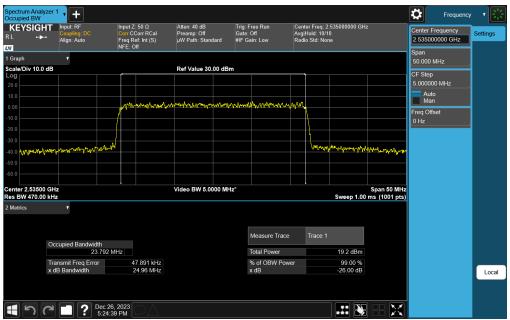
Plot 7-73. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 16-QAM - Full RB)



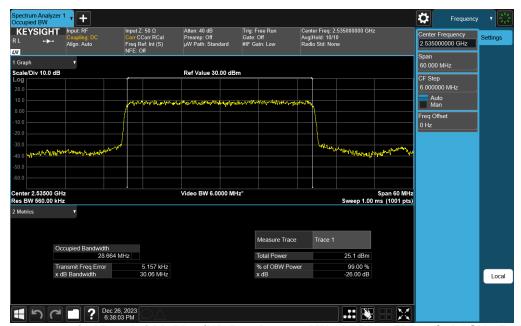
Plot 7-74. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 54 of 560
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 54 of 569





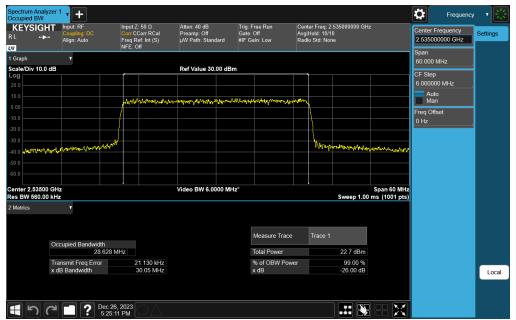
Plot 7-75. Occupied Bandwidth Plot (NR Band n7 - 25MHz CP-OFDM 256-QAM - Full RB)



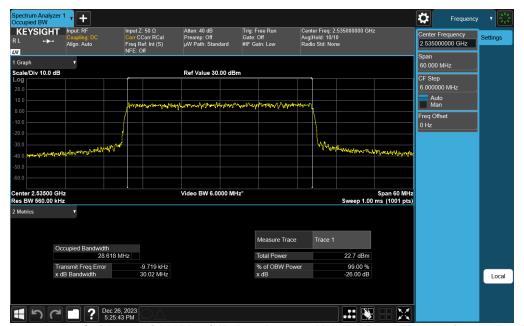
Plot 7-76. Occupied Bandwidth Plot (NR Band n7 - 30MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 55 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	raye 33 01 309





Plot 7-77. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM QPSK - Full RB)



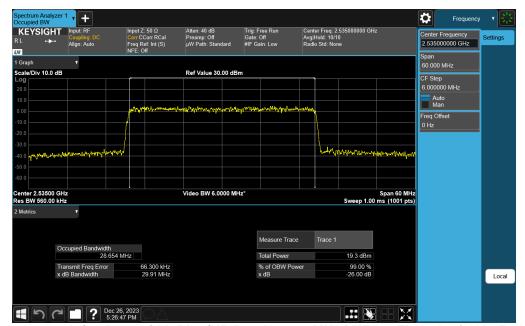
Plot 7-78. Occupied Bandwidth Plot (NR Band n7 - 30MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 56 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 30 01 309





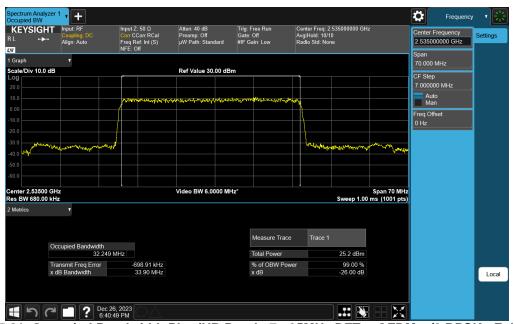
Plot 7-79. Occupied Bandwidth Plot (NR Band n7 - 30MHz CP-OFDM 64-QAM - Full RB)



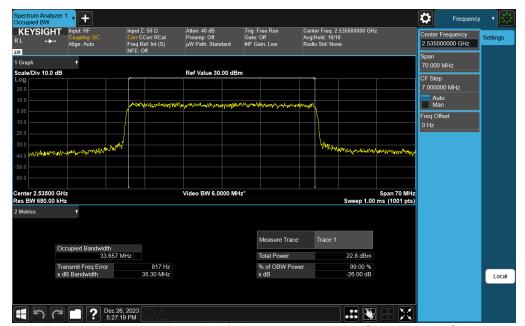
Plot 7-80. Occupied Bandwidth Plot (NR Band n7 - 30MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 57 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 37 01 309





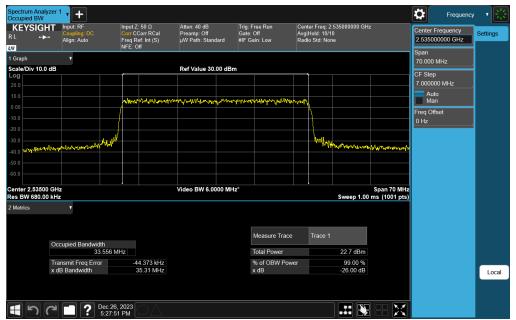
Plot 7-81. Occupied Bandwidth Plot (NR Band n7 - 35MHz DFT-s-OFDM π/2 BPSK - Full RB)



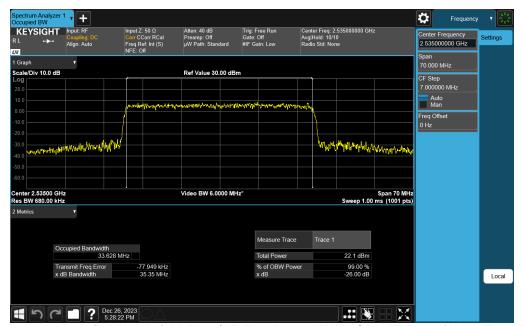
Plot 7-82. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM QPSK - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 58 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	raye 30 01 309





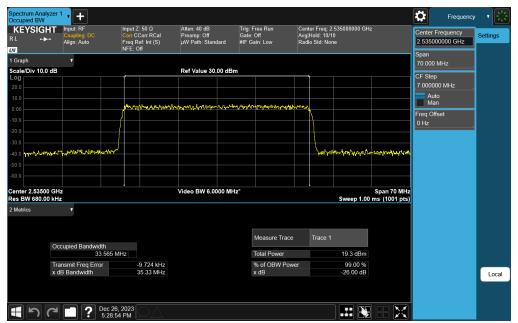
Plot 7-83. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 16-QAM - Full RB)



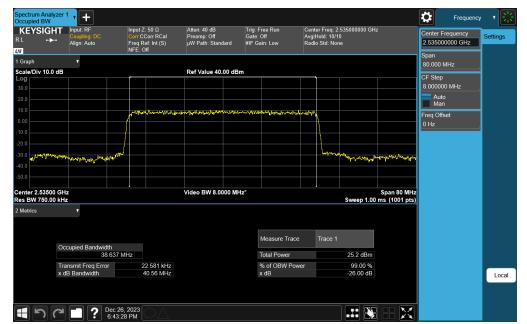
Plot 7-84. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 64-QAM - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo EO of EGO
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Page 59 of 569





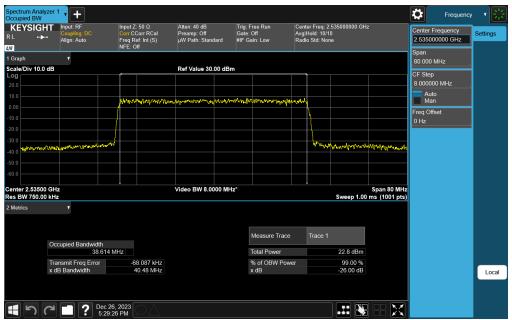
Plot 7-85. Occupied Bandwidth Plot (NR Band n7 - 35MHz CP-OFDM 256-QAM - Full RB)



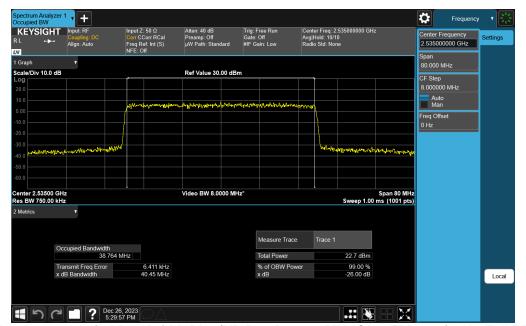
Plot 7-86. Occupied Bandwidth Plot (NR Band n7 - 40MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2837	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 60 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	Fage 60 01 569





Plot 7-87. Occupied Bandwidth Plot (NR Band n7 - 40MHz DFT-s-OFDM QPSK - Full RB)



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

FCC ID: BCGA2837	element element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 61 of 569
1C2311270068-10-R1.BCG	10/1/2023 - 04/03/2024	Tablet Device	