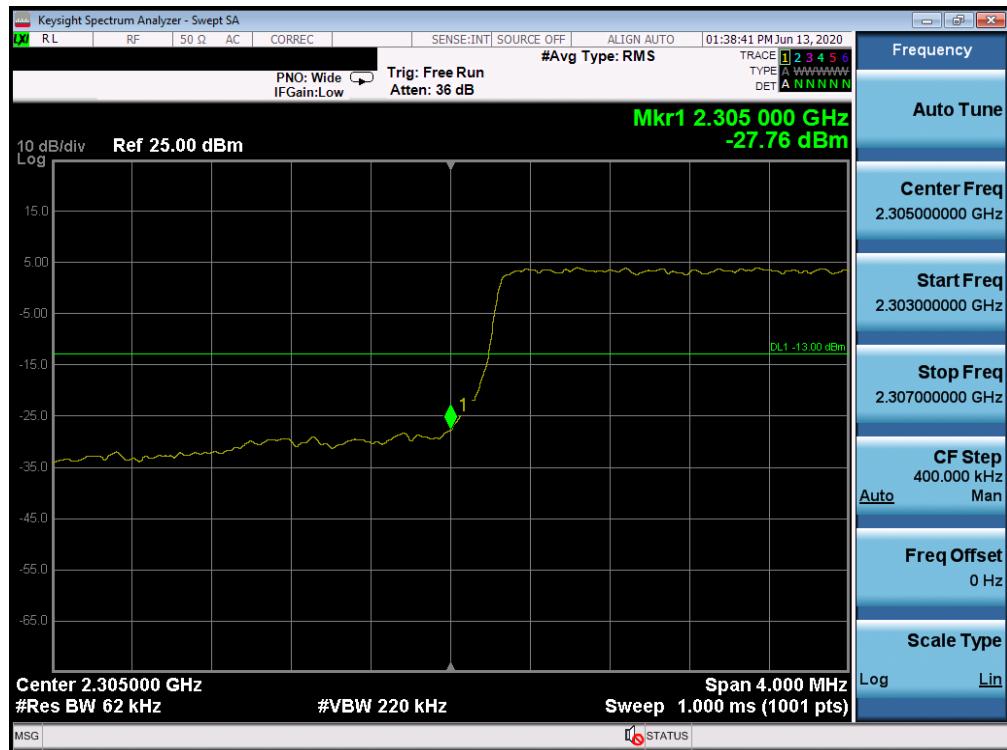


Band 30



Plot 7-330. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

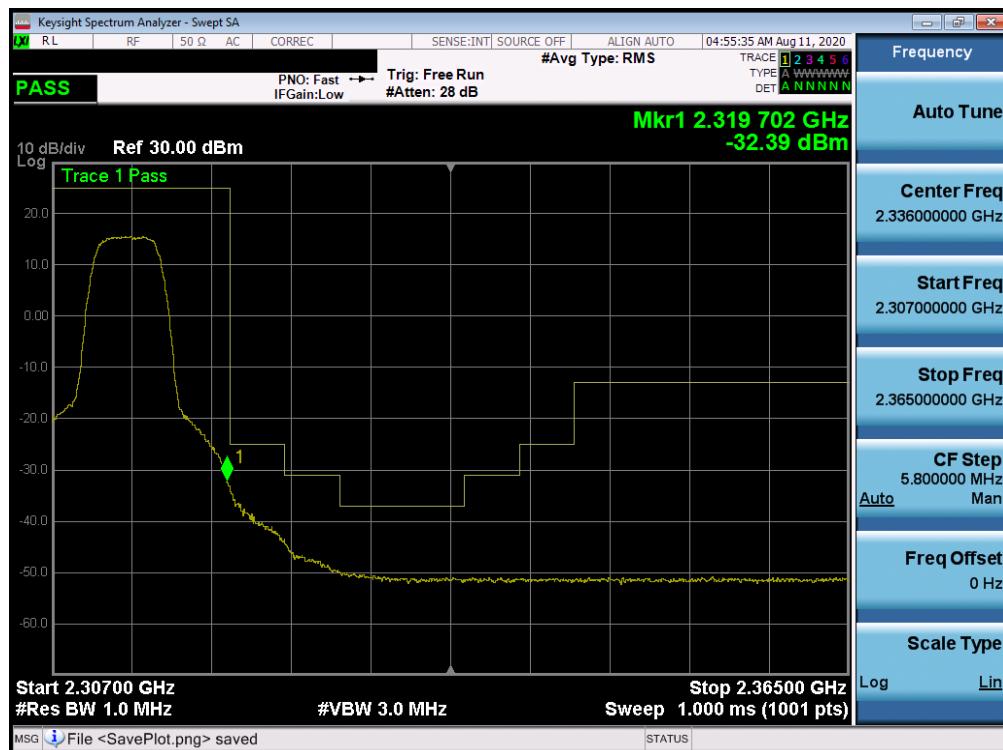


Plot 7-331. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 192 of 355

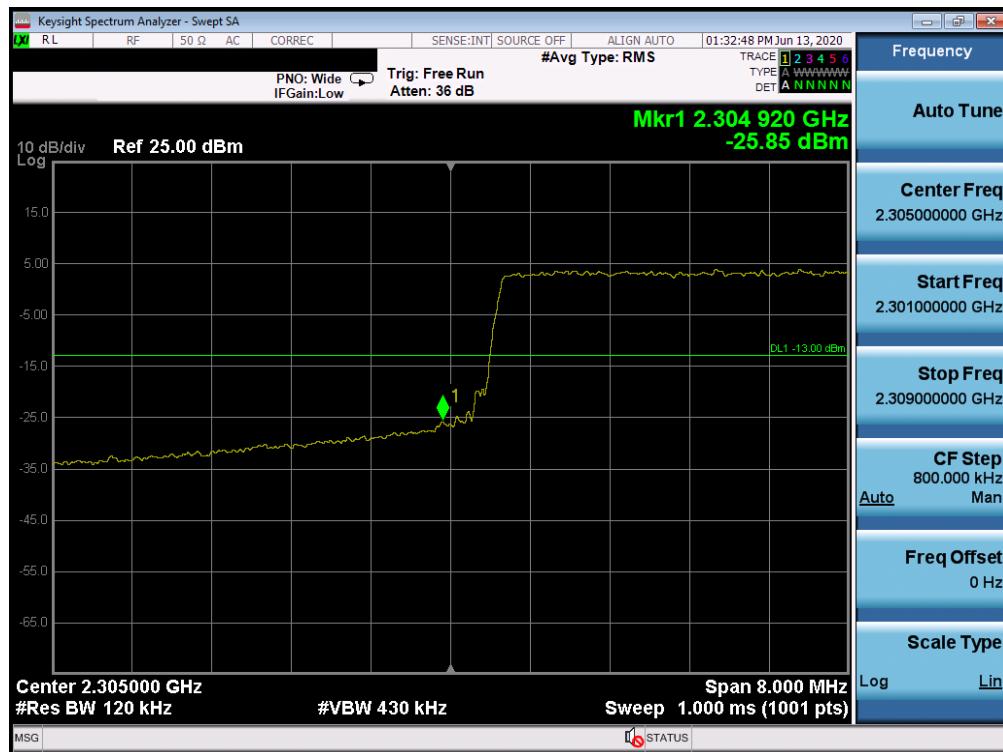


Plot 7-332. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-333. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 193 of 355

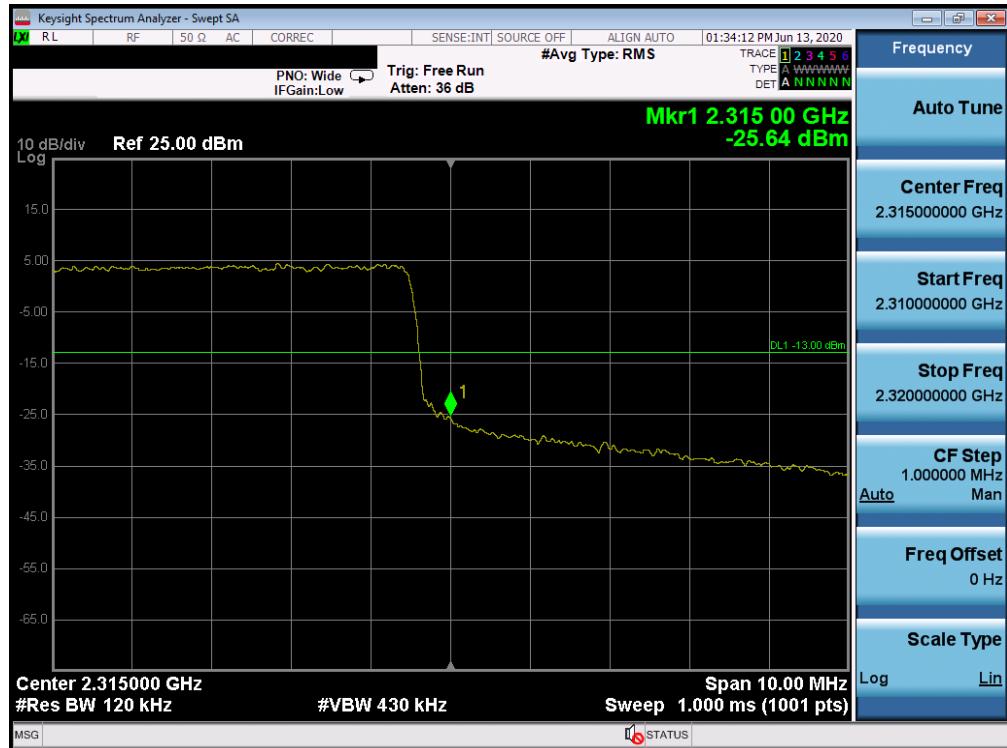


Plot 7-334. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-335. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 194 of 355



Plot 7-336. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



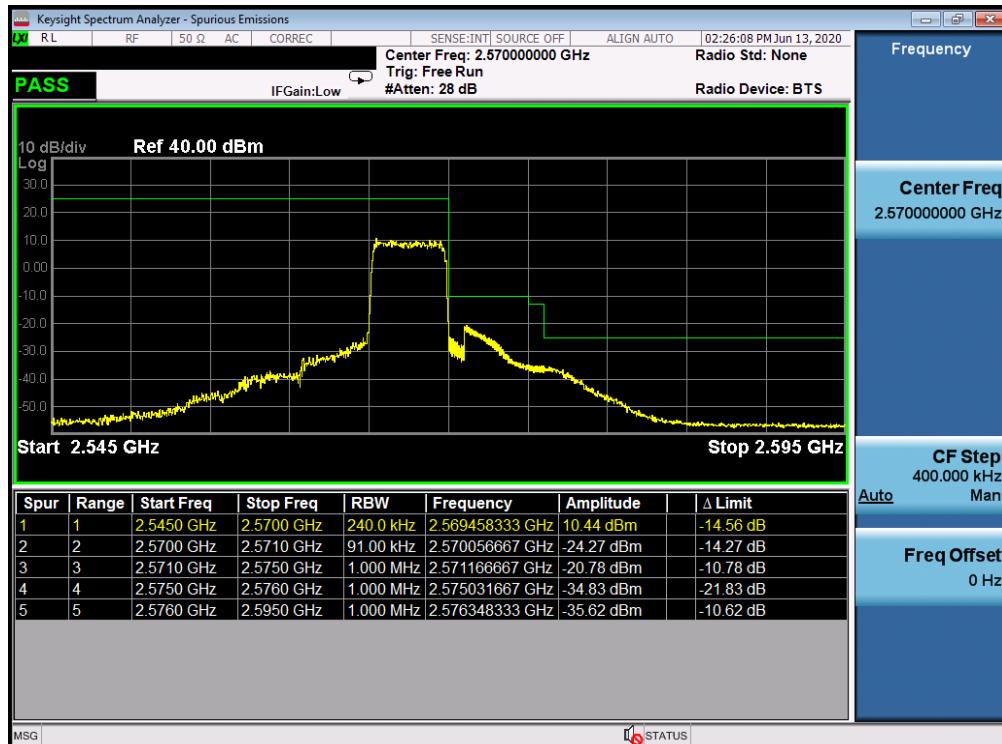
Plot 7-337. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 195 of 355

Band 7



Plot 7-338. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-339. Upper ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 196 of 355

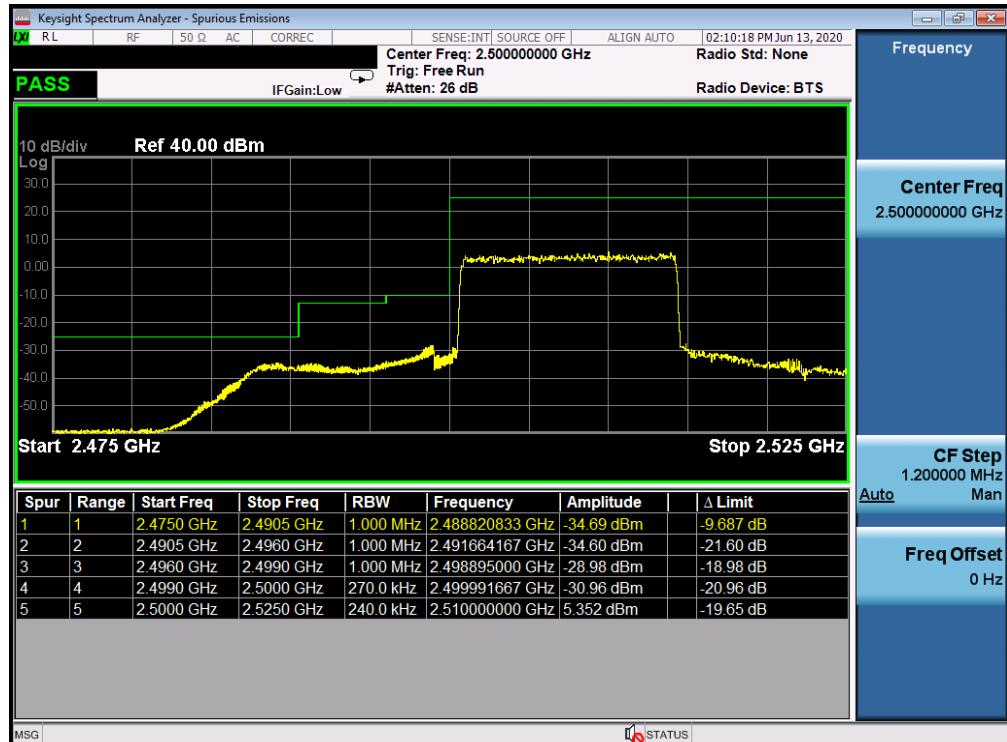


Plot 7-340. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

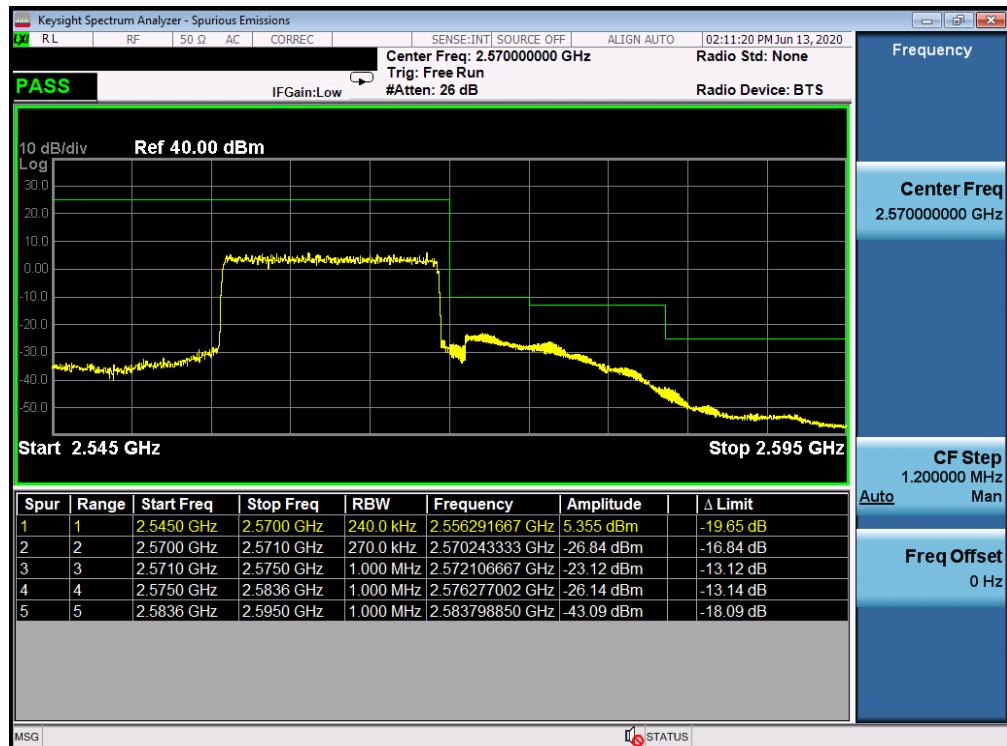


Plot 7-341. Upper ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 197 of 355	

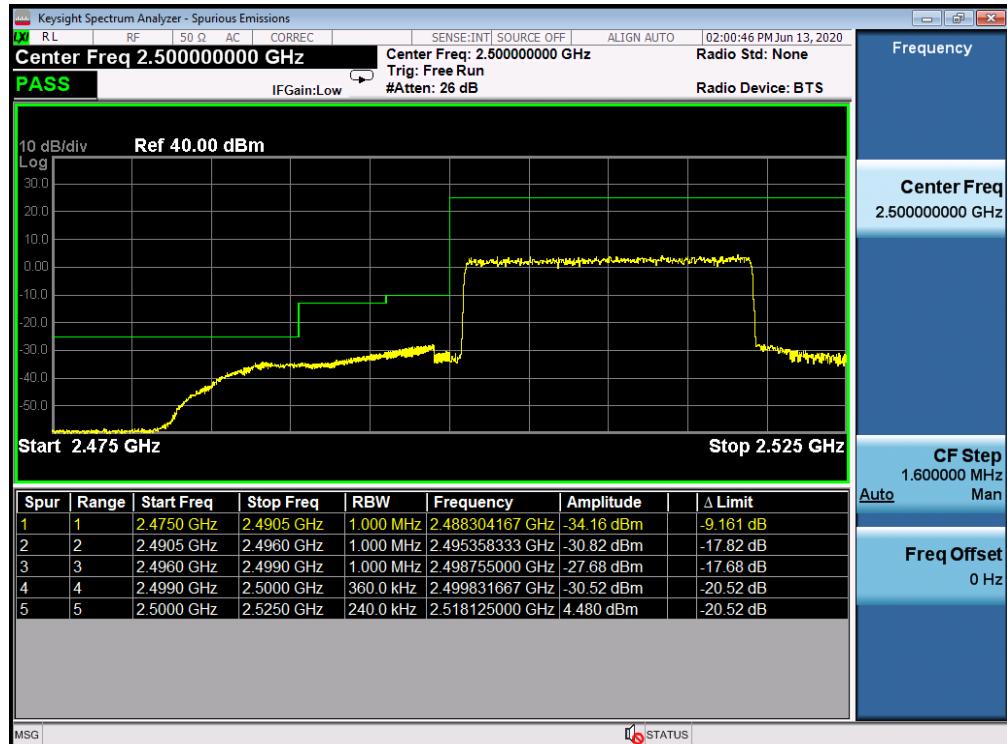


Plot 7-342. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-343. Upper ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 198 of 355	



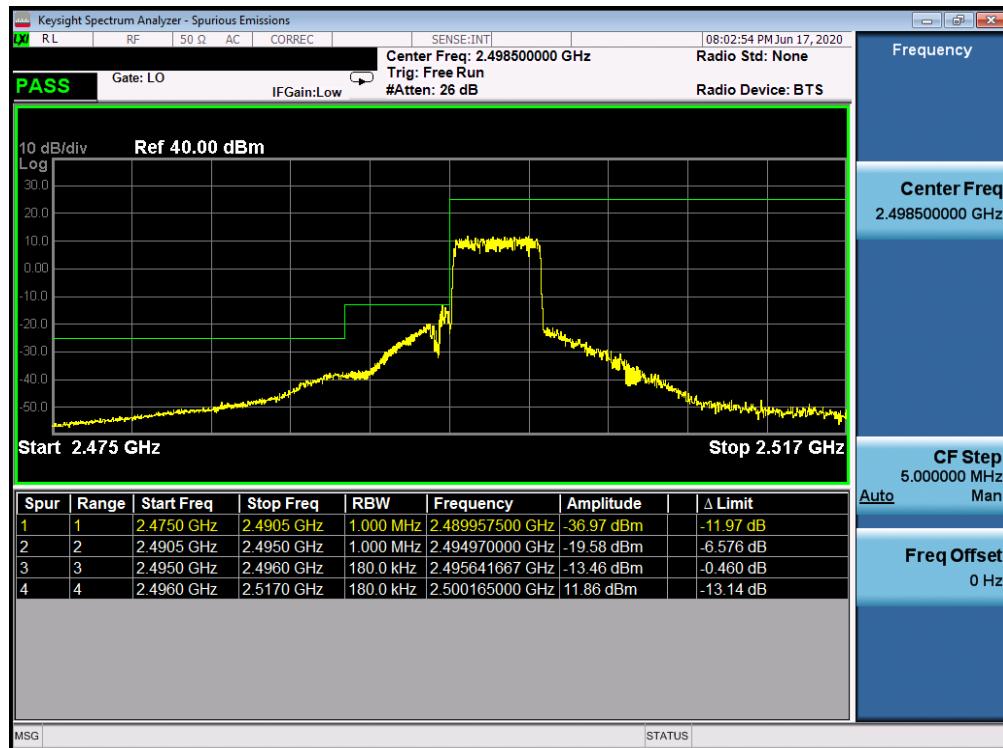
Plot 7-344. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



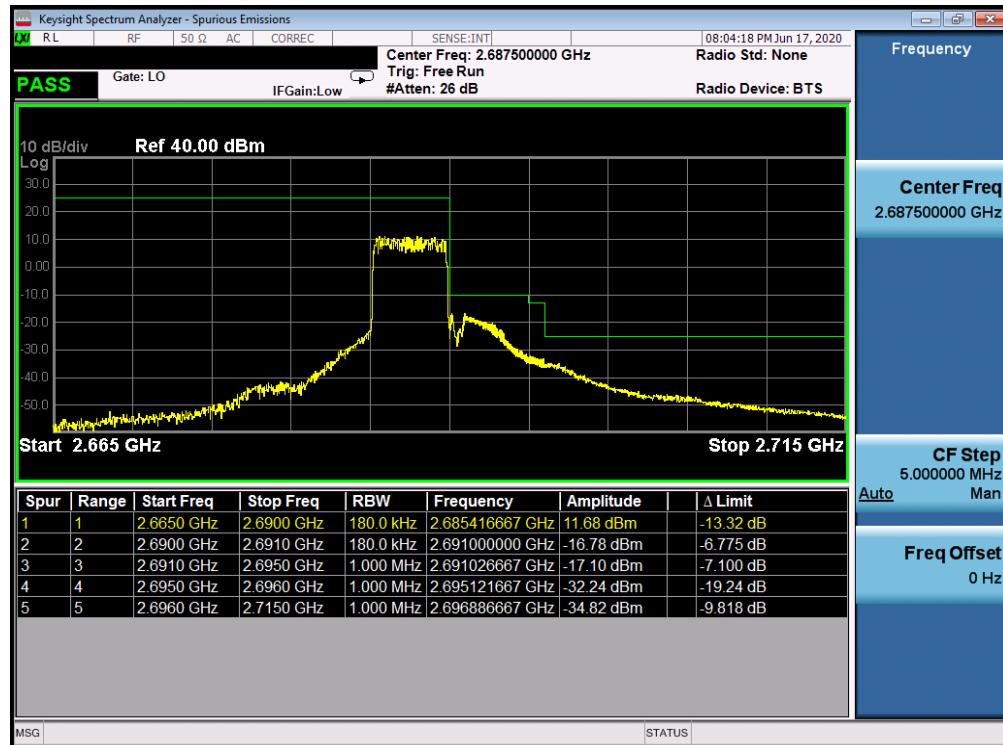
Plot 7-345. Upper ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 199 of 355	

Band 41

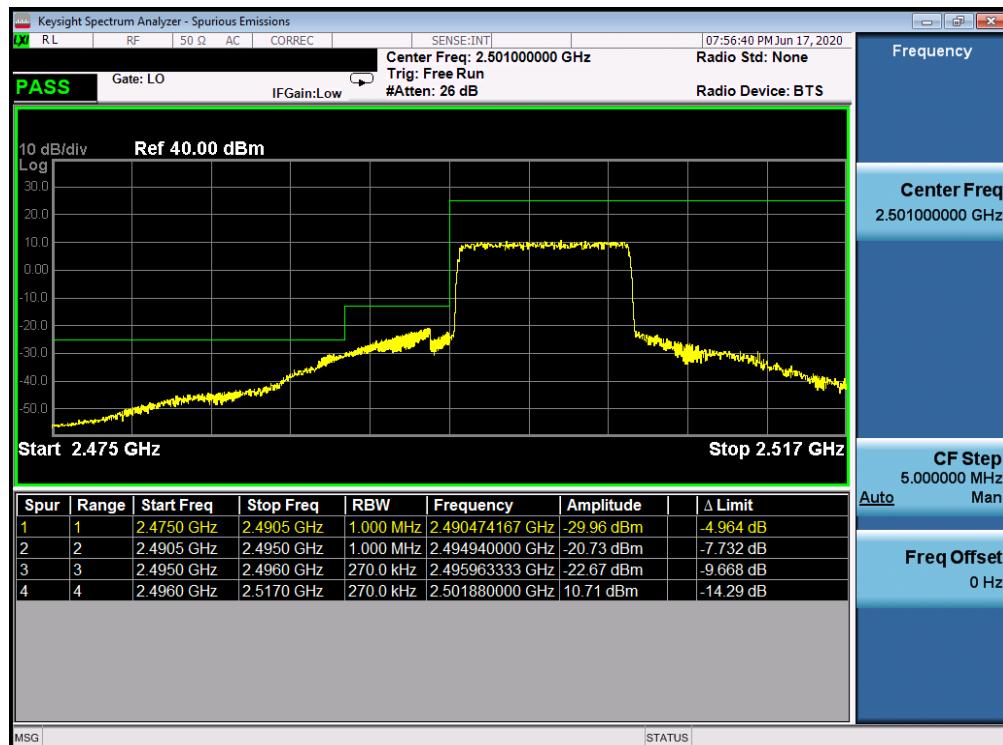


Plot 7-346. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-347. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device			

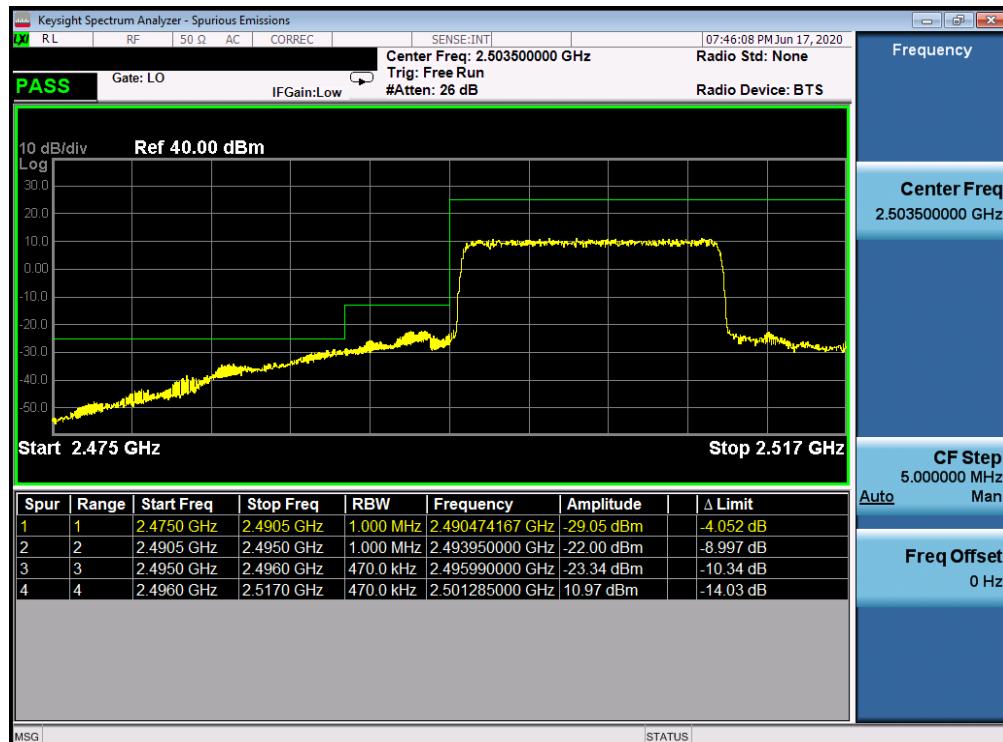


Plot 7-348. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-349. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 201 of 355	

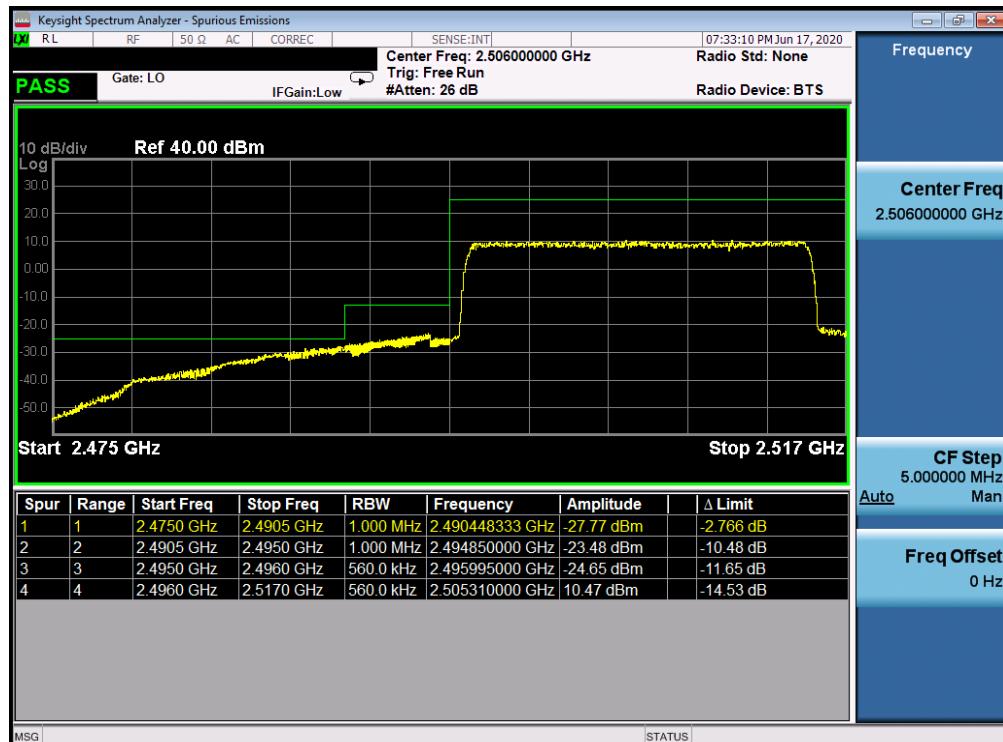


Plot 7-350. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-351. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 202 of 355	



Plot 7-352. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-353. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device			

7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

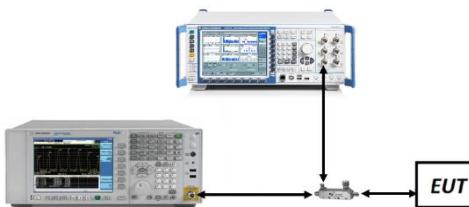


Figure 7-4. Test Instrument & Measurement Setup

Test Notes

All ports were tested and only the worst case data were reported.

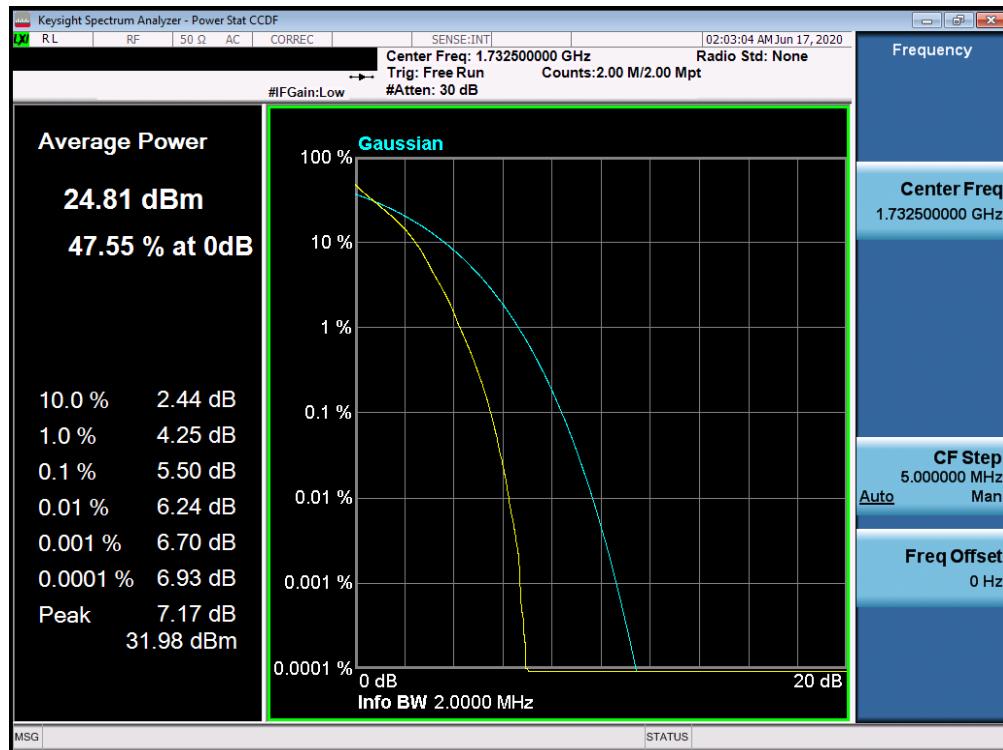
FCC ID: BCGA2428	PCTEST [®] Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 204 of 355

LTE	BW (MHz)	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	Limit [dB]	Margin [dB]
Band 4	1.4	QPSK	24.81	5.5	13	-7.5
Band 4	1.4	16QAM	24.05	6.31	13	-6.69
Band 4	1.4	64QAM	23.01	6.30	13	-6.7
Band 4	3	QPSK	24.80	5.57	13	-7.43
Band 4	3	16QAM	24.04	6.31	13	-6.69
Band 4	3	64QAM	22.97	6.40	13	-6.6
Band 4	5	QPSK	24.83	5.60	13	-7.4
Band 4	5	16QAM	24.04	6.25	13	-6.75
Band 4	5	64QAM	23	6.35	13	-6.65
Band 4	10	QPSK	24.79	5.64	13	-7.36
Band 4	10	16QAM	24.01	6.27	13	-6.73
Band 4	10	64QAM	22.97	6.38	13	-6.62
Band 4	15	QPSK	24.83	5.97	13	-7.03
Band 4	15	16QAM	24.05	6.30	13	-6.7
Band 4	15	64QAM	22.99	6.40	13	-6.6
Band 4	20	QPSK	24.85	5.70	13	-7.3
Band 4	20	16QAM	24.02	6.32	13	-6.68
Band 4	20	64QAM	23.02	6.48	13	-6.52
Band 66	1.4	QPSK	24.67	6.04	13	-6.96
Band 66	1.4	16QAM	23.68	6.83	13	-6.17
Band 66	1.4	64QAM	22.63	6.79	13	-6.21
Band 66	3	QPSK	24.63	5.95	13	-7.05
Band 66	3	16QAM	23.65	6.70	13	-6.3
Band 66	3	64QAM	22.58	6.77	13	-6.23
Band 66	5	QPSK	24.62	5.96	13	-7.04
Band 66	5	16QAM	23.61	6.68	13	-6.32
Band 66	5	64QAM	22.55	6.75	13	-6.25
Band 66	10	QPSK	24.62	5.92	13	-7.08
Band 66	10	16QAM	23.58	6.61	13	-6.39
Band 66	10	64QAM	22.53	6.71	13	-6.29
Band 66	15	QPSK	24.64	6.29	13	-6.71
Band 66	15	16QAM	23.60	6.60	13	-6.4
Band 66	15	64QAM	22.55	6.68	13	-6.32
Band 66	20	QPSK	24.91	5.77	13	-7.23
Band 66	20	16QAM	23.62	6.53	13	-6.47
Band 66	20	64QAM	22.57	6.62	13	-6.38
Band 2	1.4	QPSK	24.64	5.76	13	-7.24
Band 2	1.4	16QAM	23.67	6.57	13	-6.43
Band 2	1.4	64QAM	22.65	6.49	13	-6.51
Band 2	3	QPSK	24.62	5.70	13	-7.3
Band 2	3	16QAM	23.64	6.48	13	-6.52
Band 2	3	64QAM	22.61	6.60	13	-6.4
Band 2	5	QPSK	24.63	5.72	13	-7.28
Band 2	5	16QAM	23.63	6.43	13	-6.57
Band 2	5	64QAM	22.62	6.60	13	-6.4
Band 2	10	QPSK	24.68	5.80	13	-7.2
Band 2	10	16QAM	23.68	6.50	13	-6.5
Band 2	10	64QAM	22.65	6.68	13	-6.32
Band 2	15	QPSK	24.70	6.13	13	-6.87
Band 2	15	16QAM	23.72	6.54	13	-6.46
Band 2	15	64QAM	22.71	6.69	13	-6.31
Band 2	20	QPSK	24.82	5.74	13	-7.26
Band 2	20	16QAM	23.79	6.48	13	-6.52
Band 2	20	64QAM	22.79	6.67	13	-6.33
Band 25	1.4	QPSK	24.82	5.70	13	-7.3
Band 25	1.4	16QAM	23.89	6.52	13	-6.48
Band 25	1.4	64QAM	22.86	6.56	13	-6.44
Band 25	3	QPSK	24.84	5.62	13	-7.38
Band 25	3	16QAM	23.85	6.47	13	-6.53
Band 25	3	64QAM	22.81	6.64	13	-6.36
Band 25	5	QPSK	24.81	5.71	13	-7.29
Band 25	5	16QAM	23.84	6.39	13	-6.61
Band 25	5	64QAM	22.82	6.60	13	-6.4
Band 25	10	QPSK	24.86	5.75	13	-7.25
Band 25	10	16QAM	23.87	6.46	13	-6.54
Band 25	10	64QAM	22.85	6.65	13	-6.35
Band 25	15	QPSK	24.88	6.04	13	-6.96
Band 25	15	16QAM	23.91	6.50	13	-6.5
Band 25	15	64QAM	22.89	6.70	13	-6.3
Band 25	20	QPSK	24.96	5.71	13	-7.29
Band 25	20	16QAM	23.96	6.46	13	-6.54
Band 25	20	64QAM	22.95	6.64	13	-6.36

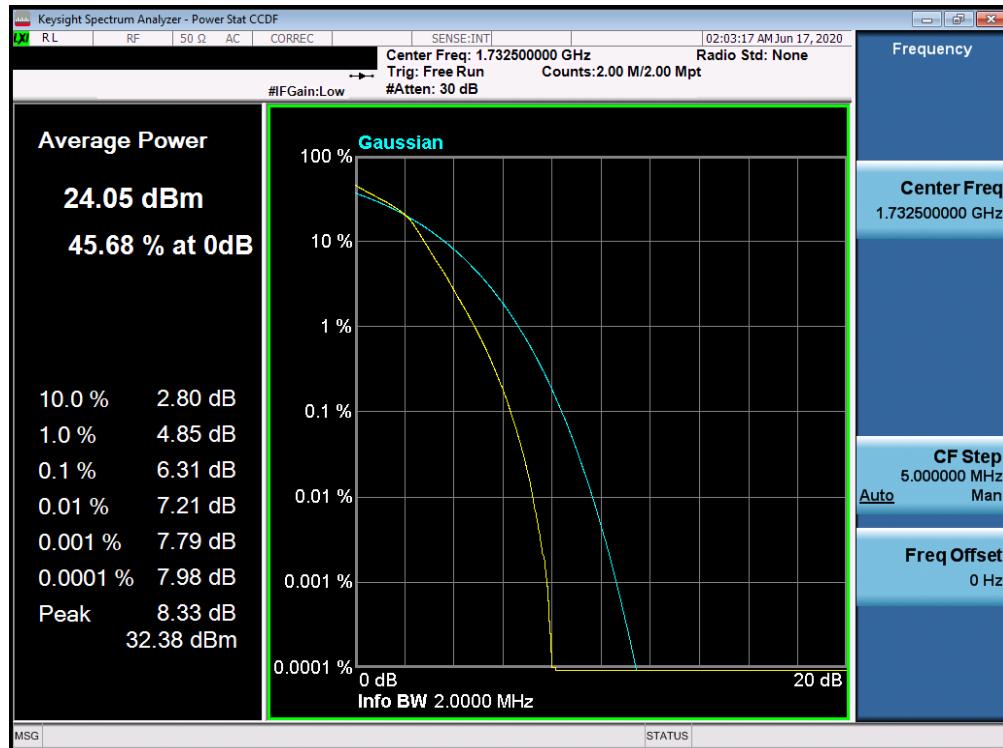
Table 7-6. PAR Table

FCC ID: BCGA2428	PCTEST [®] Proud to be part of element			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device			

Band 4

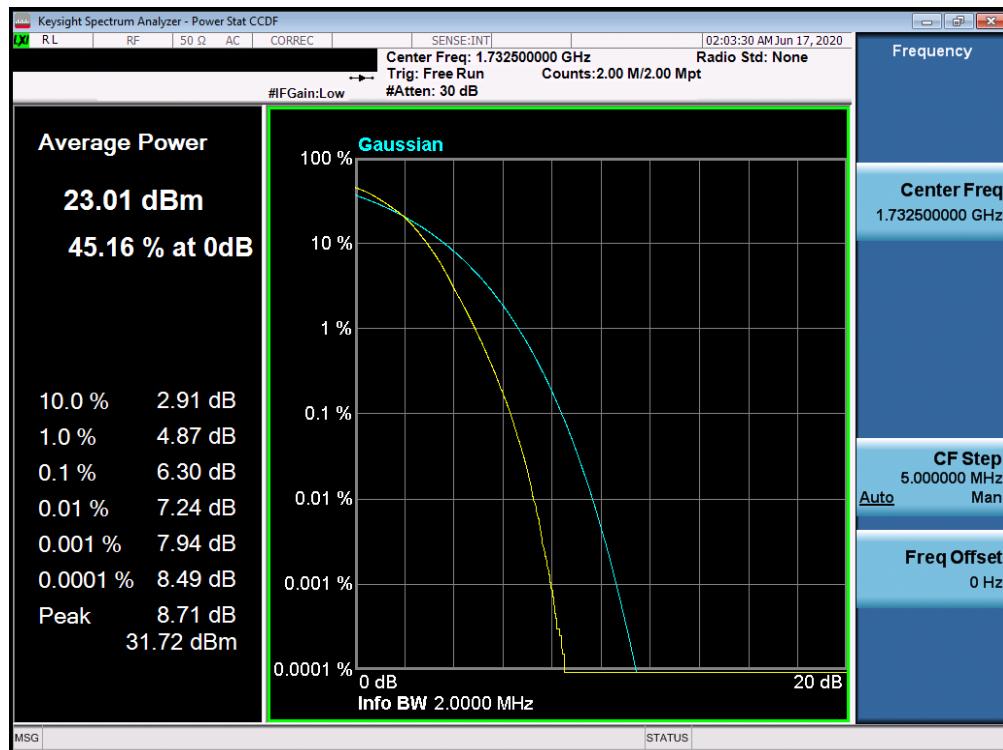


Plot 7-346. PAR Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

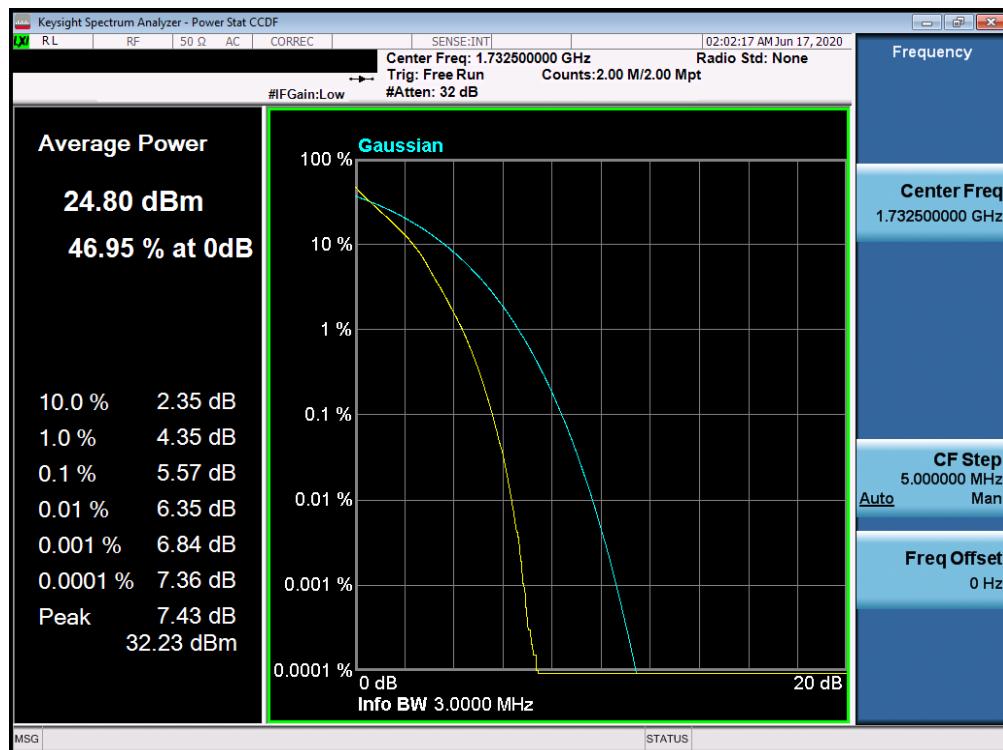


Plot 7-347. PAR Plot (Band 4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 206 of 355

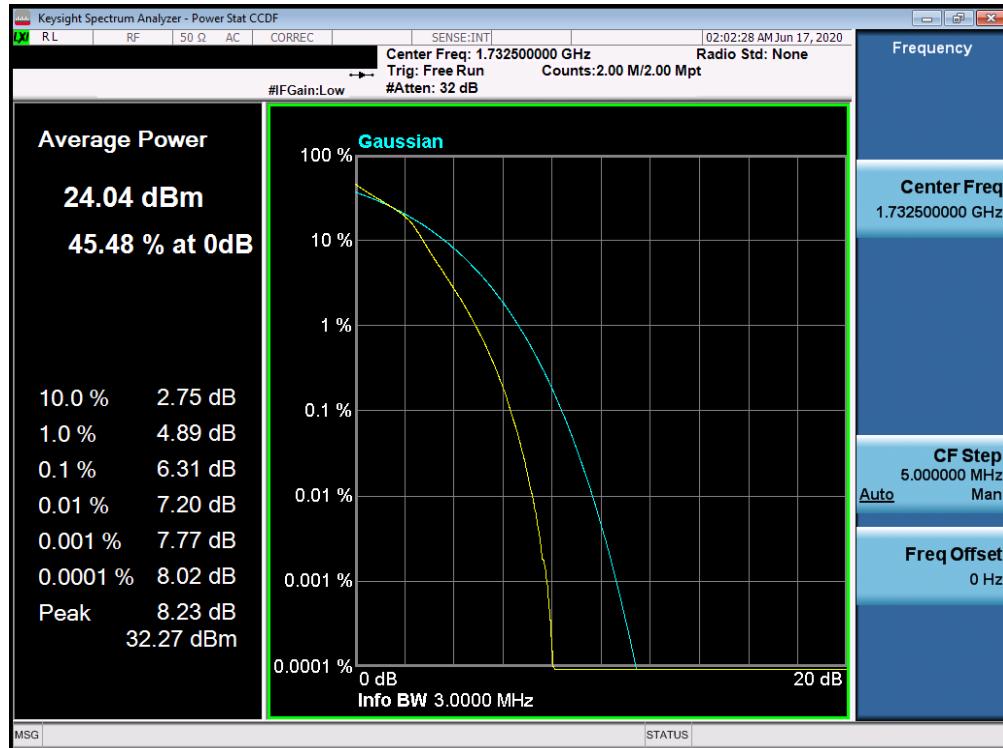


Plot 7-348. PAR Plot (Band 4 - 1.4MHz 64-QAM - Full RB Configuration)

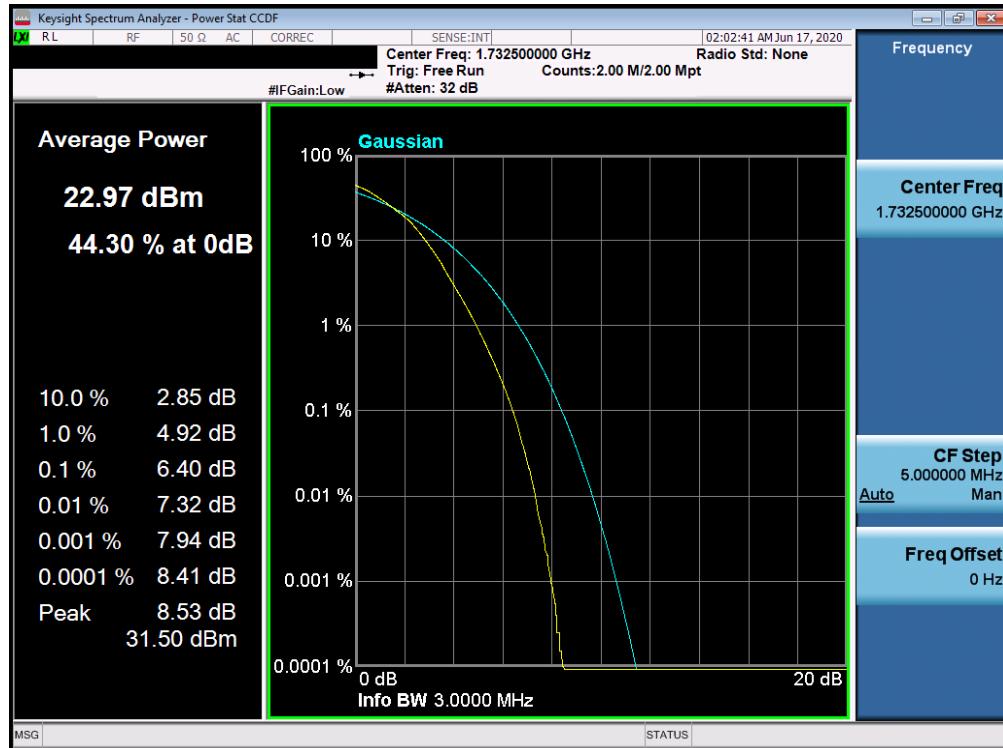


Plot 7-349. PAR Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 207 of 355

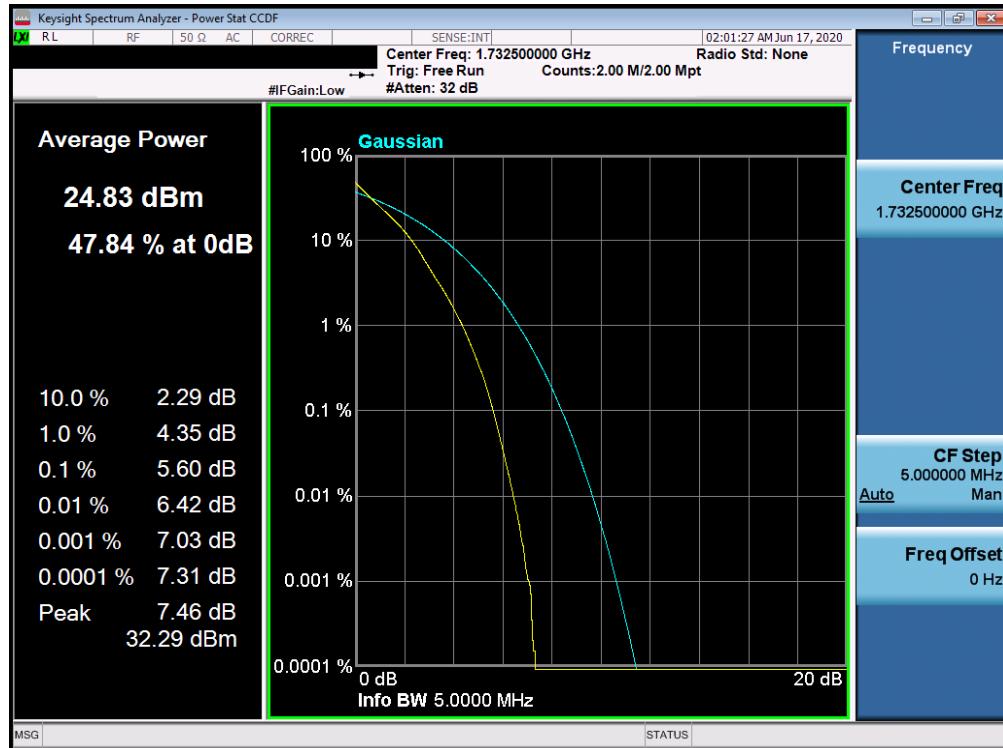


Plot 7-350. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

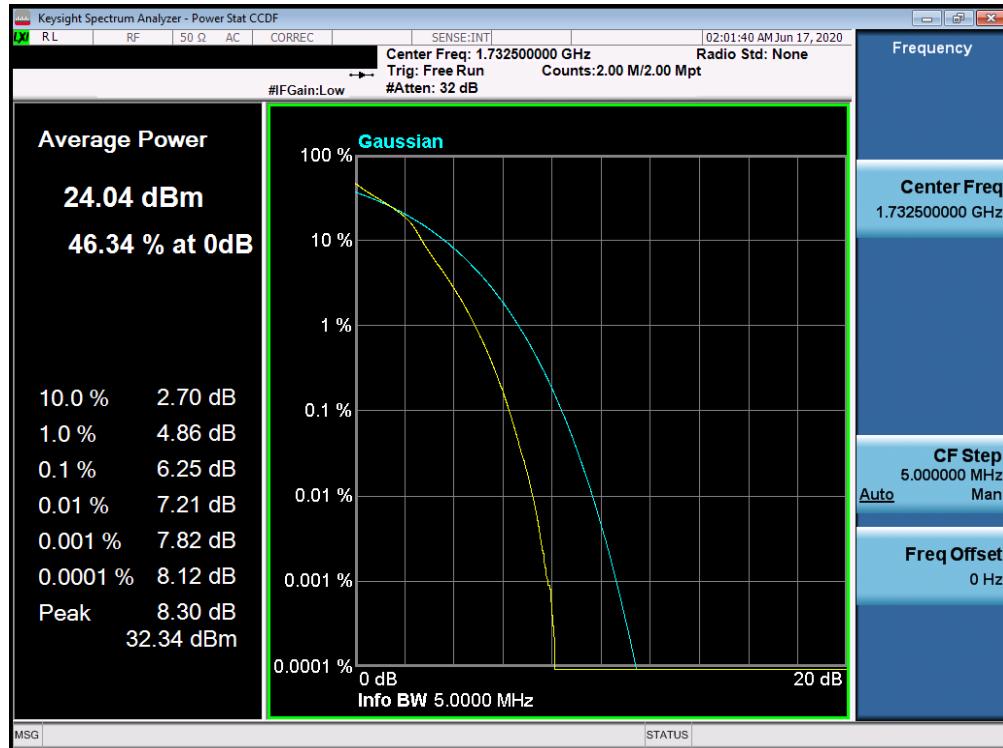


Plot 7-351. PAR Plot (Band 4 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 208 of 355	

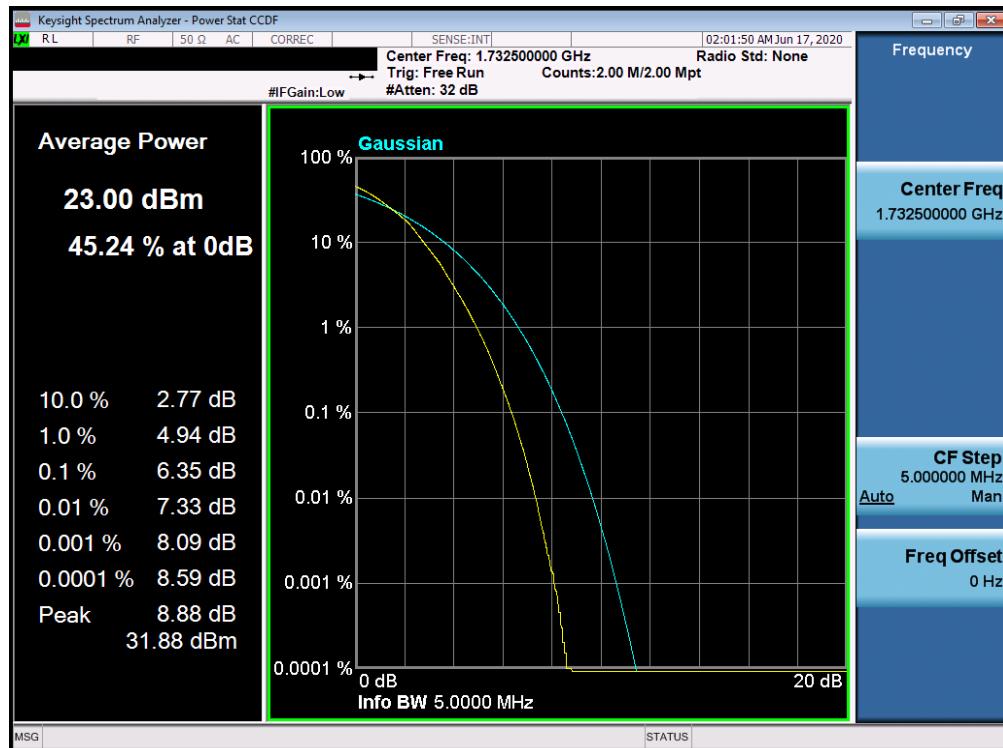


Plot 7-352. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

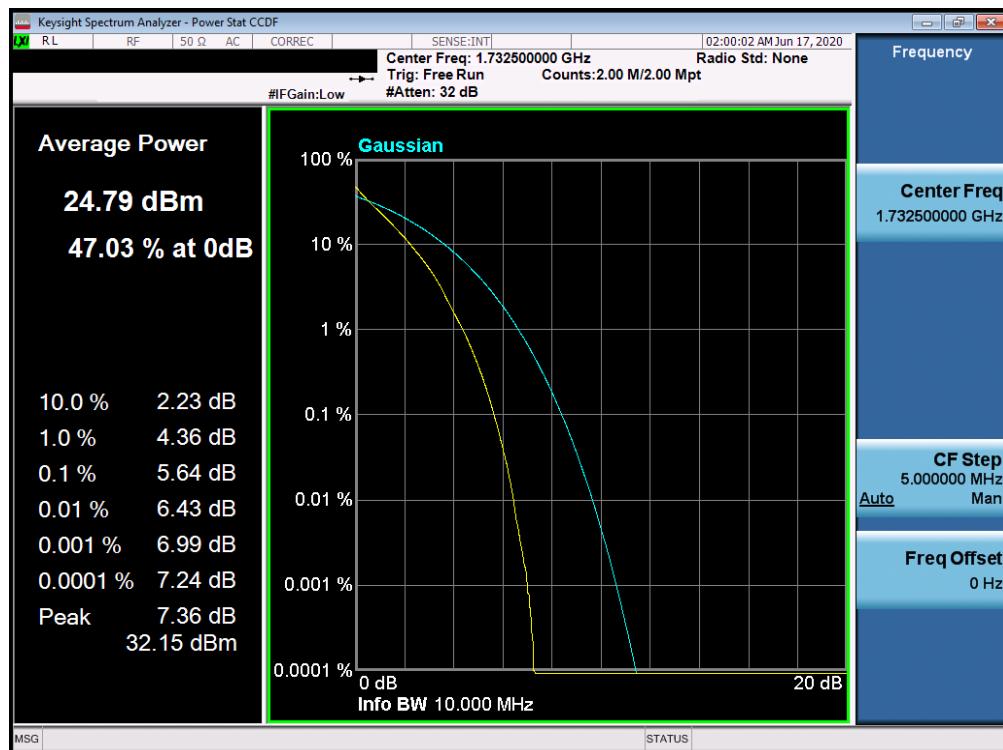


Plot 7-353. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 209 of 355	

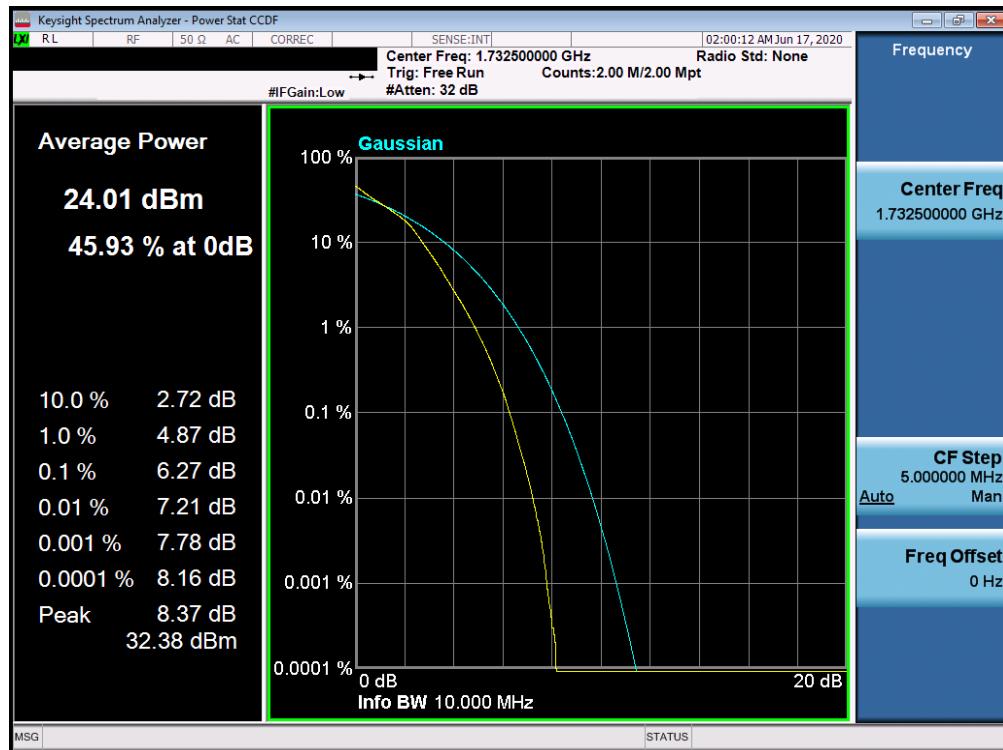


Plot 7-354. PAR Plot (Band 4 - 5.0MHz 64-QAM - Full RB Configuration)

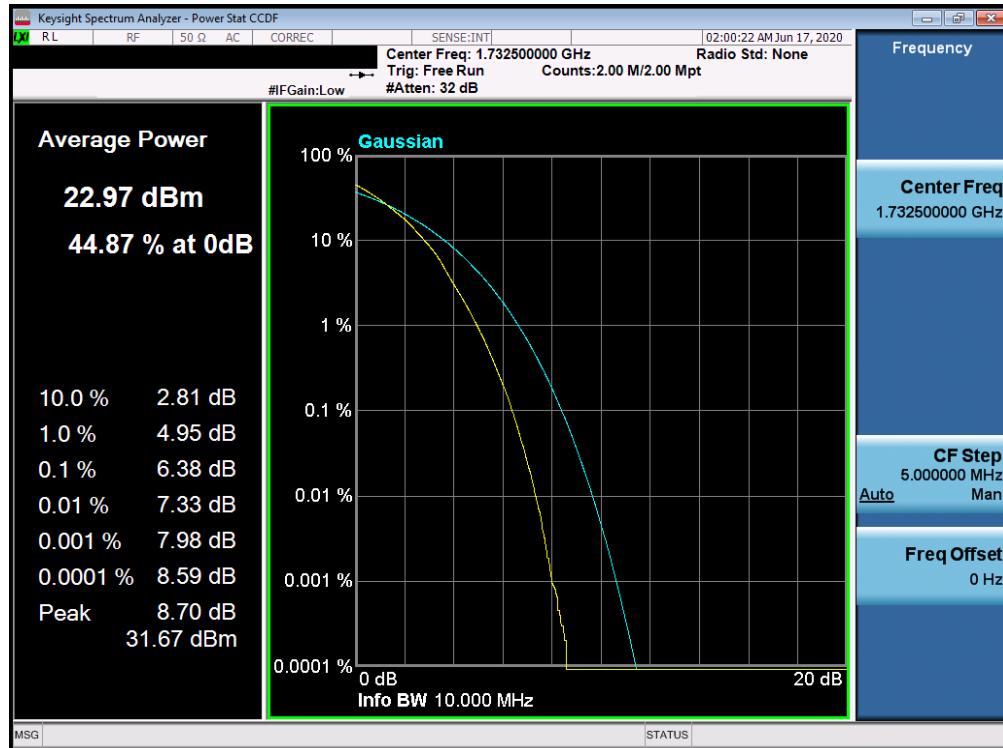


Plot 7-355. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 210 of 355	

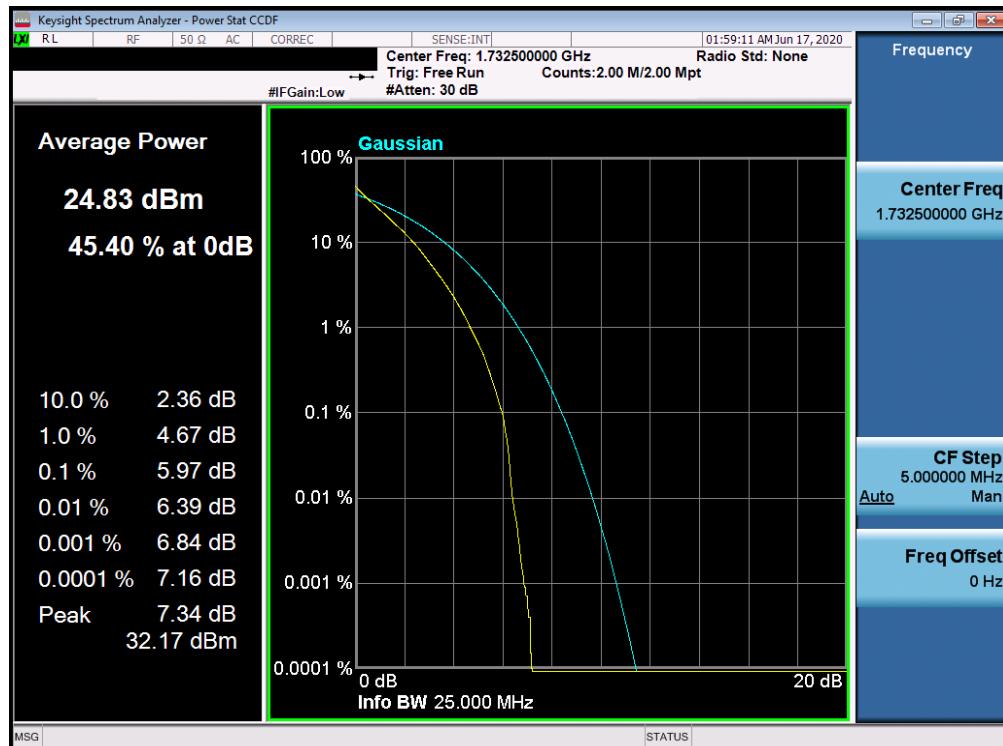


Plot 7-356. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

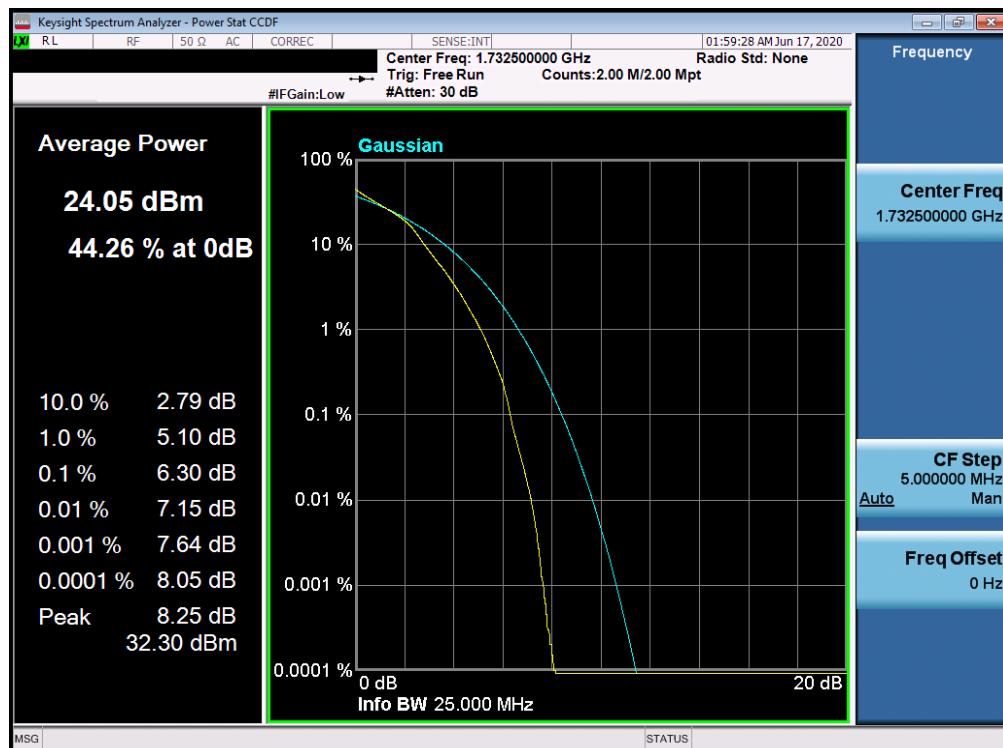


Plot 7-357. PAR Plot (Band 4 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 211 of 355	

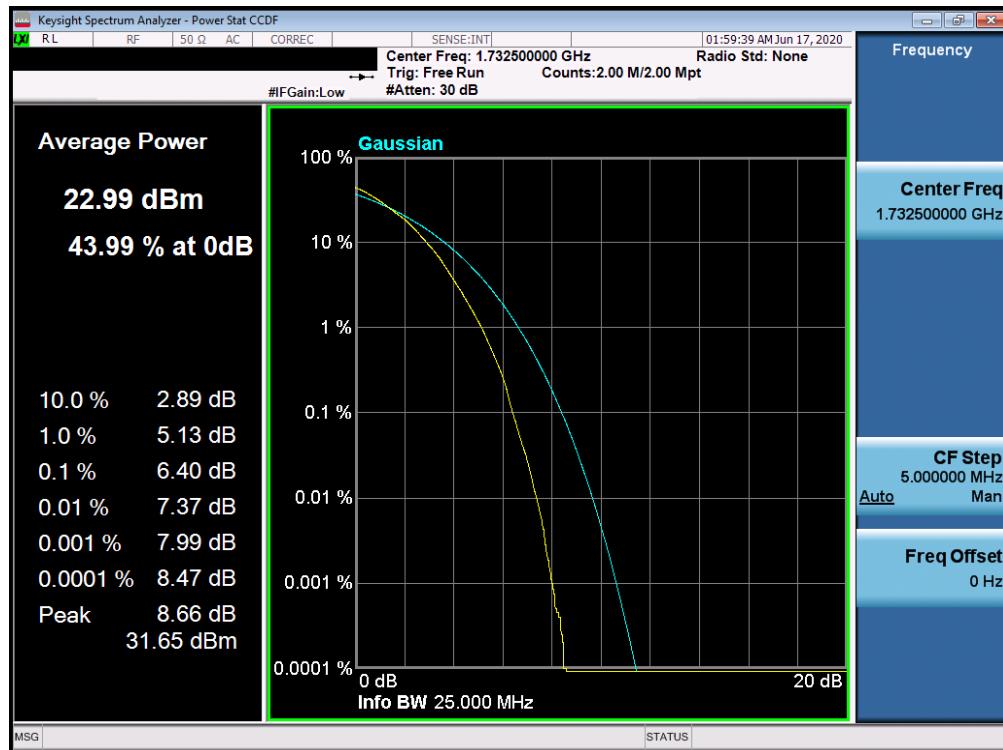


Plot 7-358. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

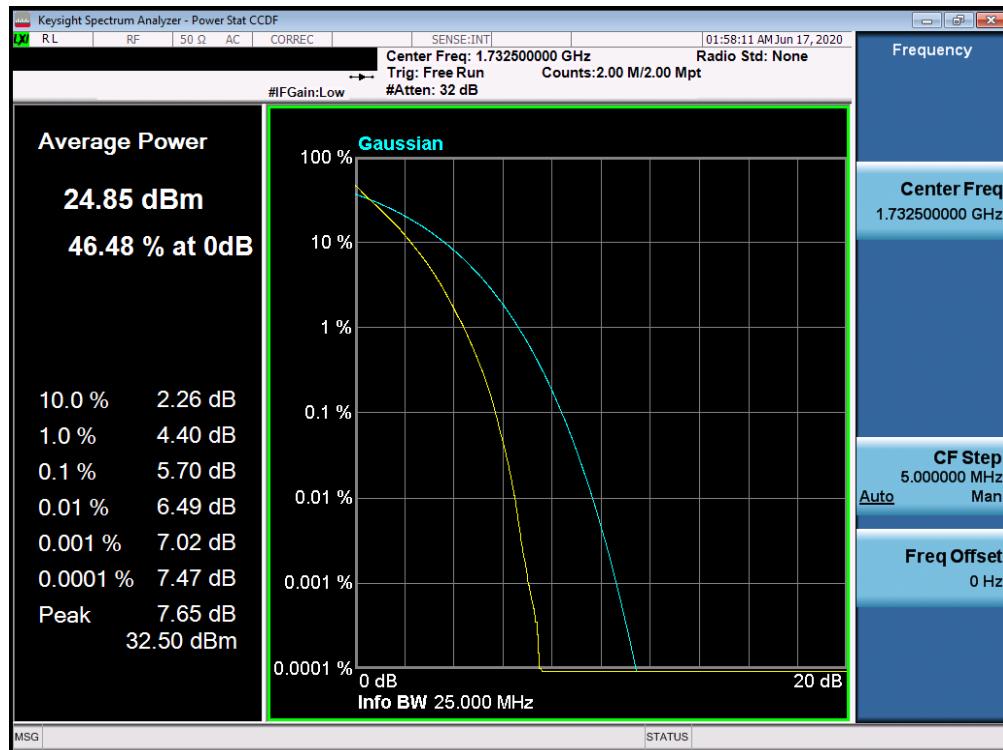


Plot 7-359. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 212 of 355	

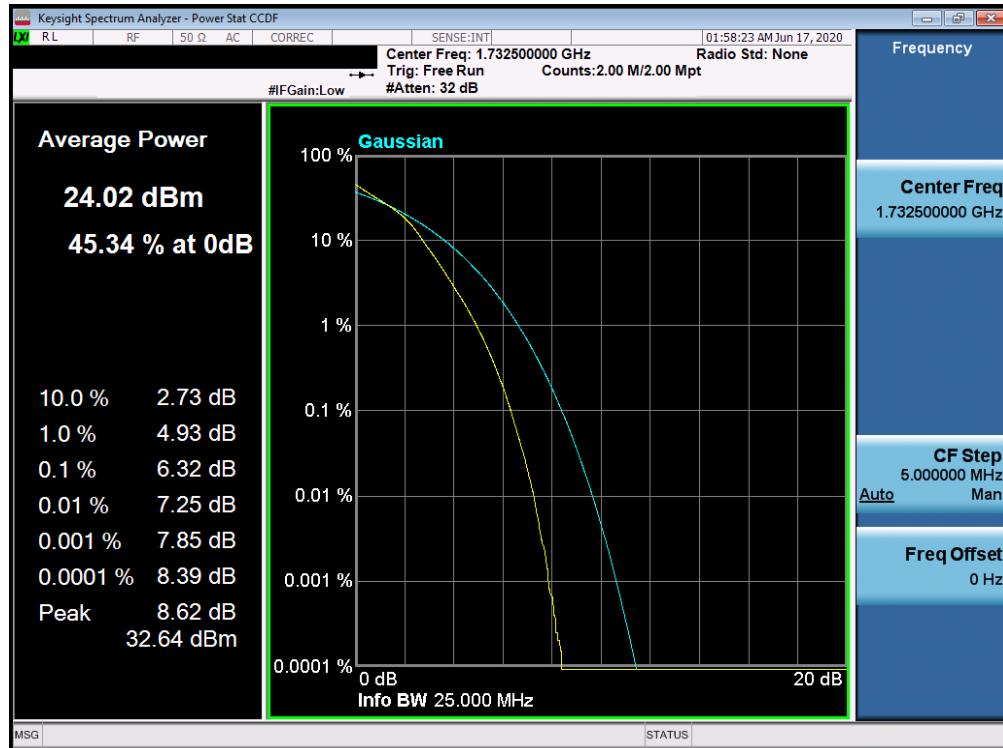


Plot 7-360. PAR Plot (Band 4 - 15.0MHz 64-QAM - Full RB Configuration)

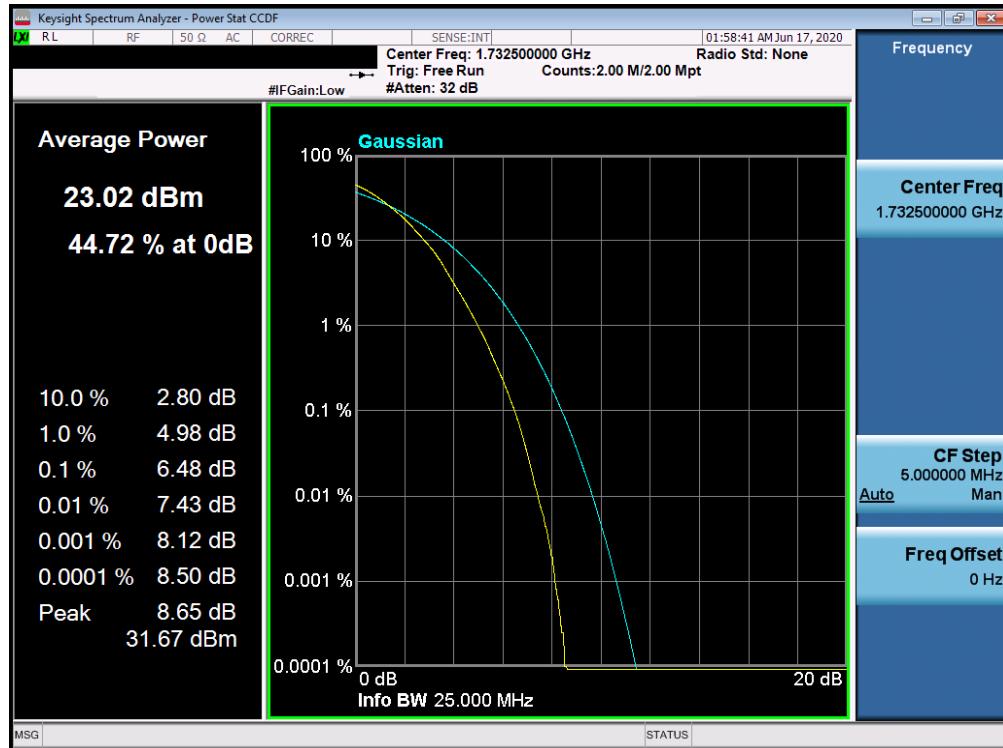


Plot 7-361. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 213 of 355



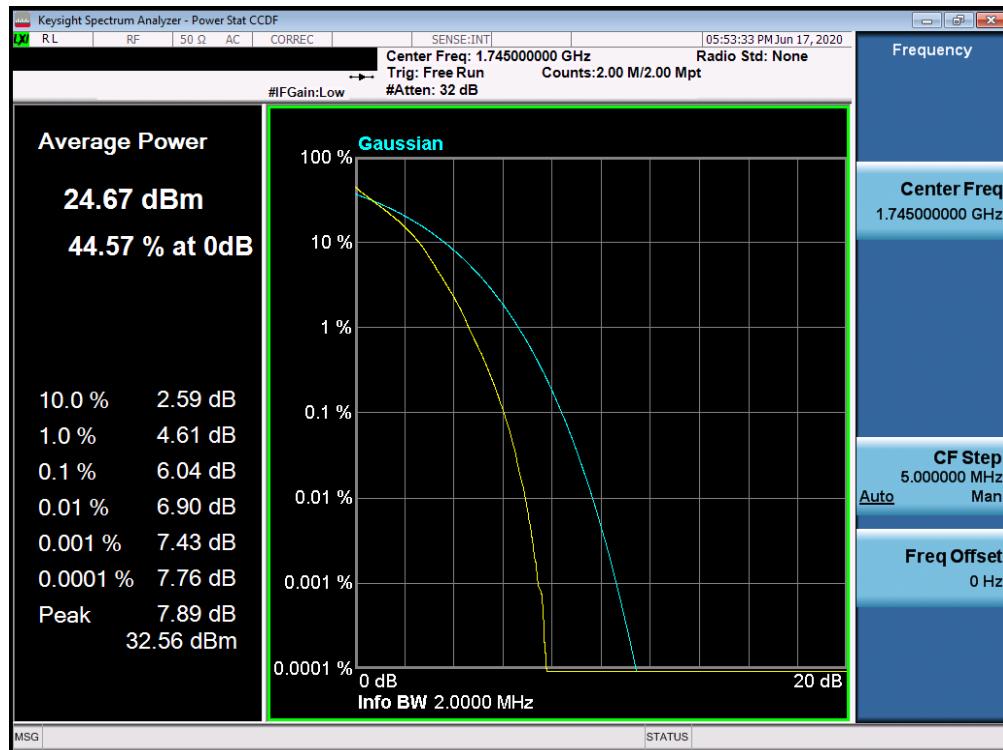
Plot 7-362. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)



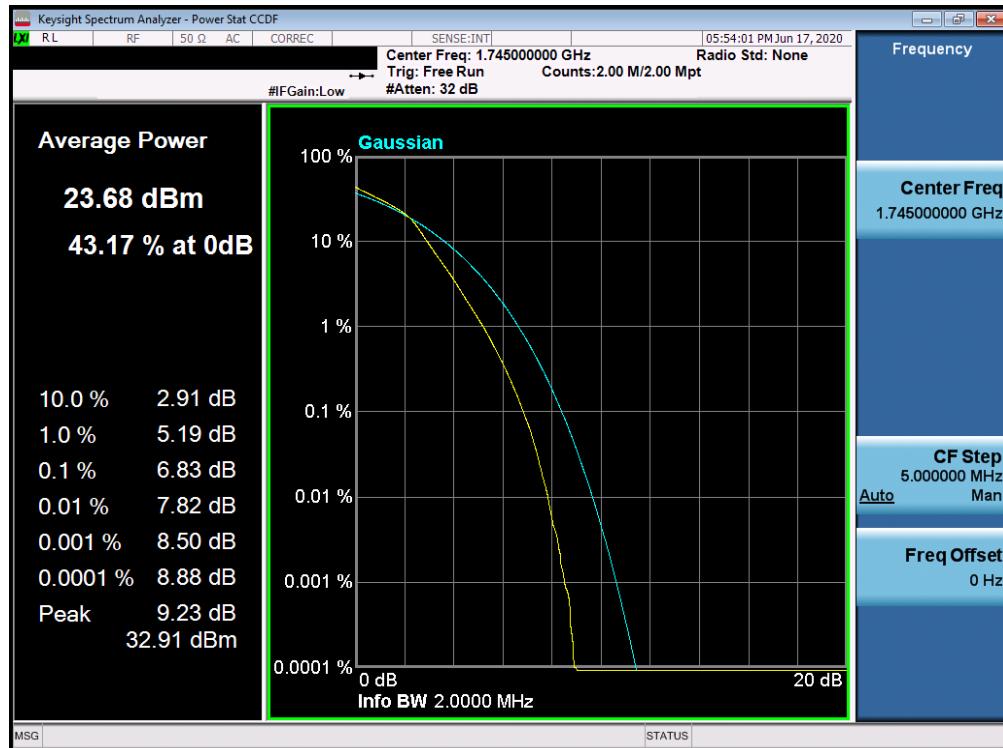
Plot 7-363. PAR Plot (Band 4 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 214 of 355

Band 66

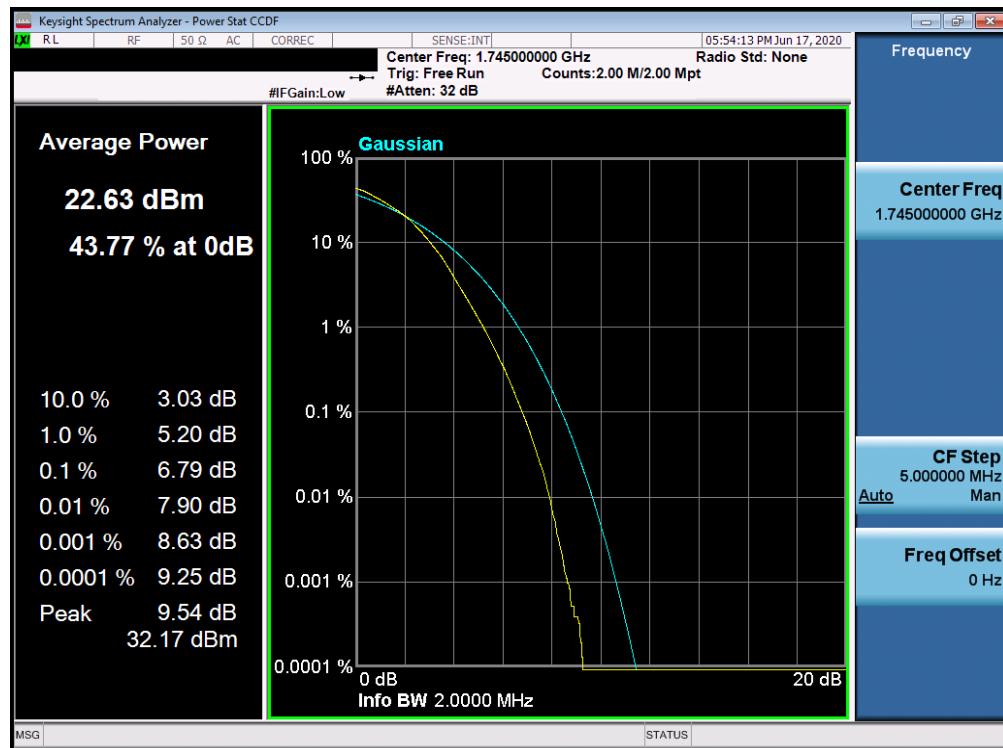


Plot 7-364. PAR Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

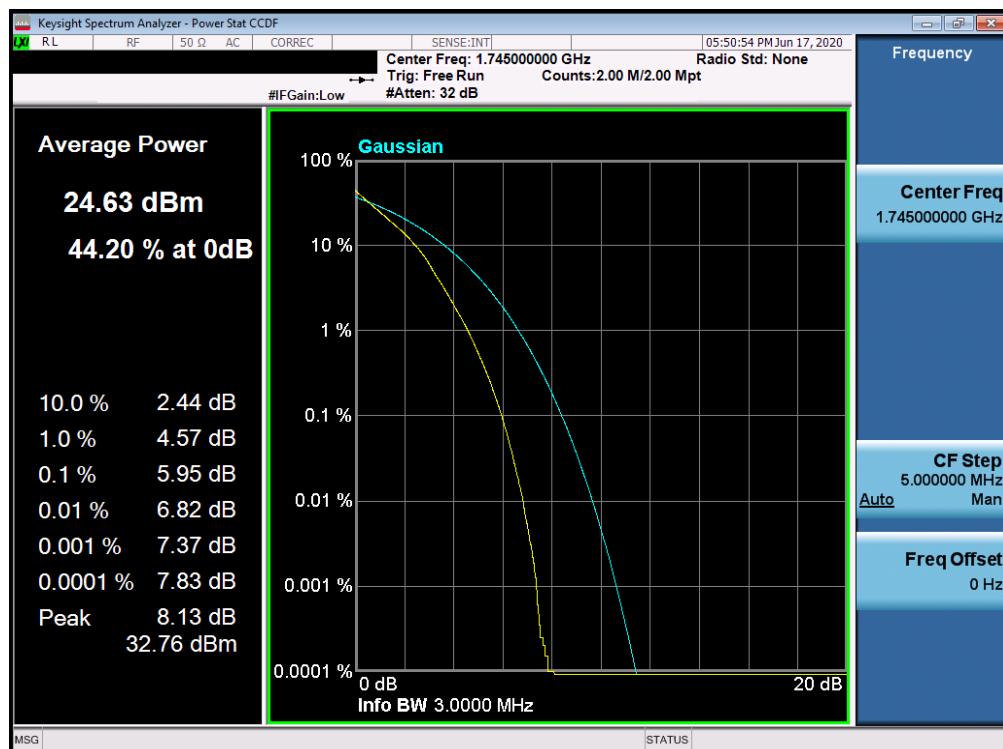


Plot 7-365. PAR Plot (Band 66 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 215 of 355	

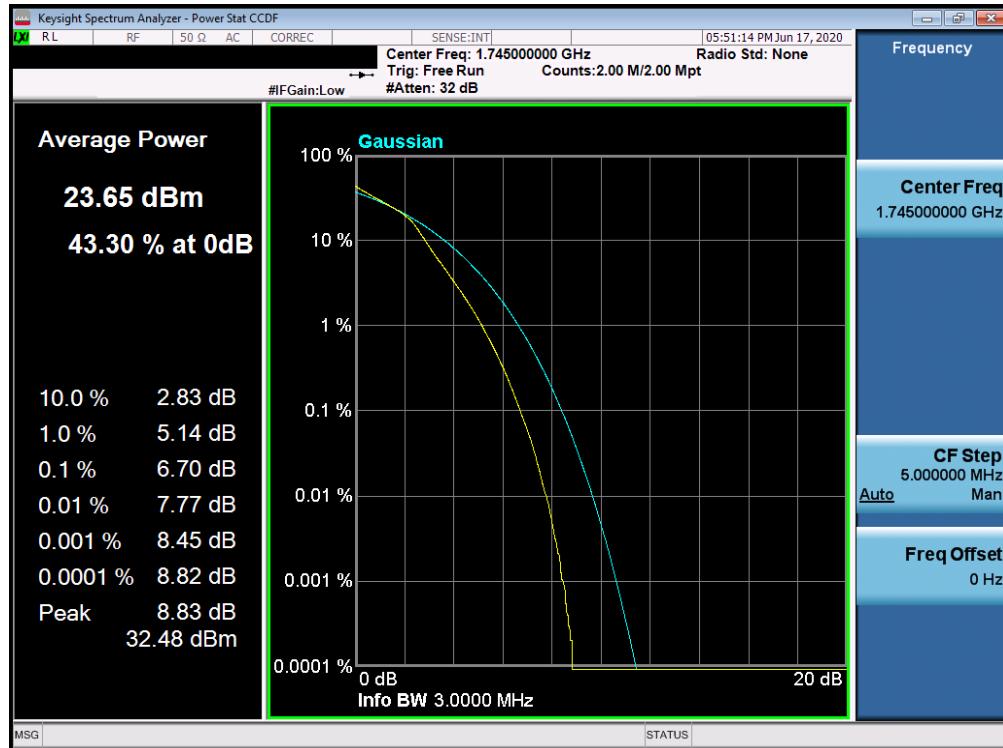


Plot 7-366. PAR Plot (Band 66 - 1.4MHz 64-QAM - Full RB Configuration)

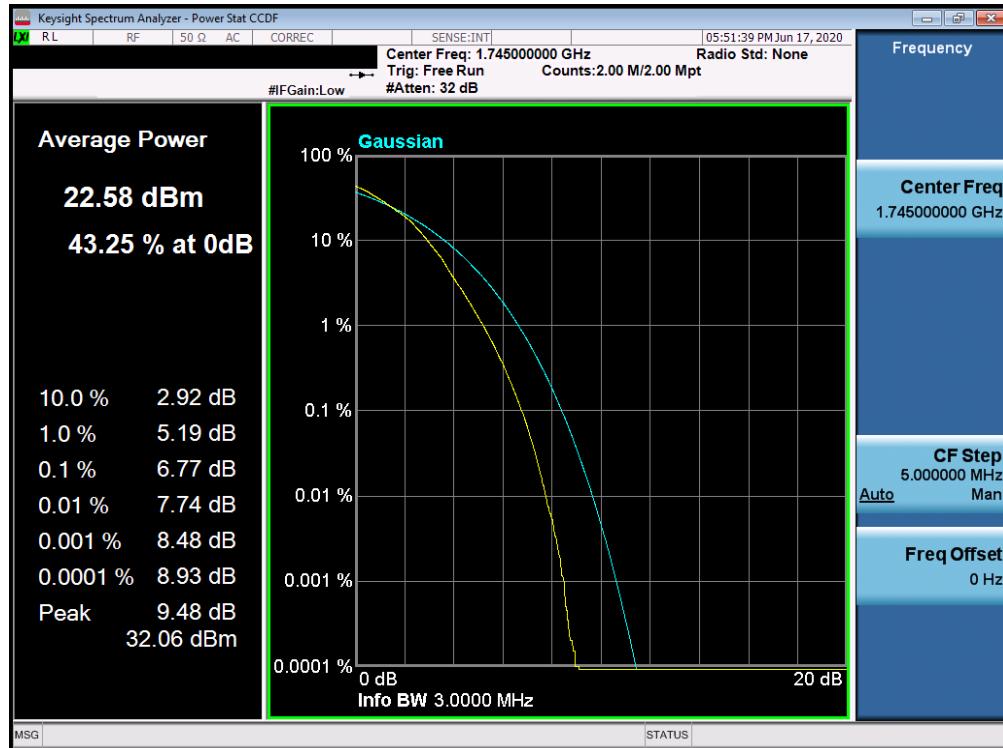


Plot 7-367. PAR Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 216 of 355

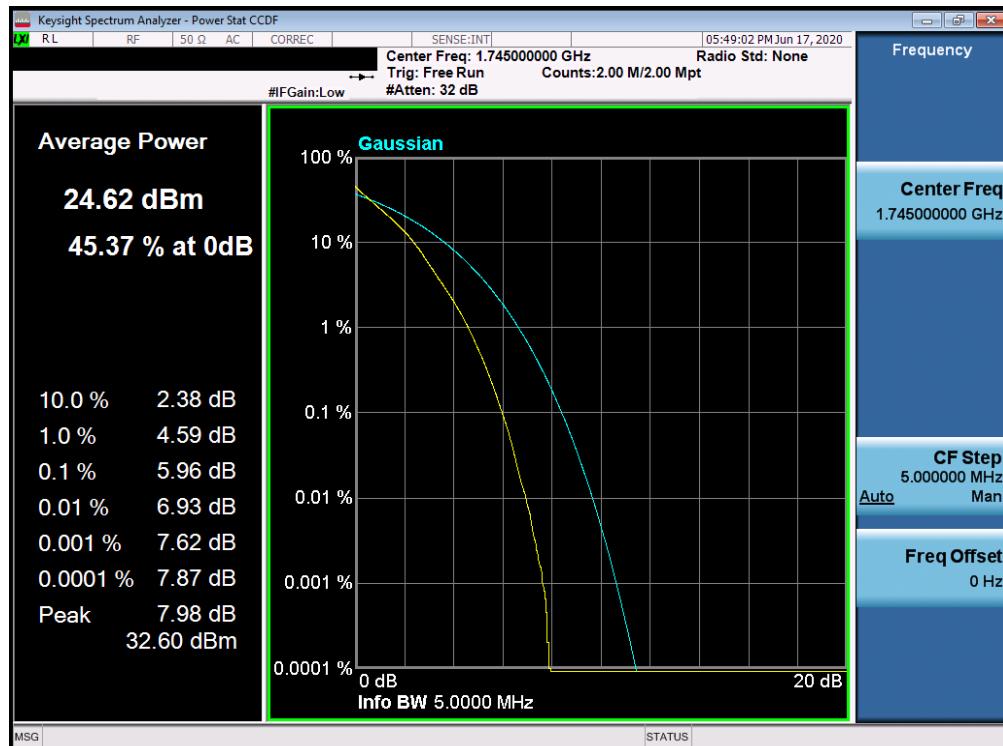


Plot 7-368. PAR Plot (Band 66 - 3.0MHz 16-QAM - Full RB Configuration)

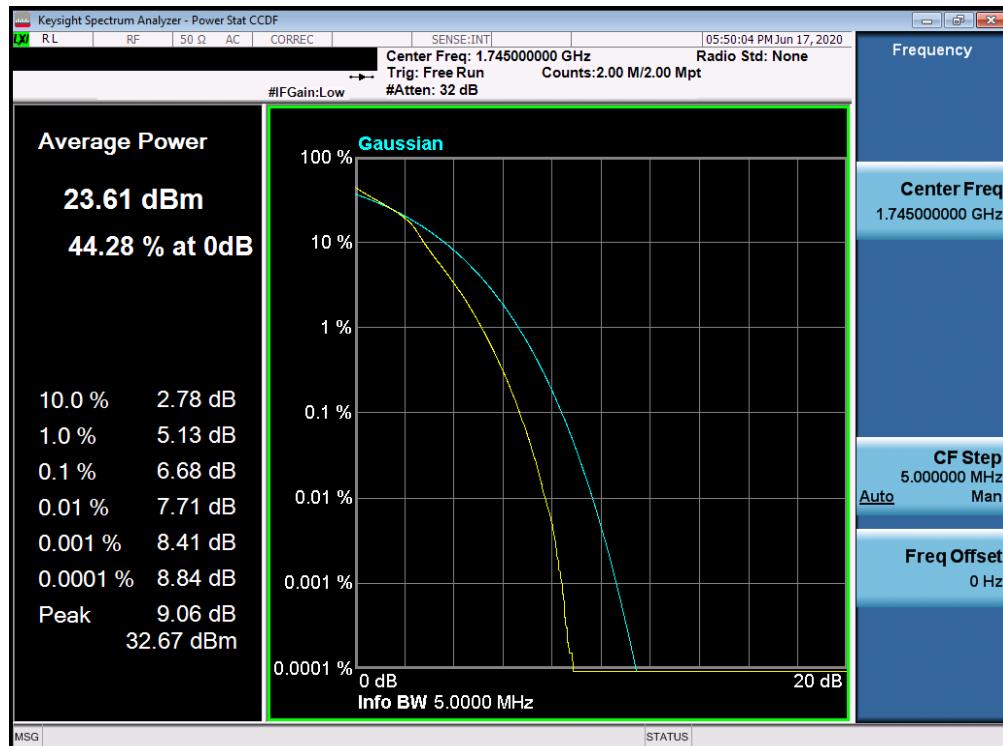


Plot 7-369. PAR Plot (Band 66 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 217 of 355

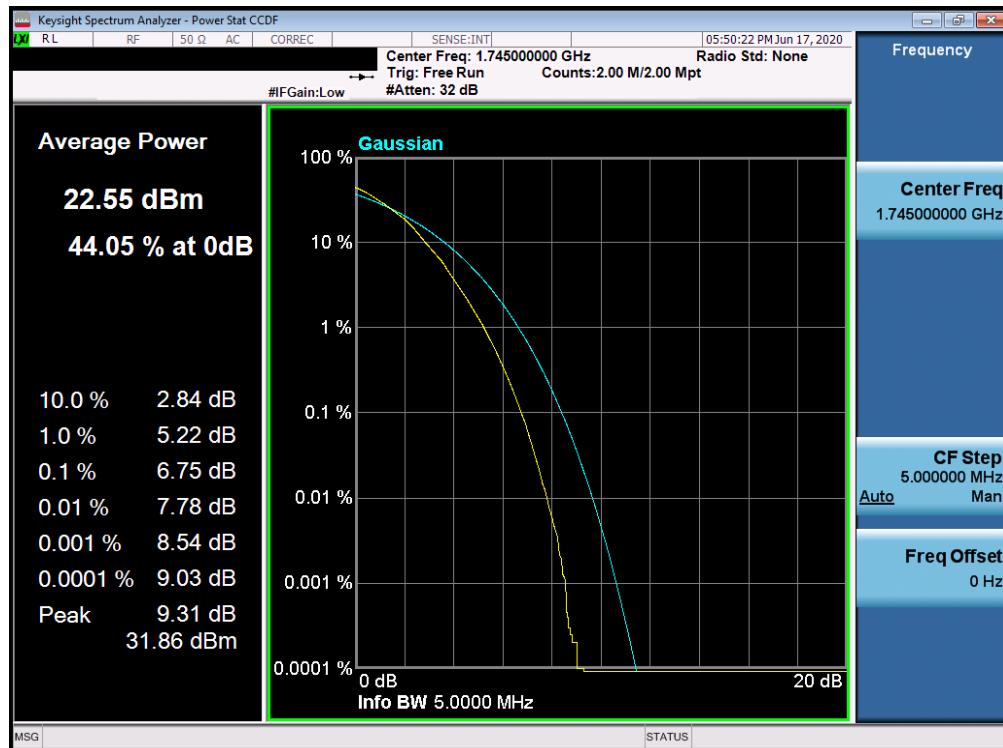


Plot 7-370. PAR Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

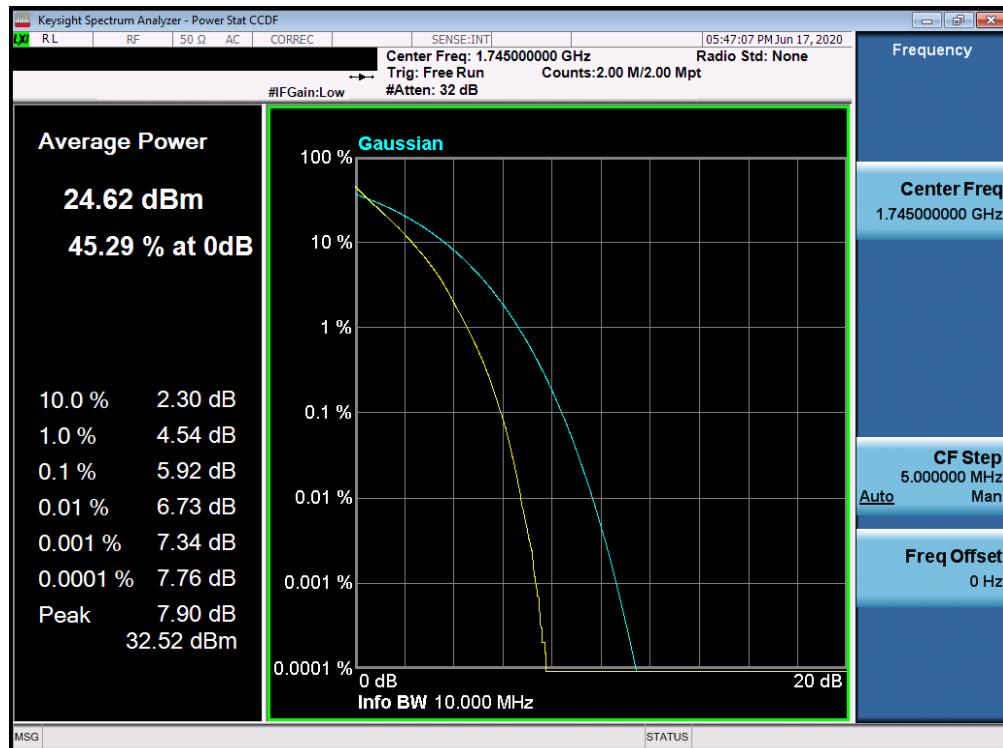


Plot 7-371. PAR Plot (Band 66 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 218 of 355	

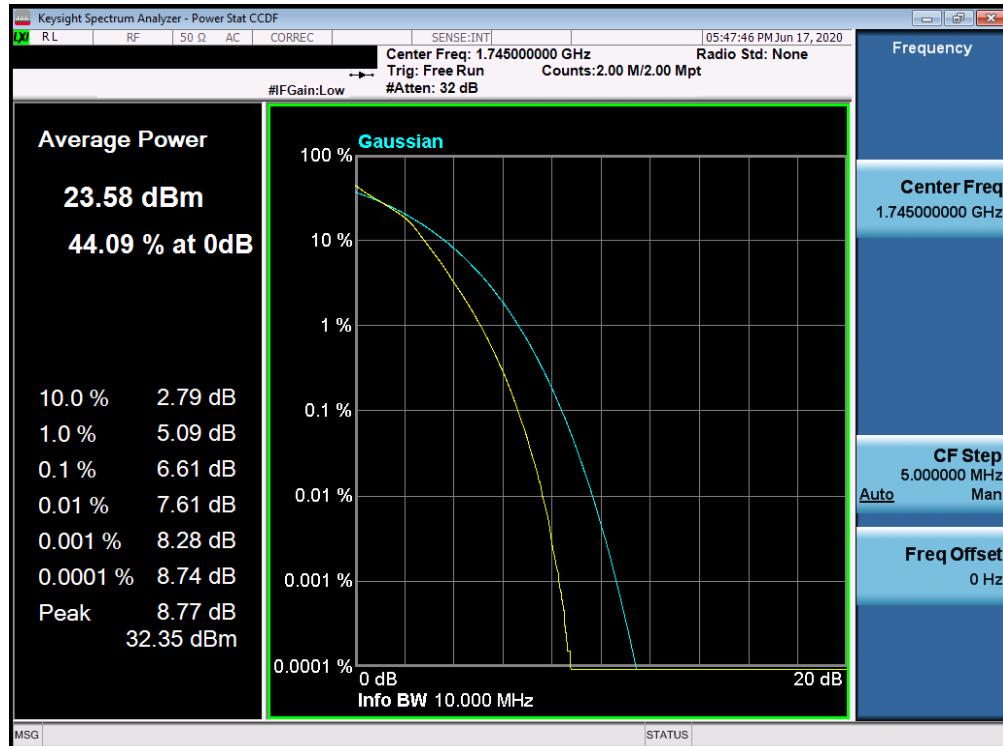


Plot 7-372. PAR Plot (Band 66 - 5.0MHz 64-QAM - Full RB Configuration)

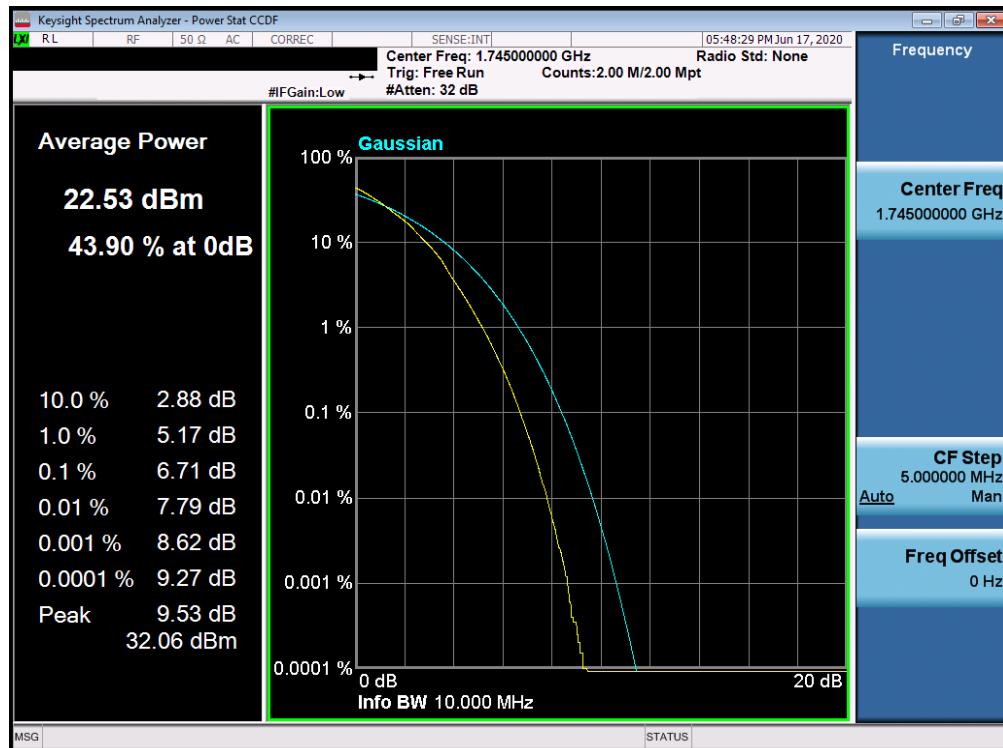


Plot 7-373. PAR Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 219 of 355	

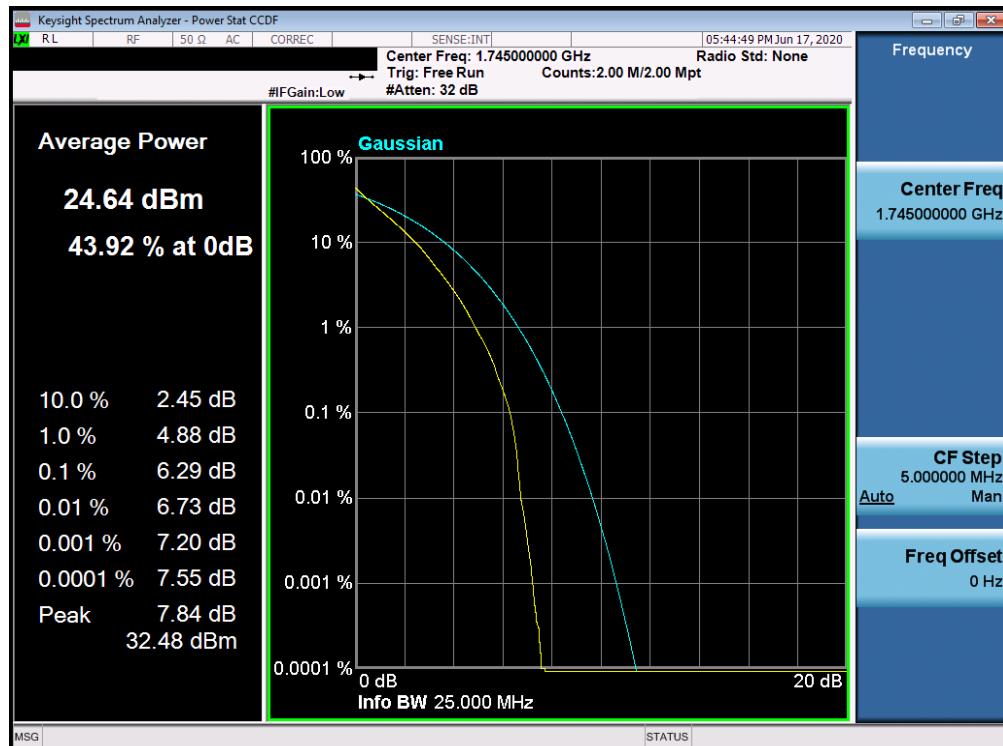


Plot 7-374. PAR Plot (Band 66 - 10.0MHz 16-QAM - Full RB Configuration)

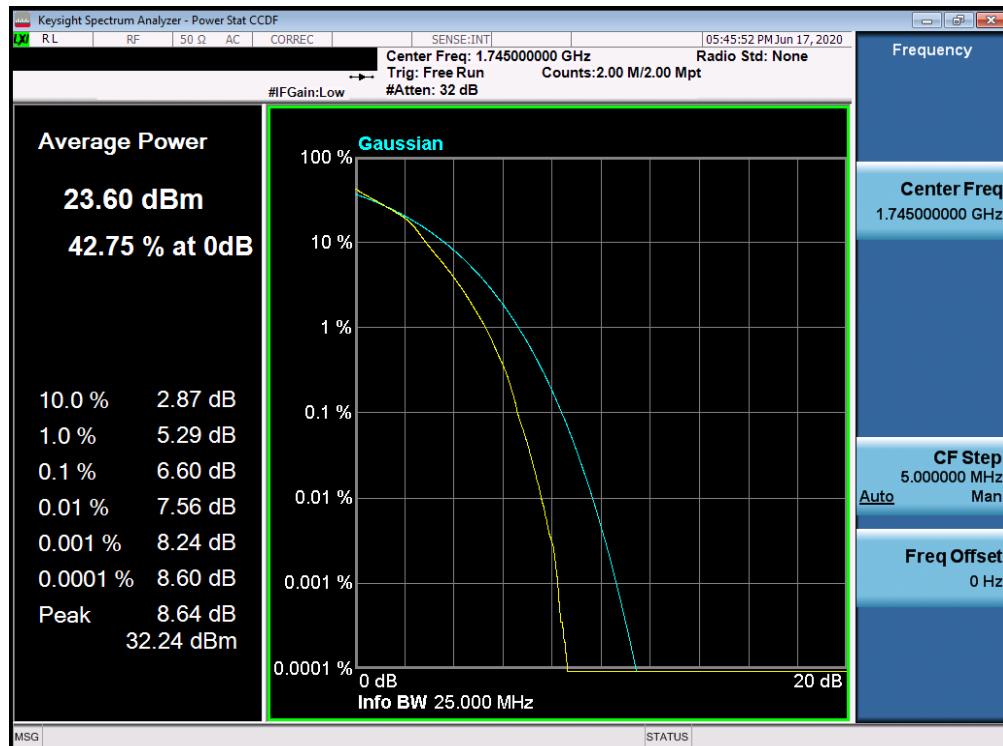


Plot 7-375. PAR Plot (Band 66 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 220 of 355	

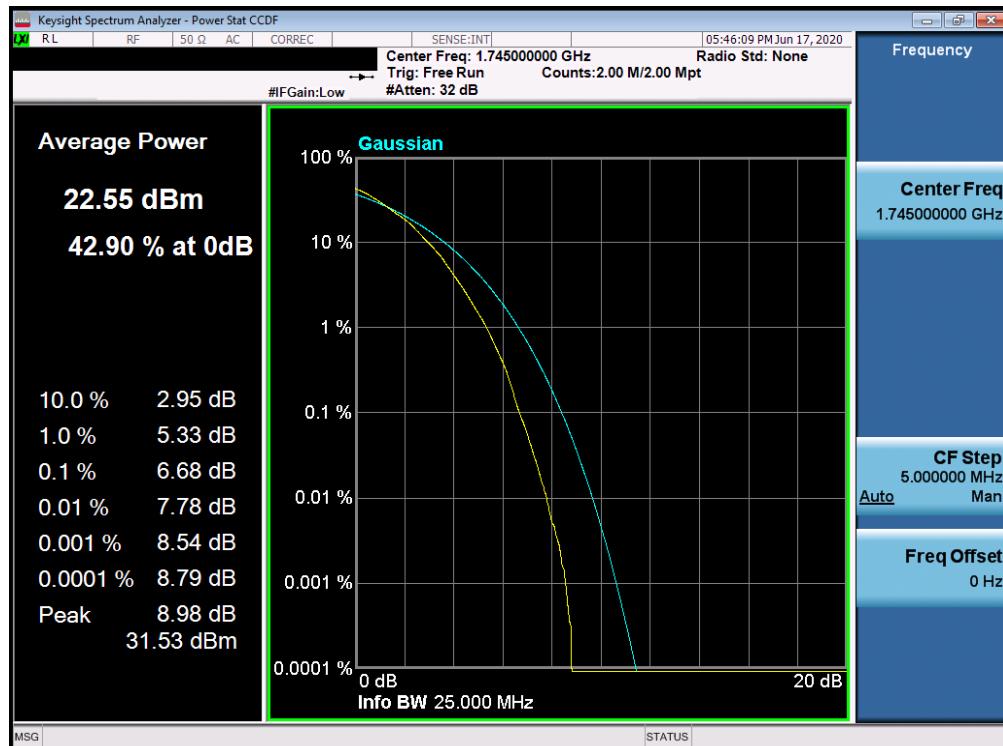


Plot 7-376. PAR Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

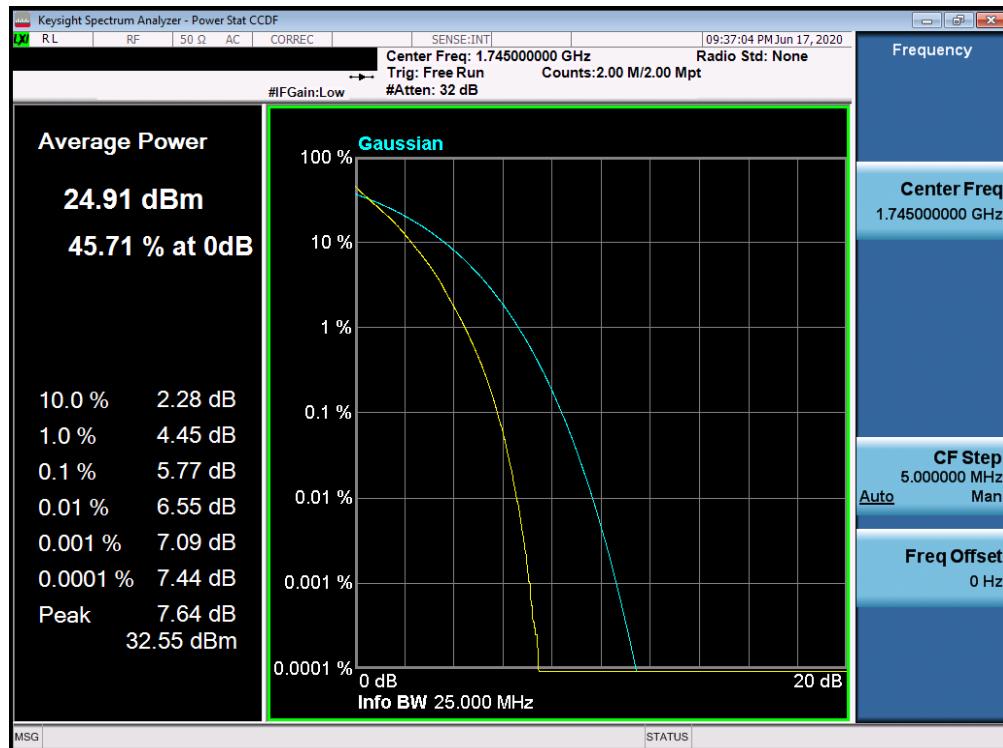


Plot 7-377. PAR Plot (Band 66 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 221 of 355

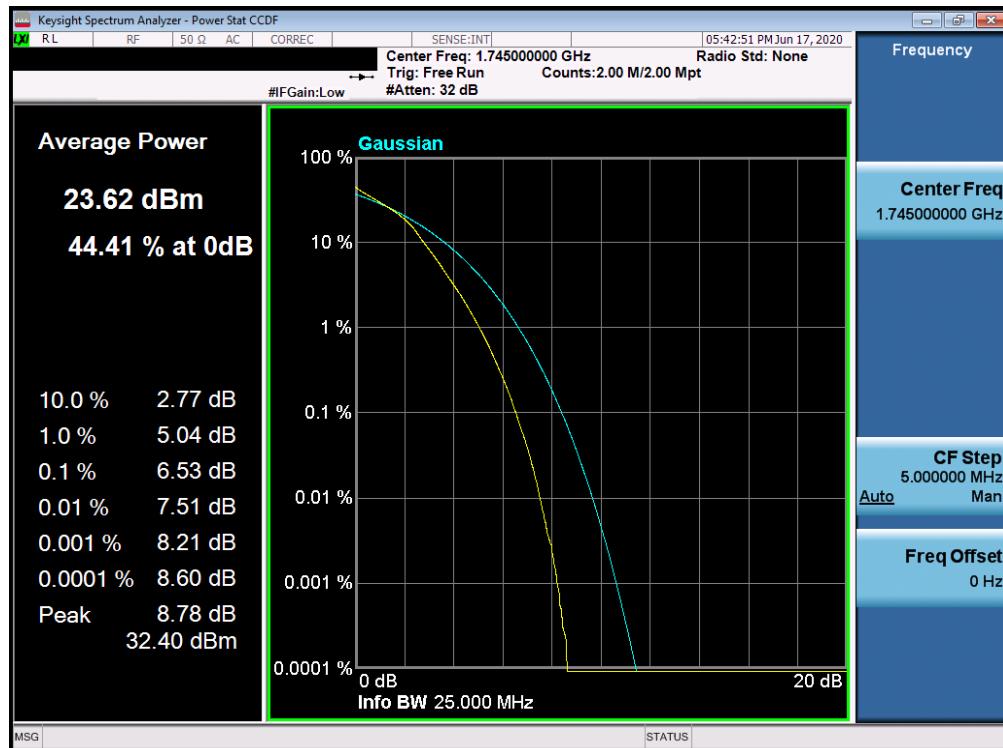


Plot 7-378. PAR Plot (Band 66 - 15.0MHz 64-QAM - Full RB Configuration)

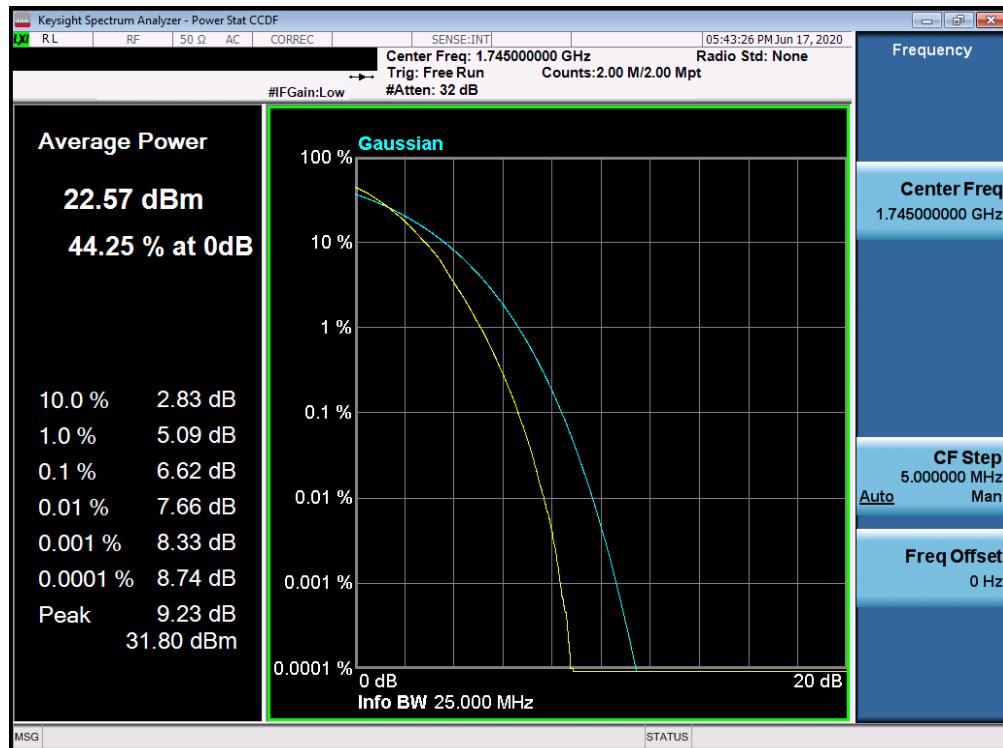


Plot 7-379. PAR Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 222 of 355	



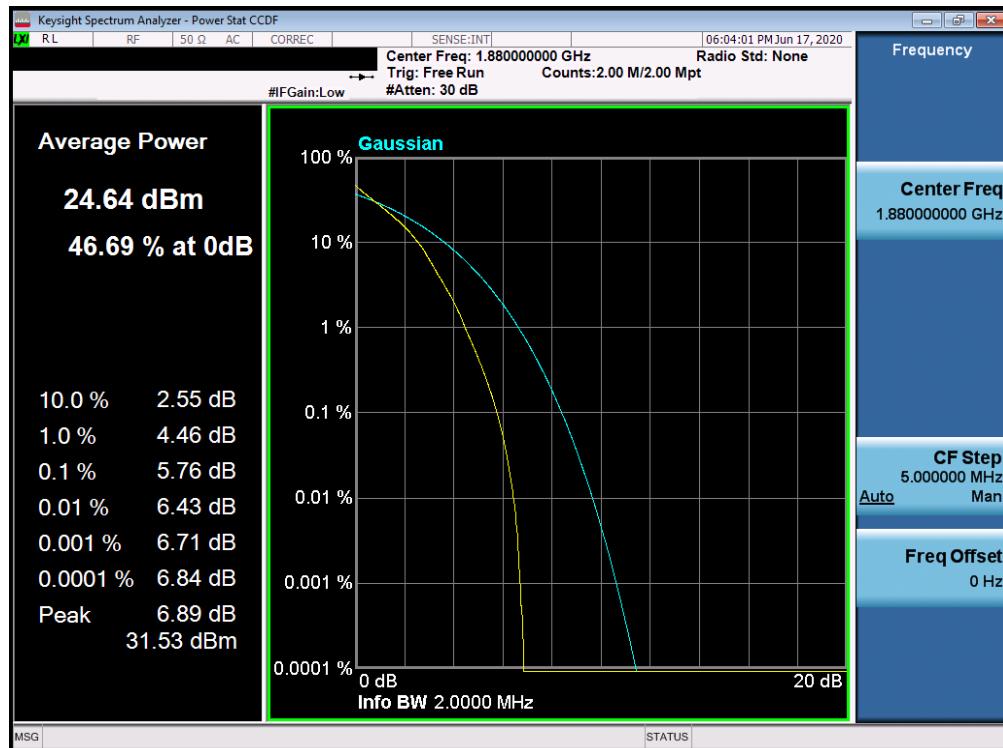
Plot 7-380. PAR Plot (Band 66 - 20.0MHz 16-QAM - Full RB Configuration)



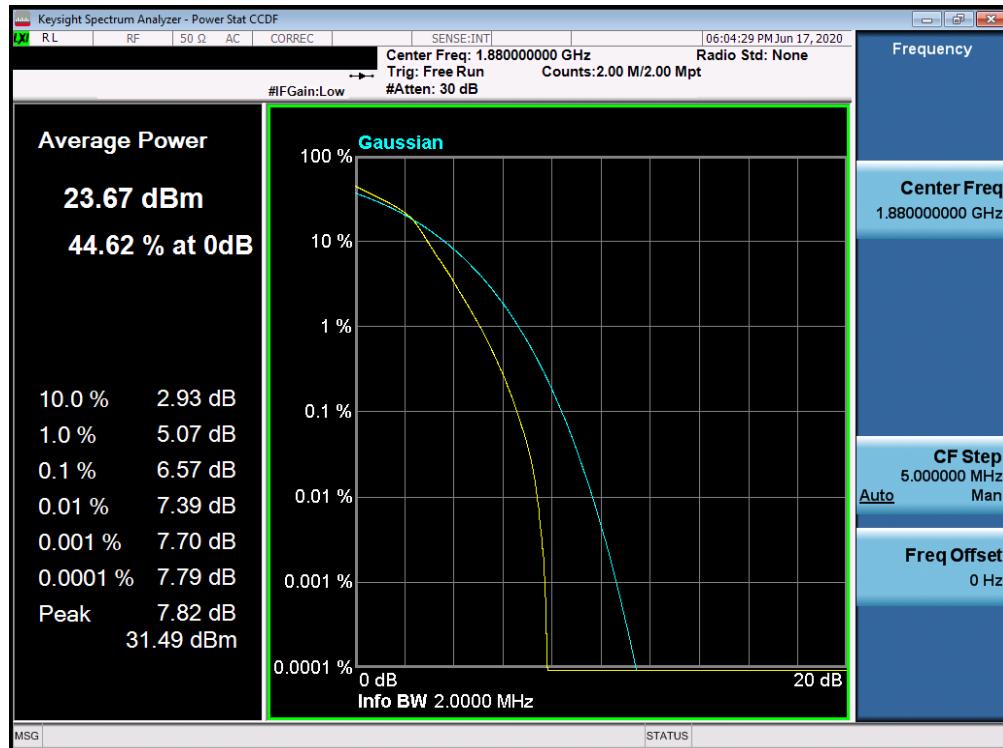
Plot 7-381. PAR Plot (Band 66 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 223 of 355	

Band 2

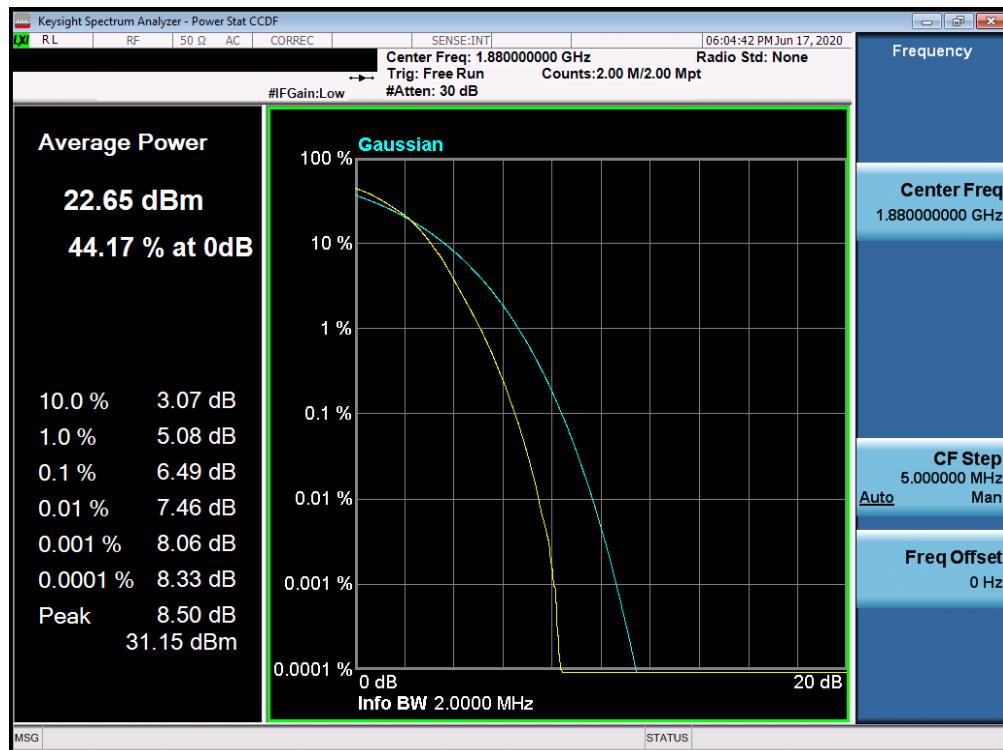


Plot 7-382. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

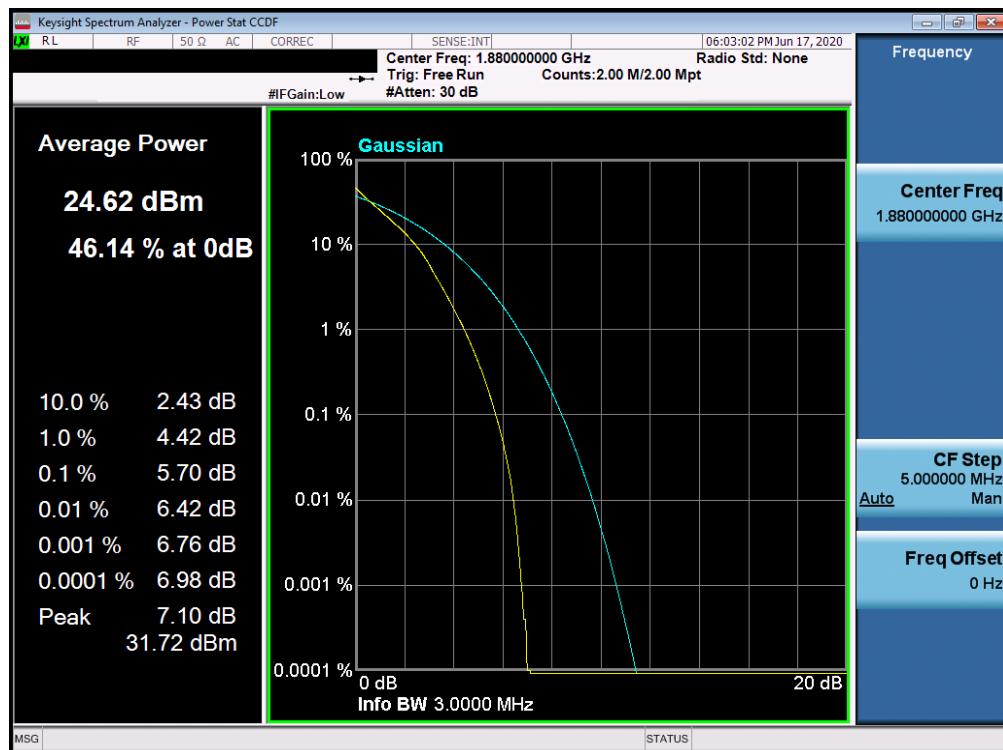


Plot 7-383. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 224 of 355

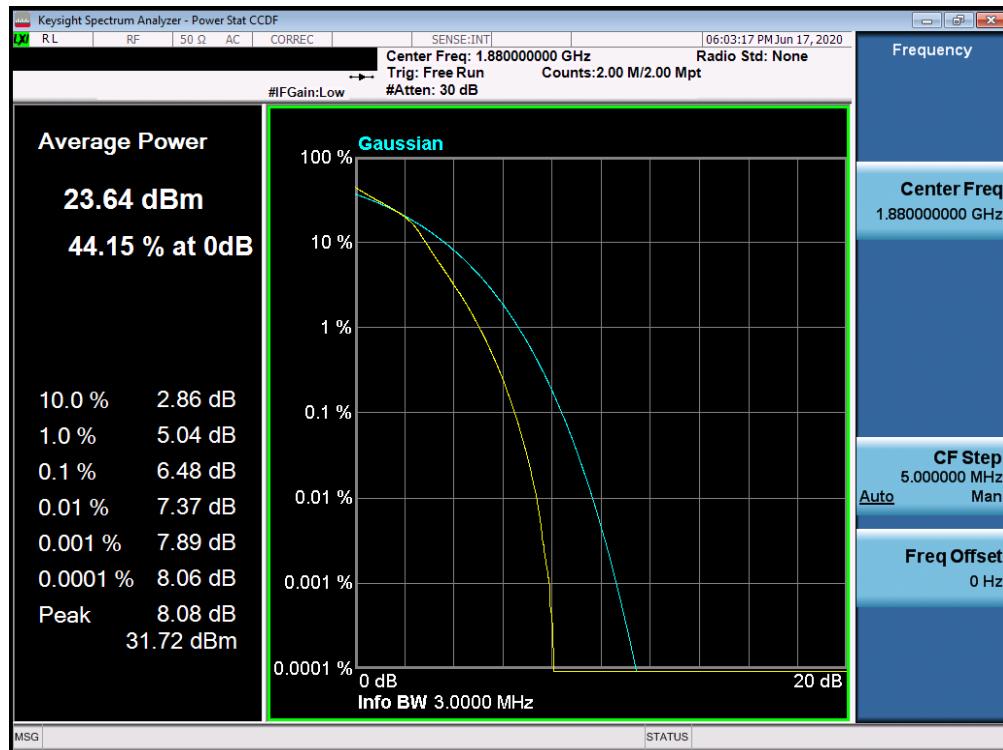


Plot 7-384. PAR Plot (Band 2 - 1.4MHz 64-QAM - Full RB Configuration)

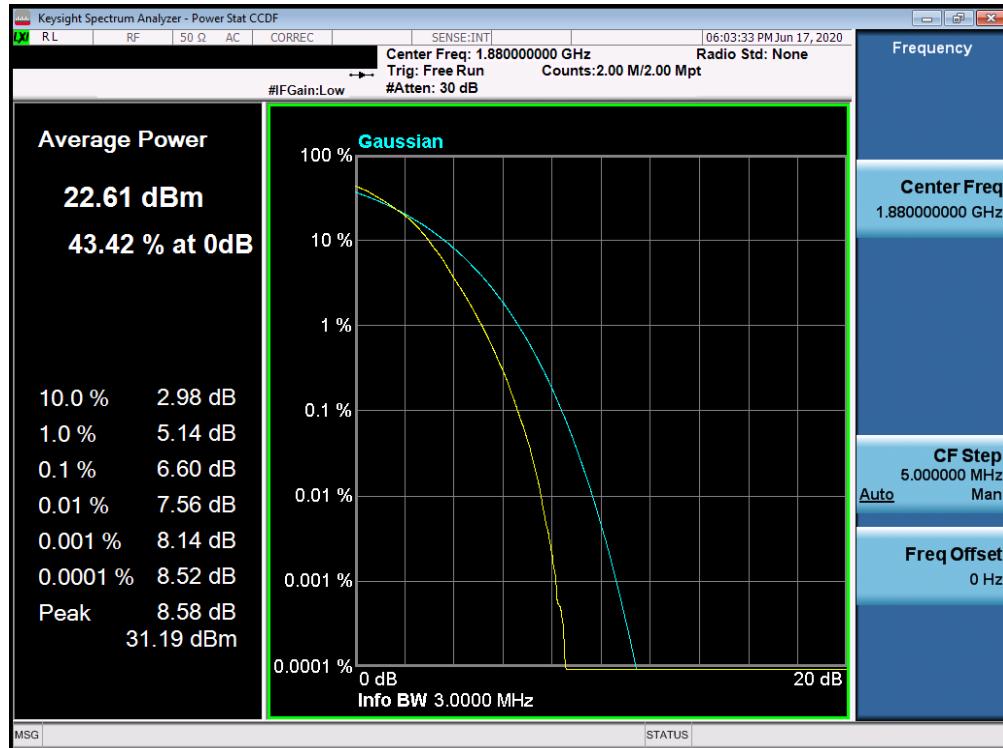


Plot 7-385. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 225 of 355	

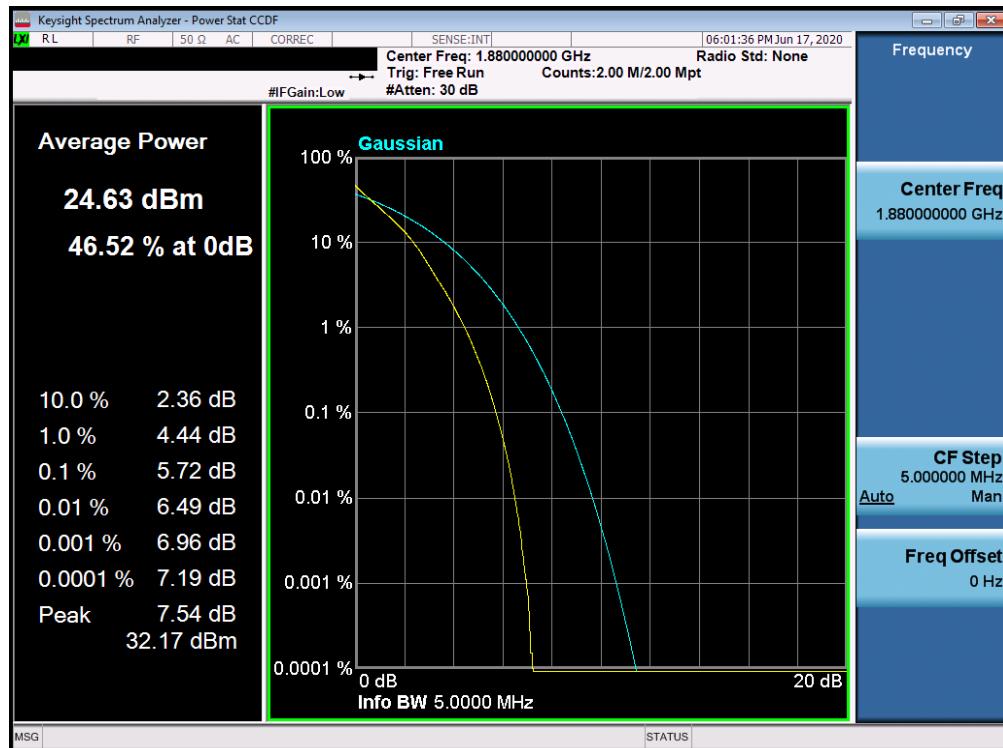


Plot 7-386. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

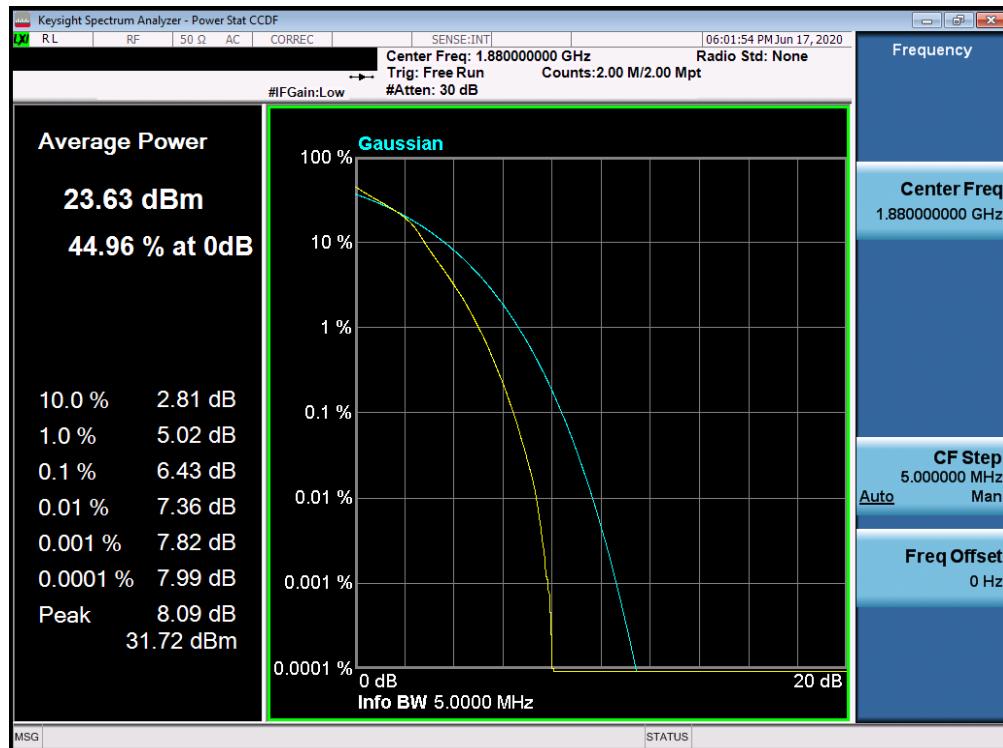


Plot 7-387. PAR Plot (Band 2 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 226 of 355	

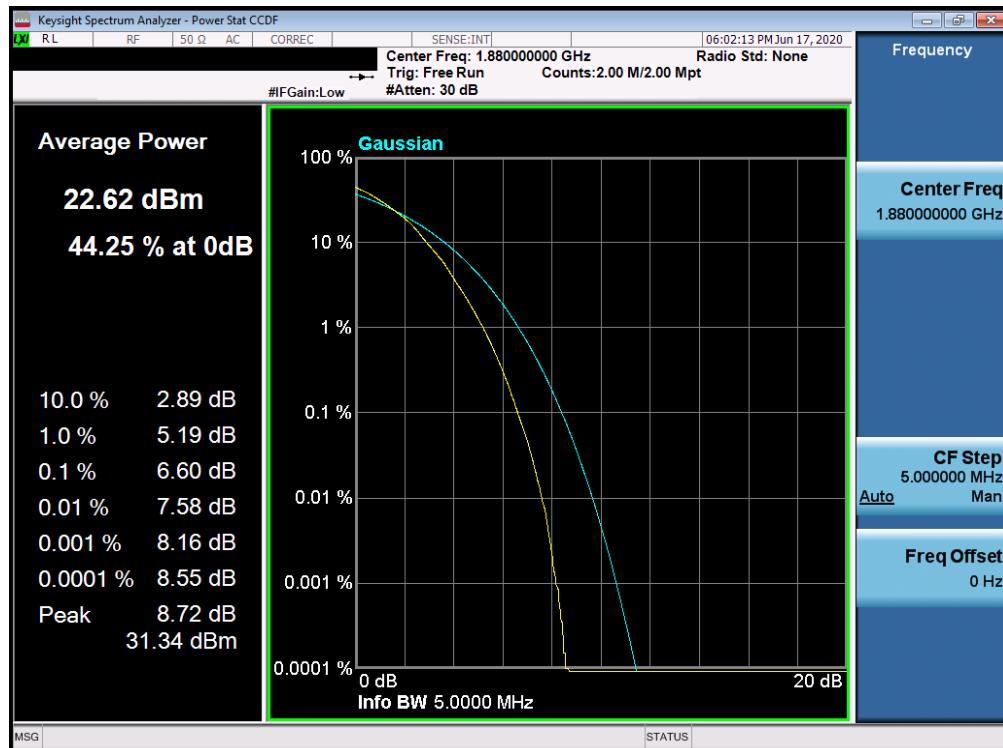


Plot 7-388. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

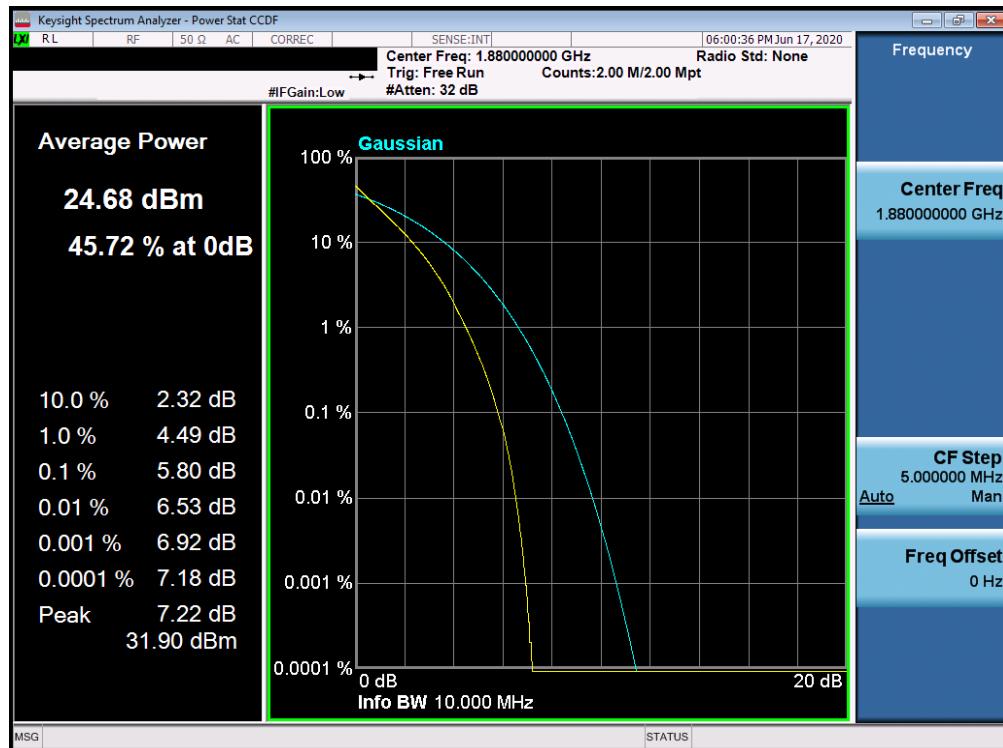


Plot 7-389. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 227 of 355	

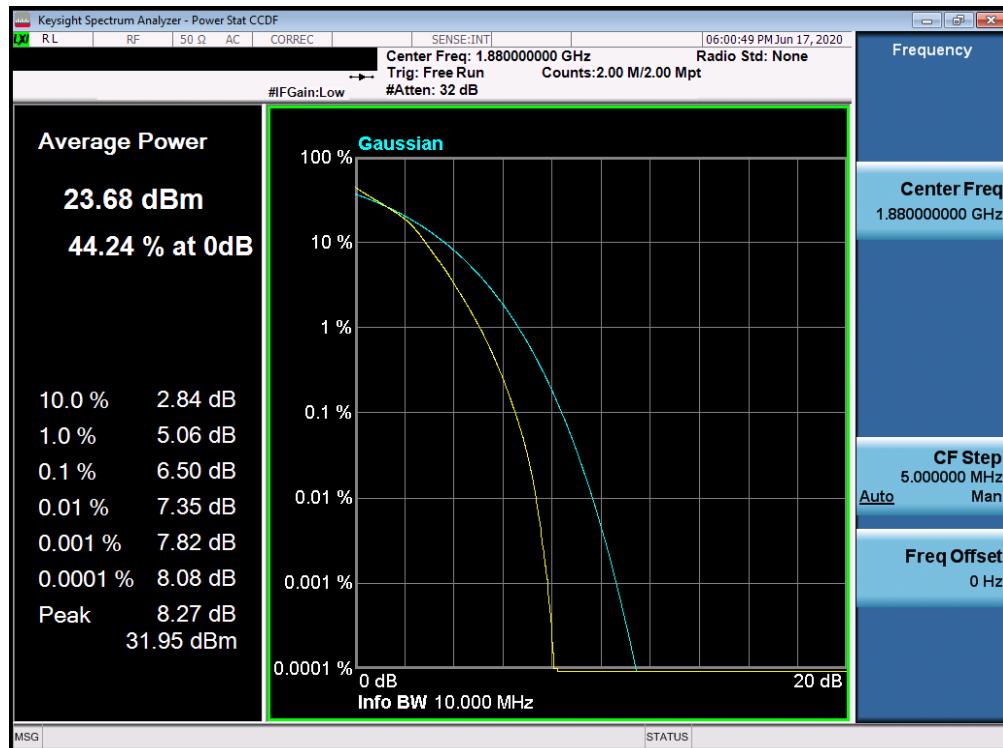


Plot 7-390. PAR Plot (Band 2 - 5.0MHz 64-QAM - Full RB Configuration)

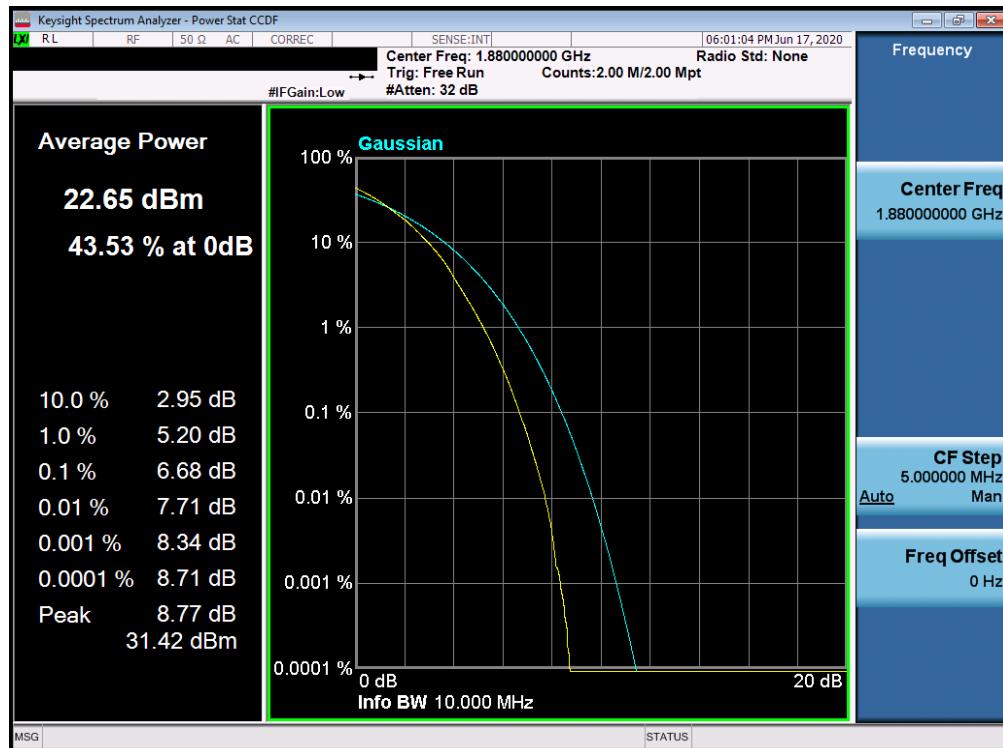


Plot 7-391. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 228 of 355

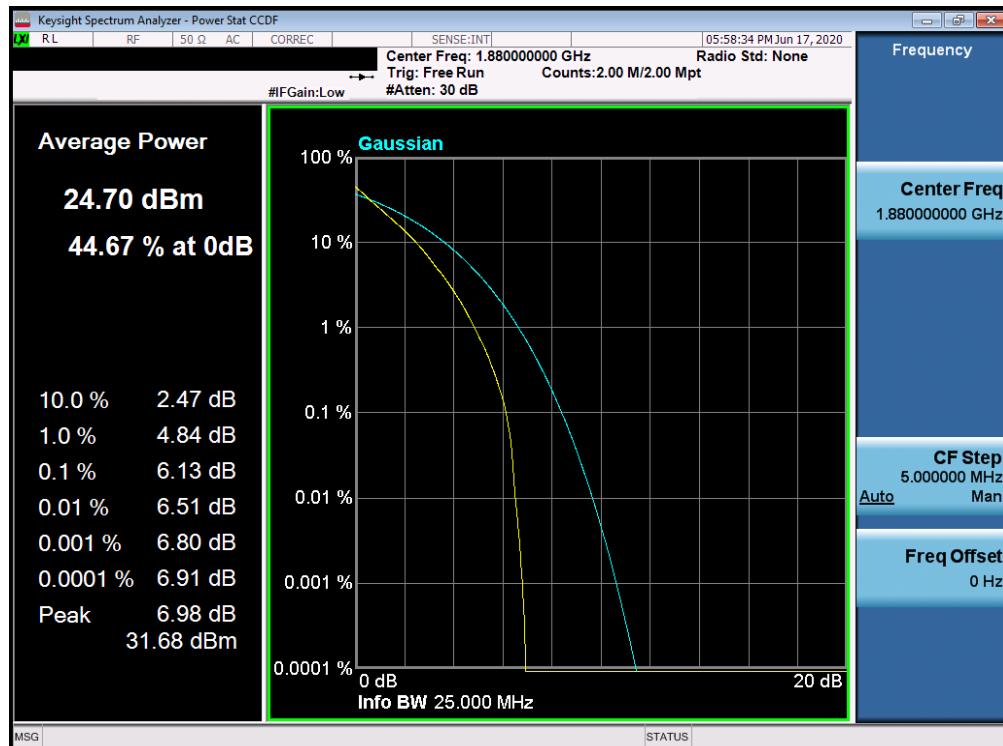


Plot 7-392. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

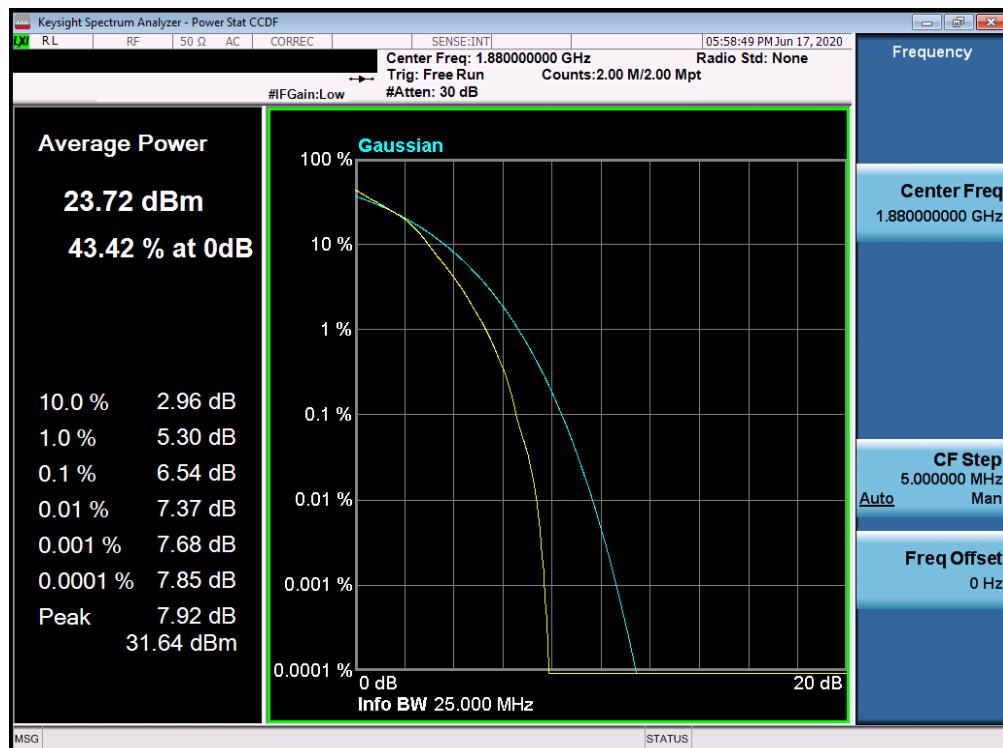


Plot 7-393. PAR Plot (Band 2 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 229 of 355

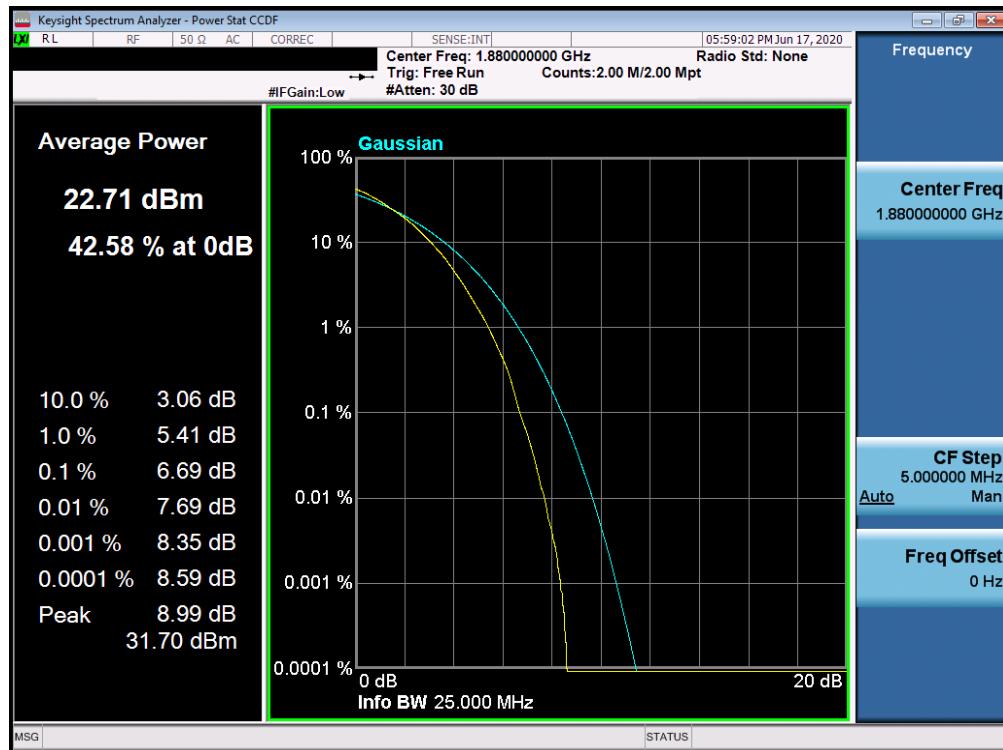


Plot 7-394. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

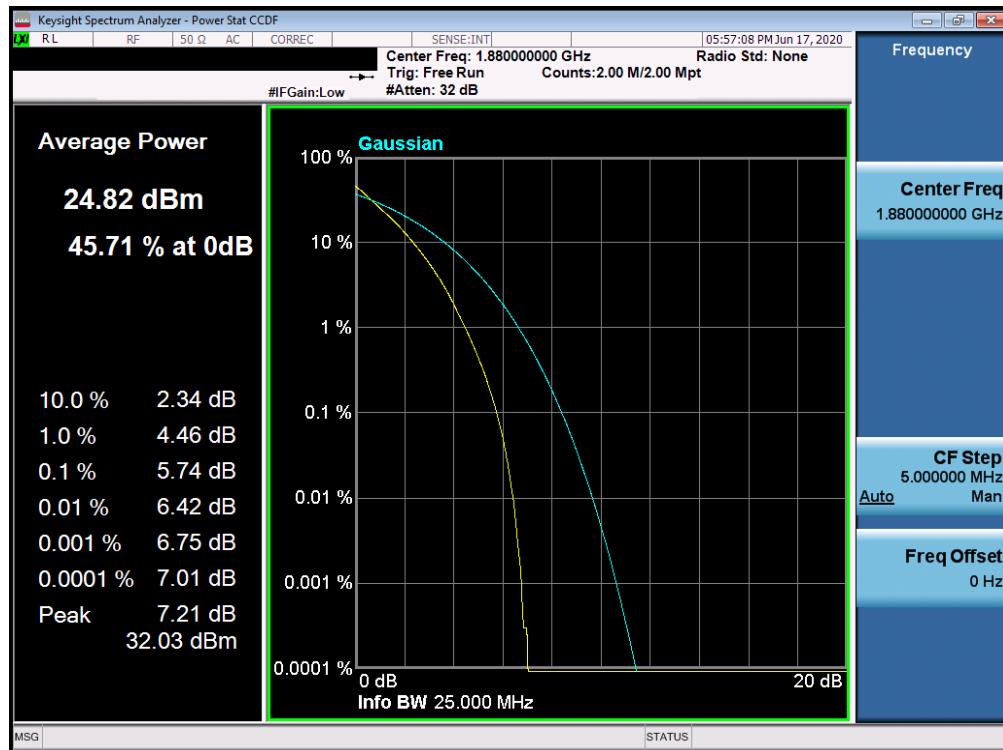


Plot 7-395. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 230 of 355	

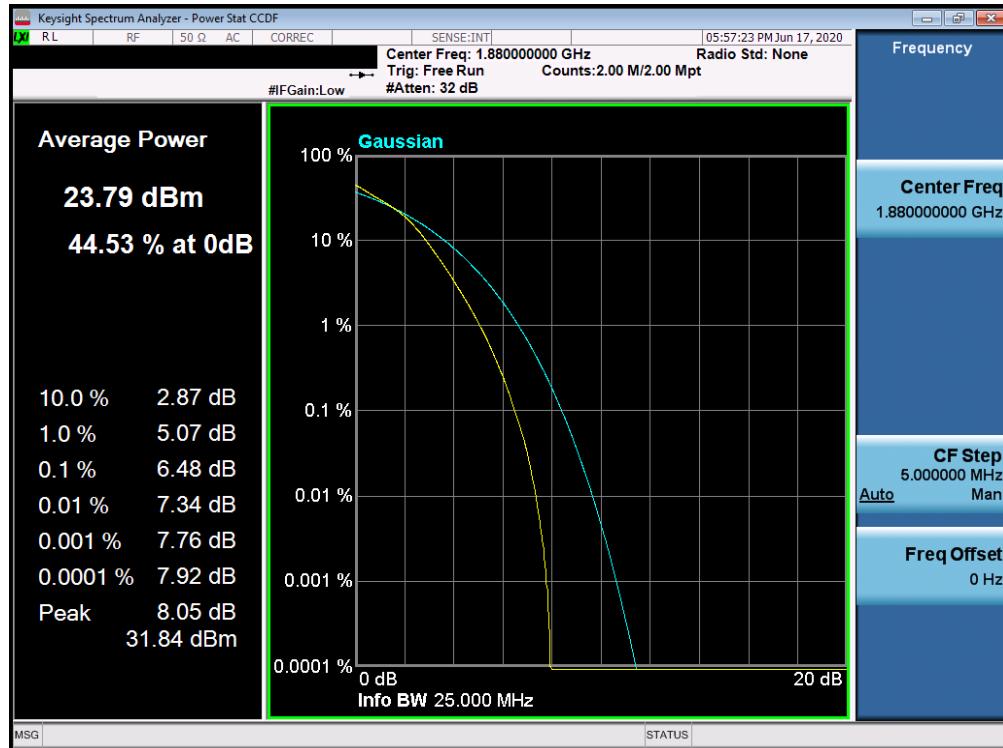


Plot 7-396. PAR Plot (Band 2 - 15.0MHz 64-QAM - Full RB Configuration)

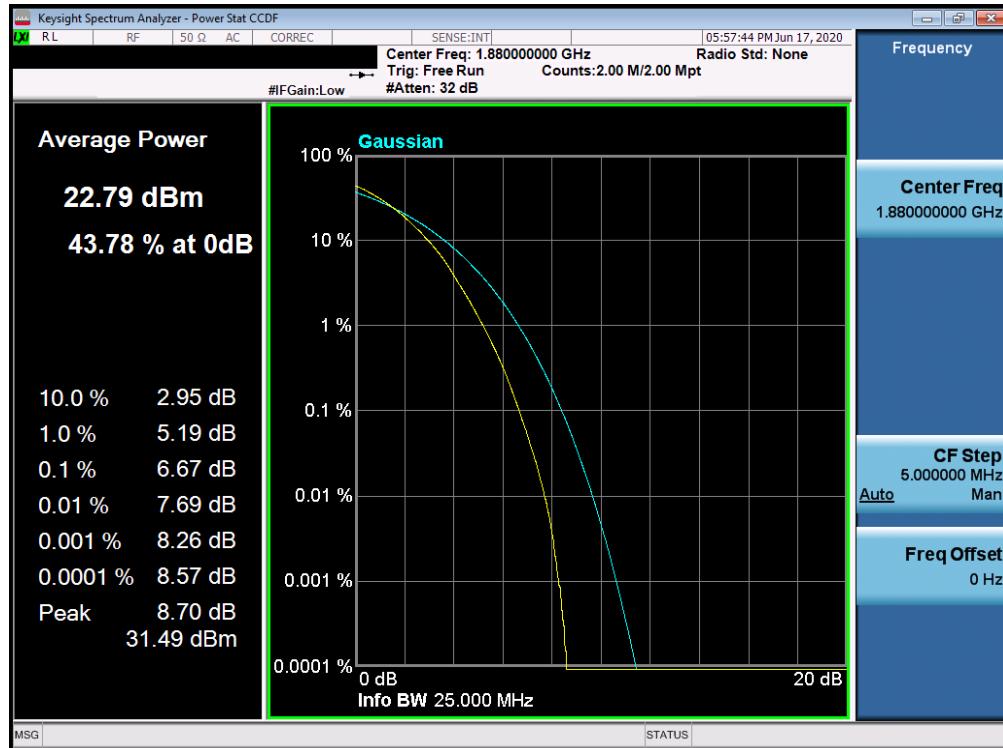


Plot 7-397. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 231 of 355



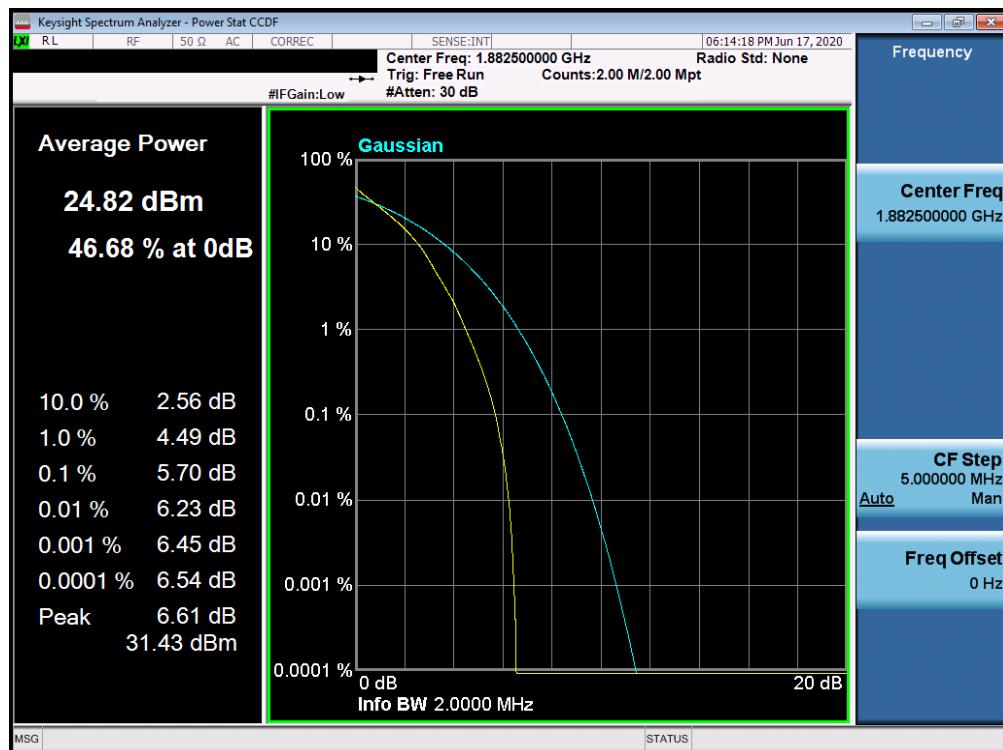
Plot 7-398. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)



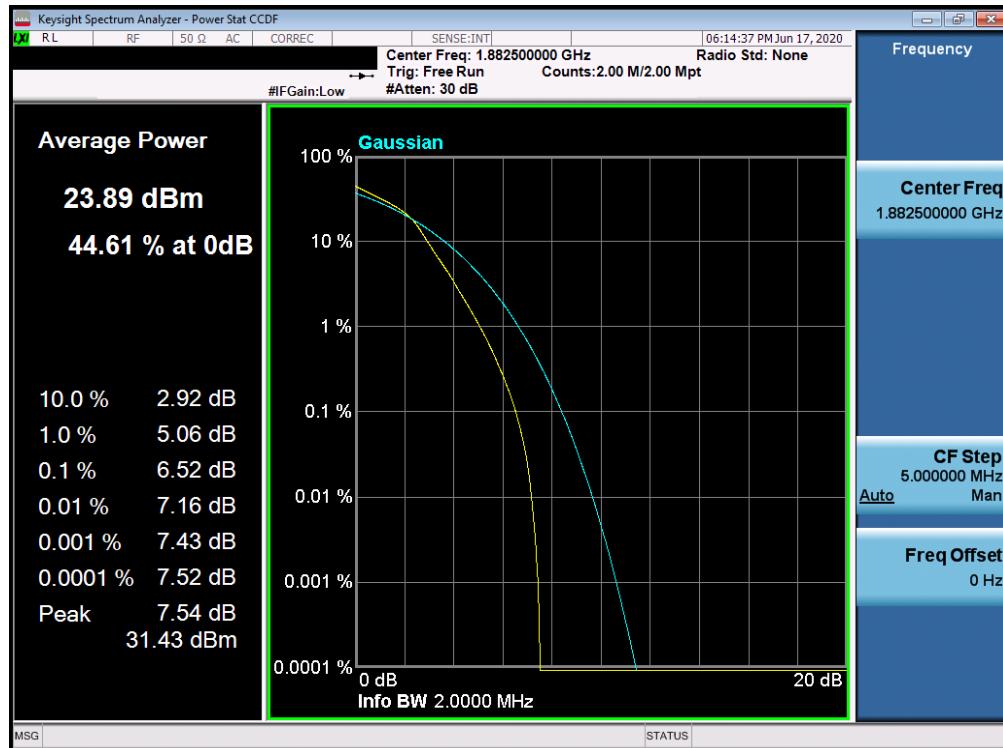
Plot 7-399. PAR Plot (Band 2 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 232 of 355	

Band 25

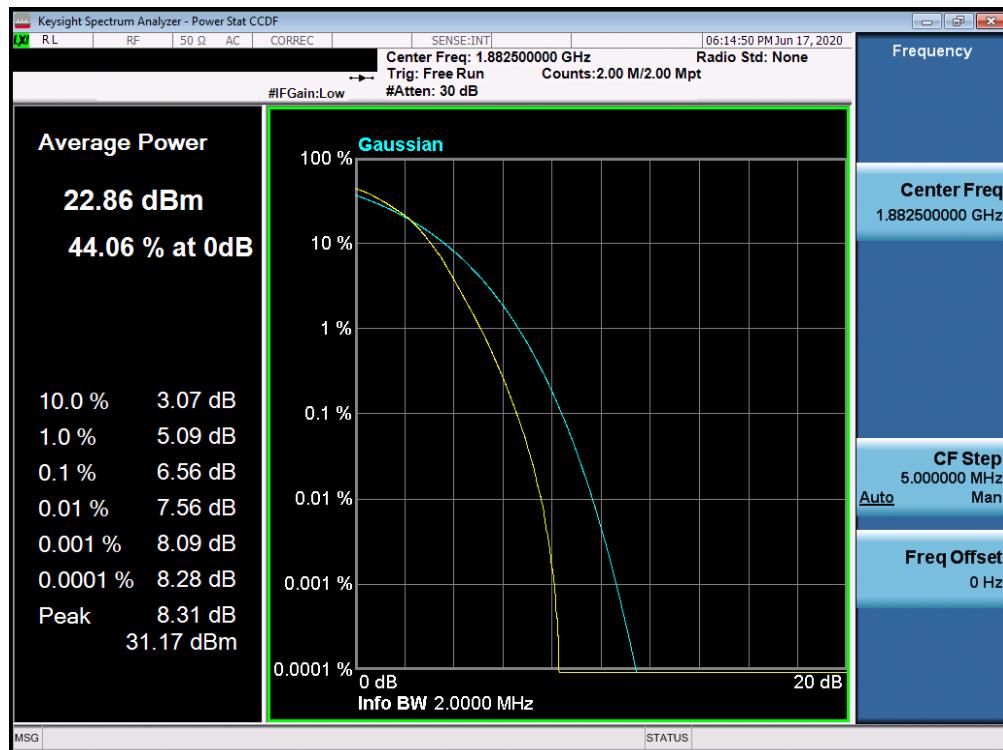


Plot 7-400. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

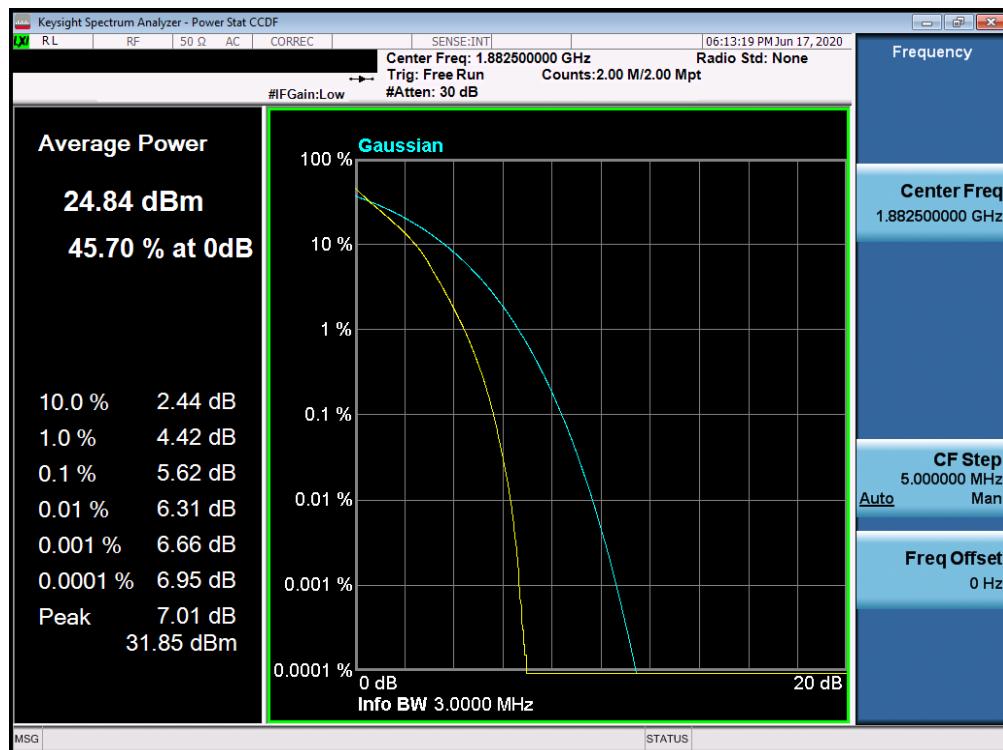


Plot 7-401. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 233 of 355	

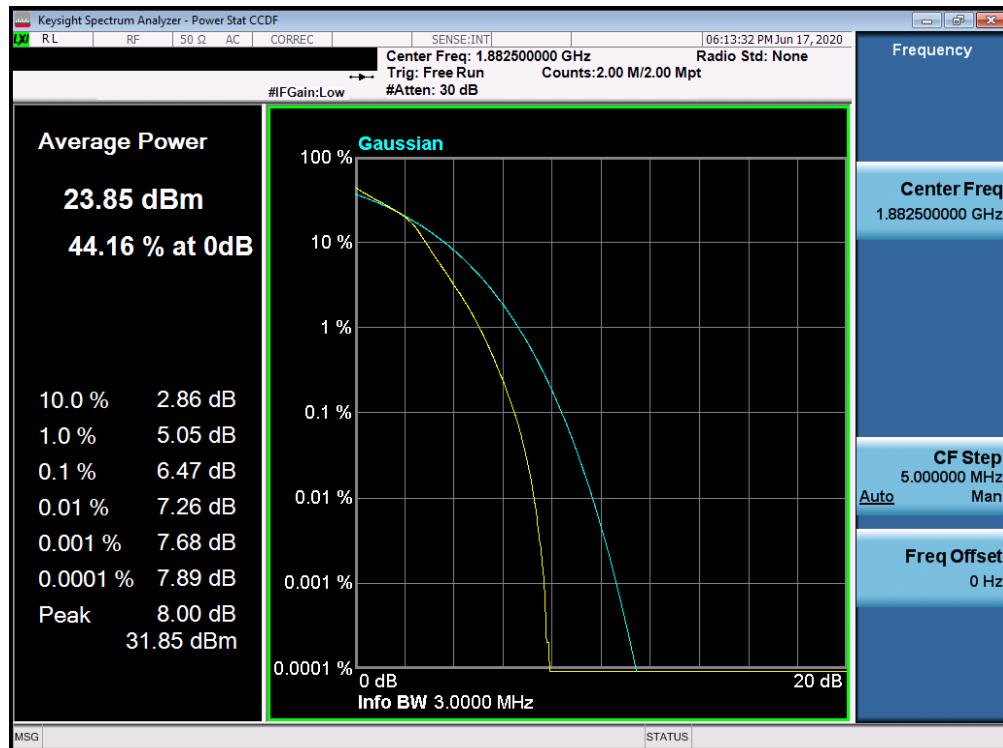


Plot 7-402. PAR Plot (Band 25 - 1.4MHz 64-QAM - Full RB Configuration)

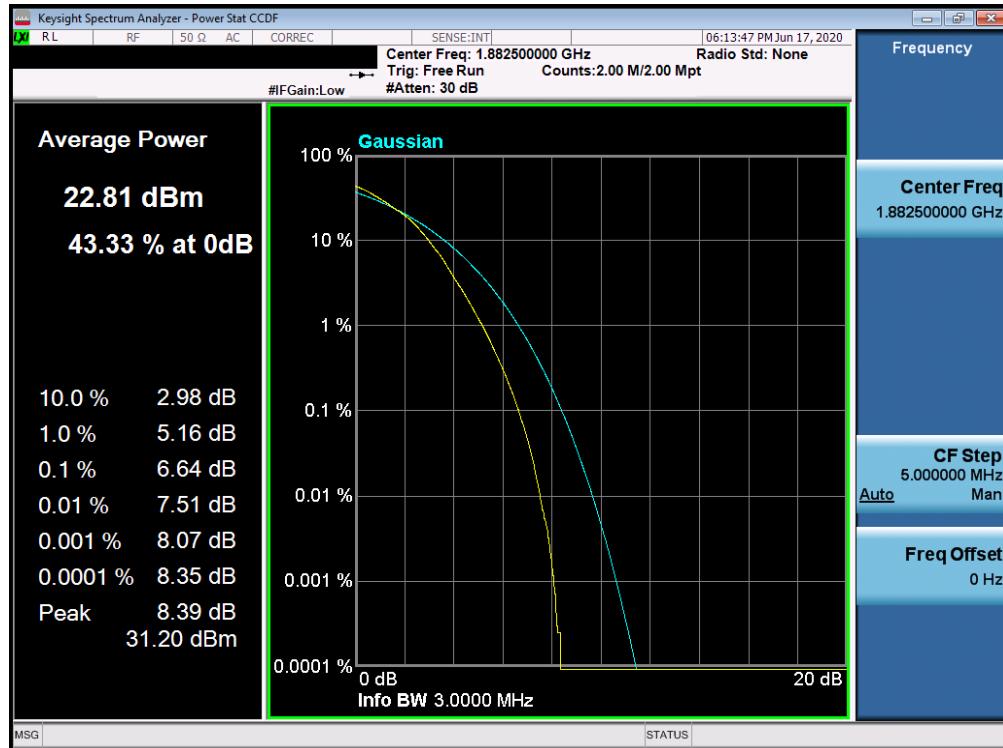


Plot 7-403. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 234 of 355	

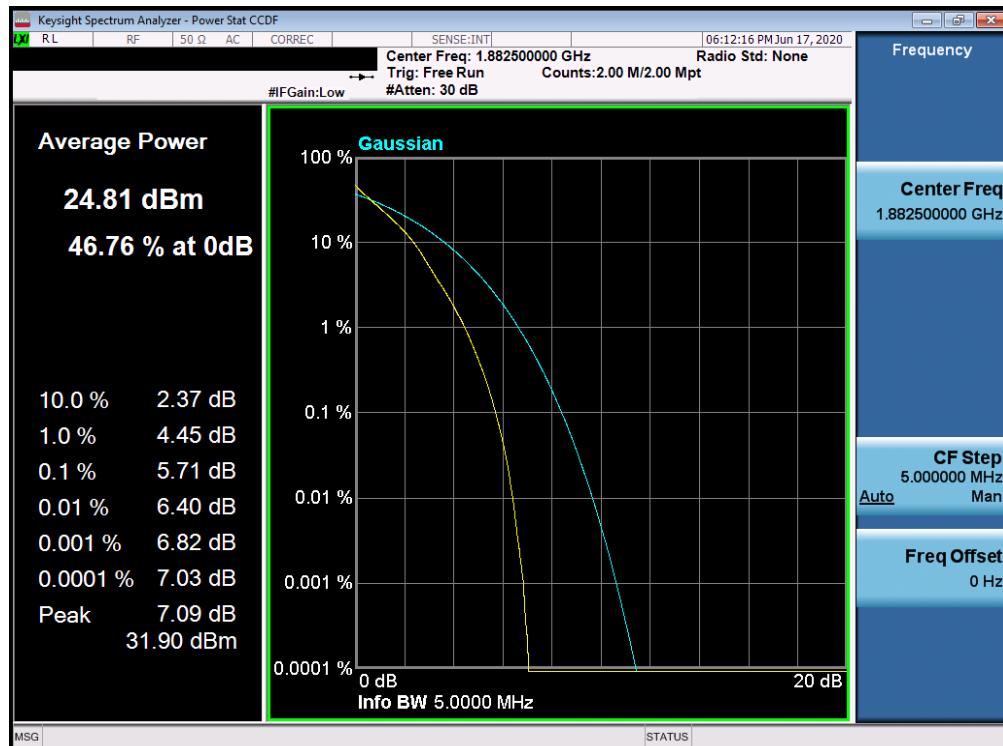


Plot 7-404. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

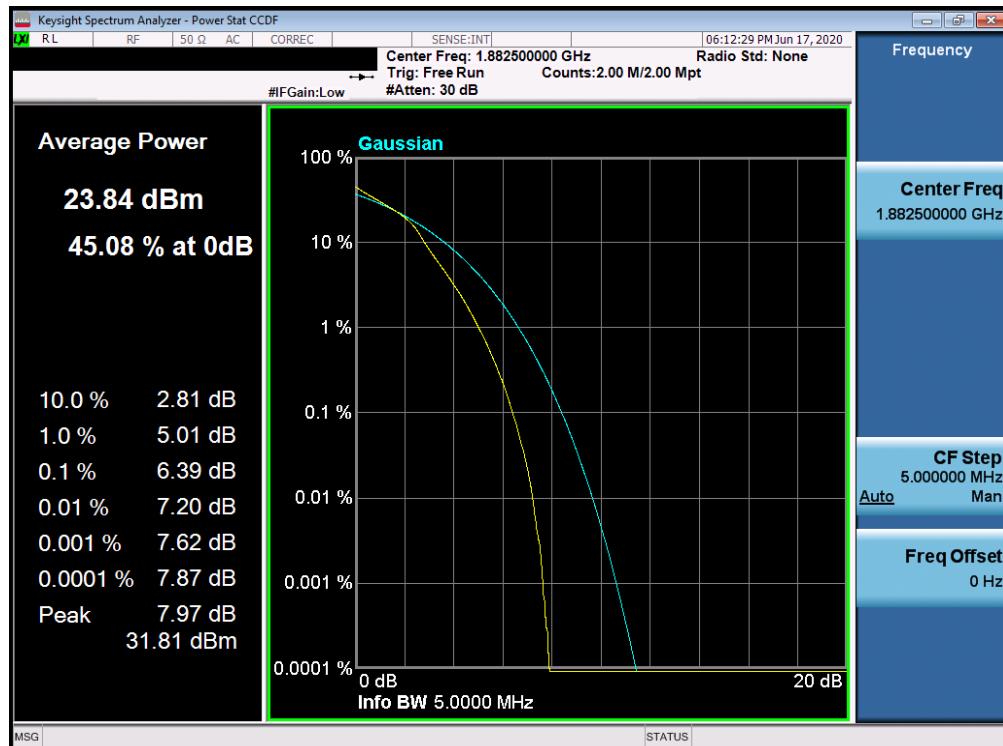


Plot 7-405. PAR Plot (Band 25 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device		Page 235 of 355

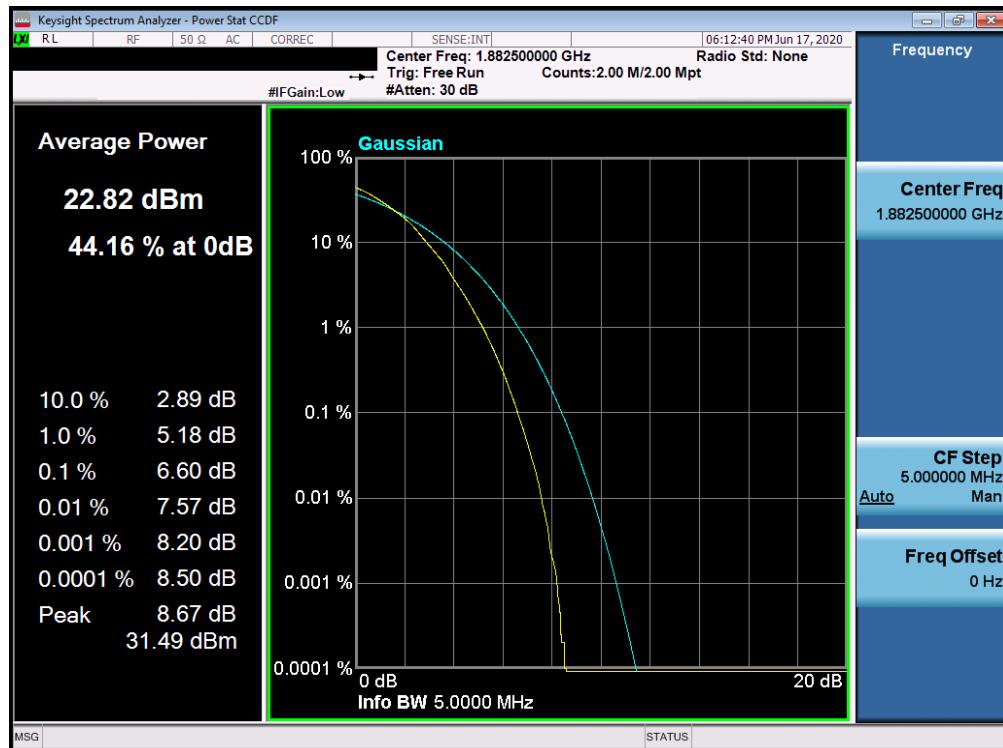


Plot 7-406. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

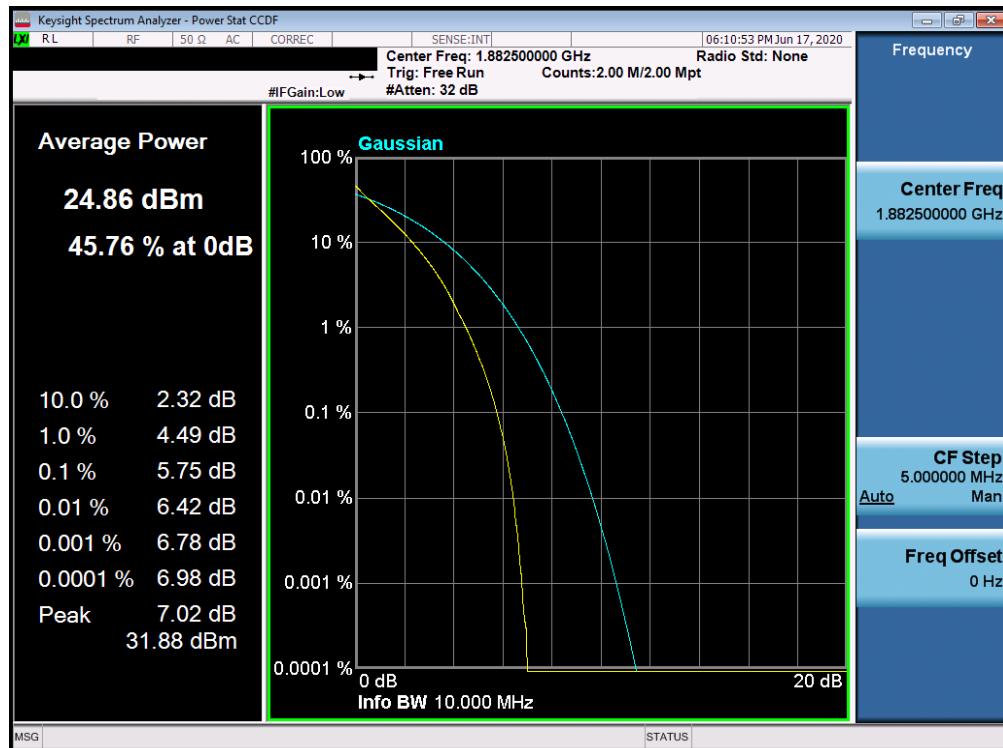


Plot 7-407. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 236 of 355	

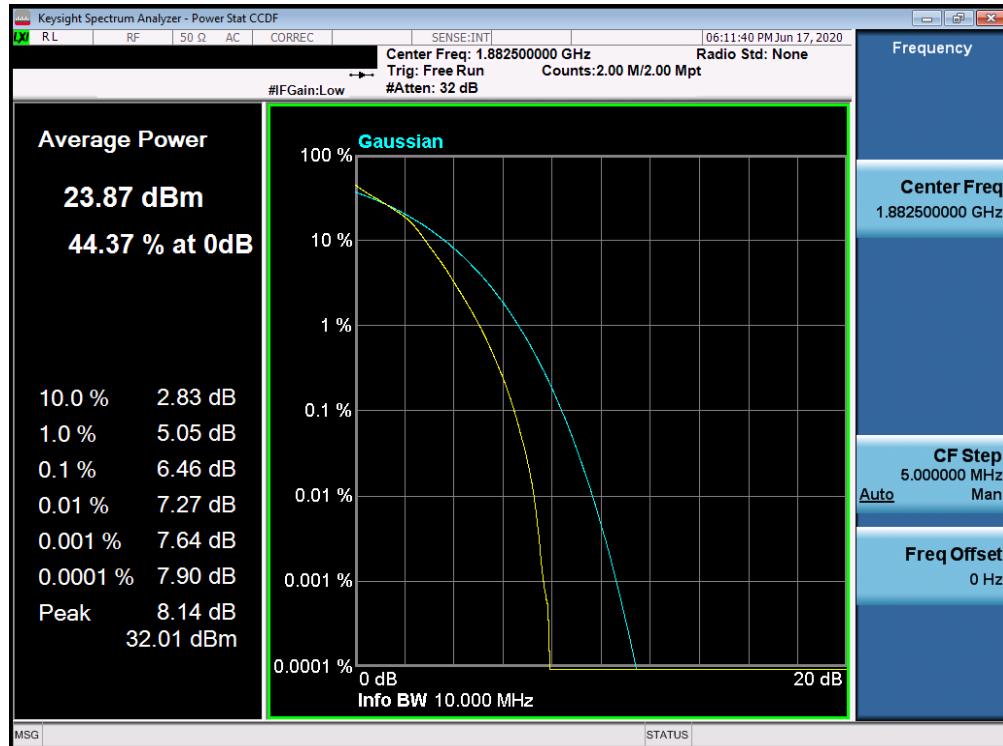


Plot 7-408. PAR Plot (Band 25 - 5.0MHz 64-QAM - Full RB Configuration)

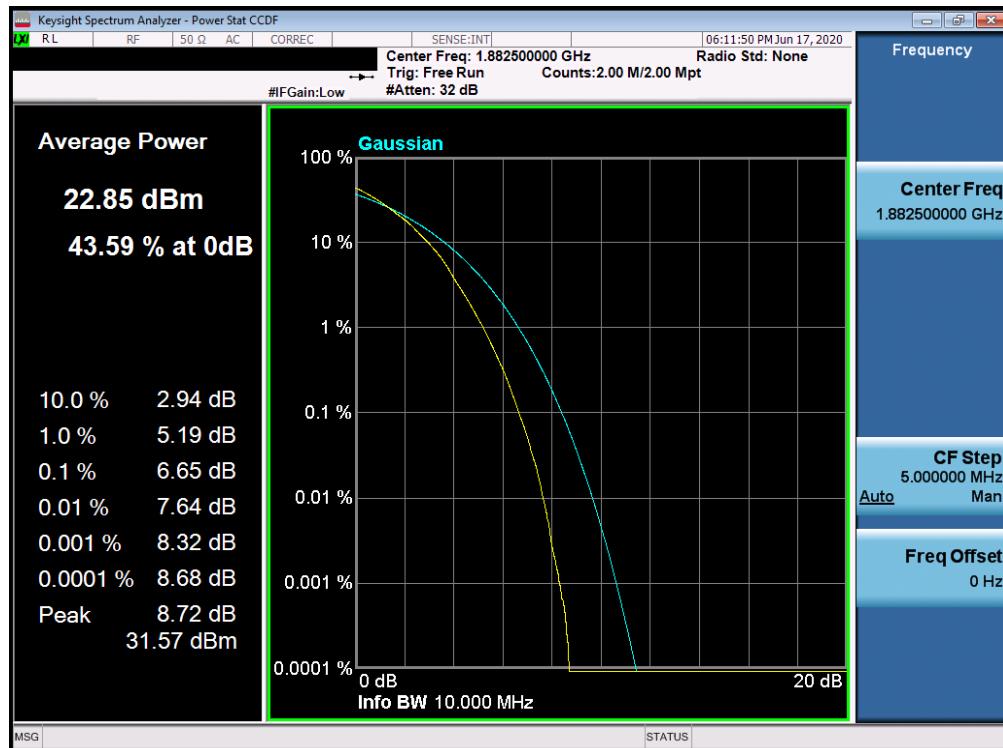


Plot 7-409. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 237 of 355	

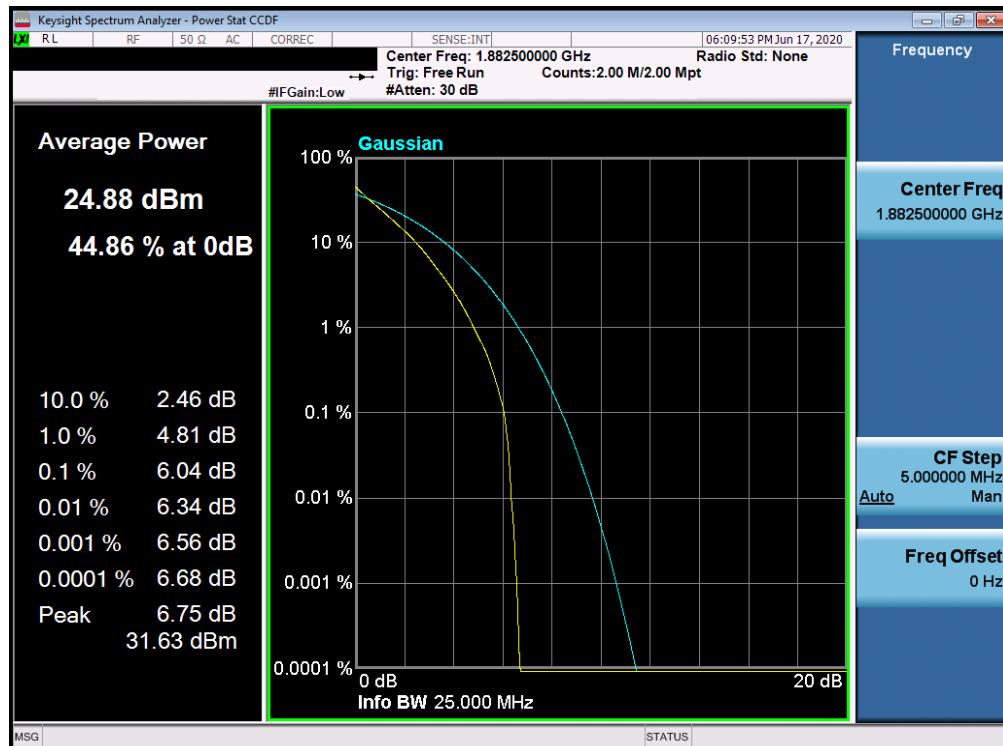


Plot 7-410. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

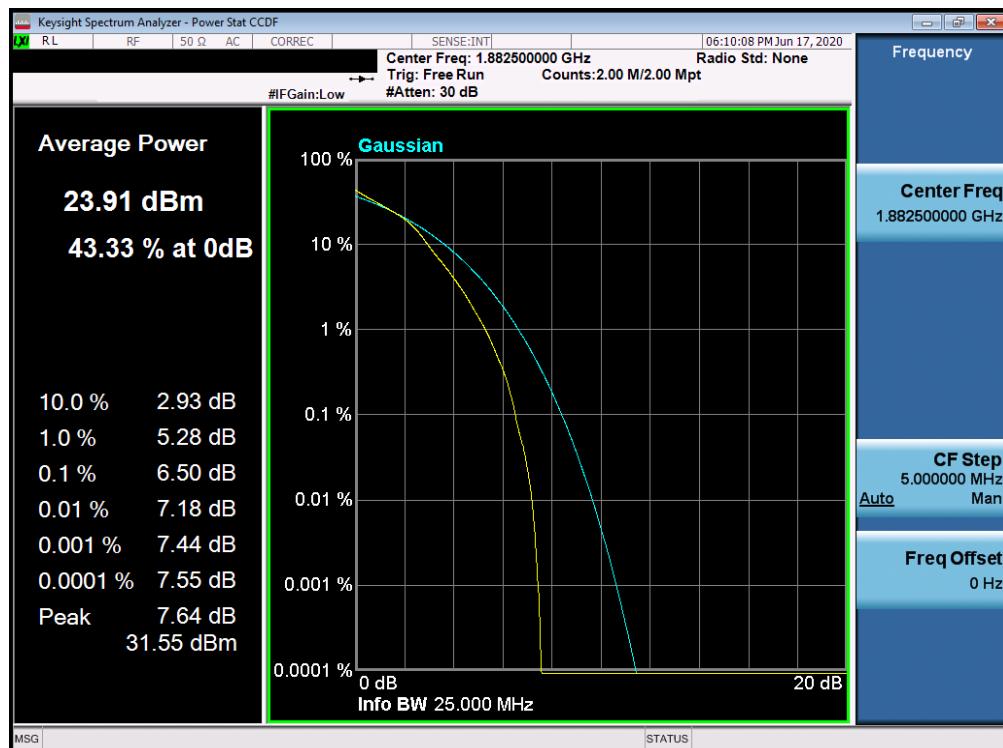


Plot 7-411. PAR Plot (Band 25 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 238 of 355	

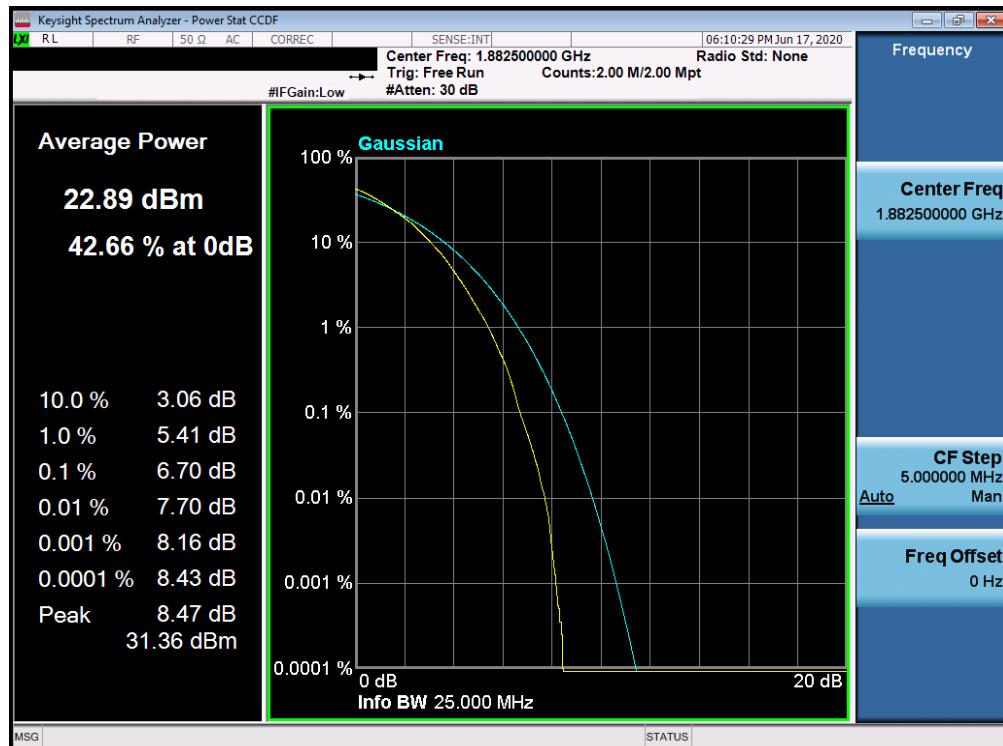


Plot 7-412. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

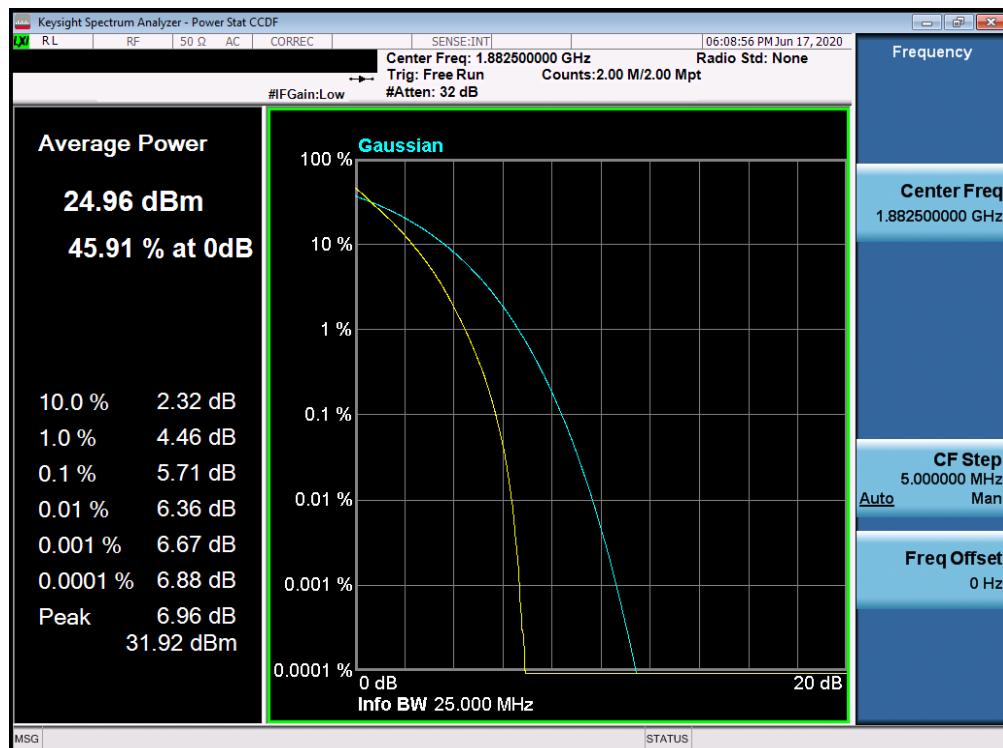


Plot 7-413. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 239 of 355	

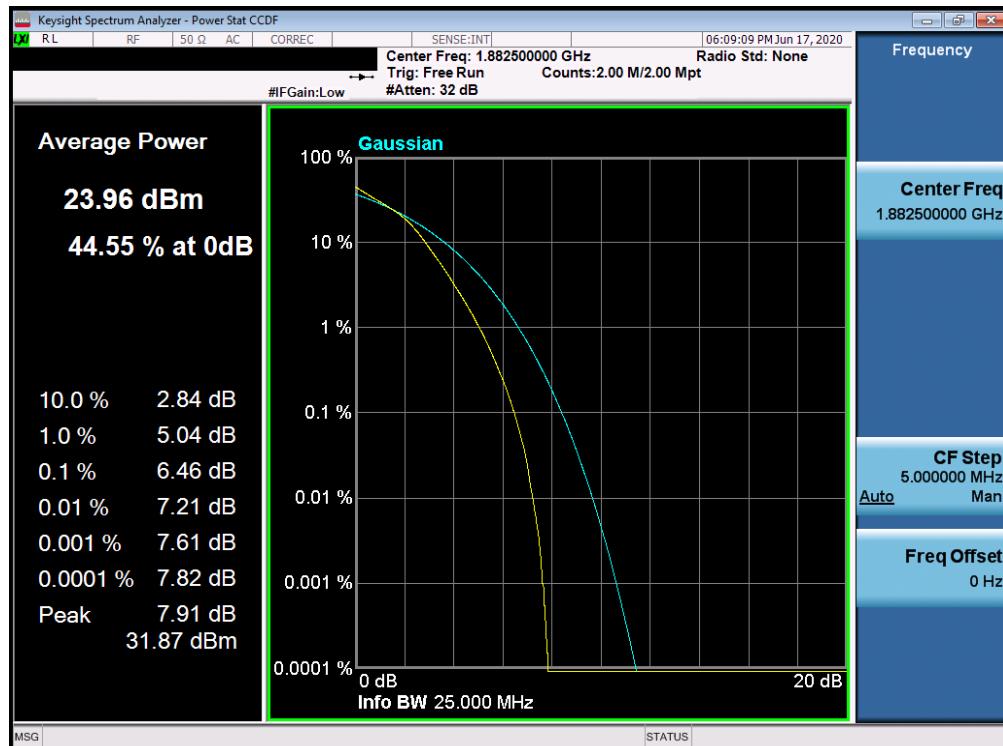


Plot 7-414. PAR Plot (Band 25 - 15.0MHz 64-QAM - Full RB Configuration)

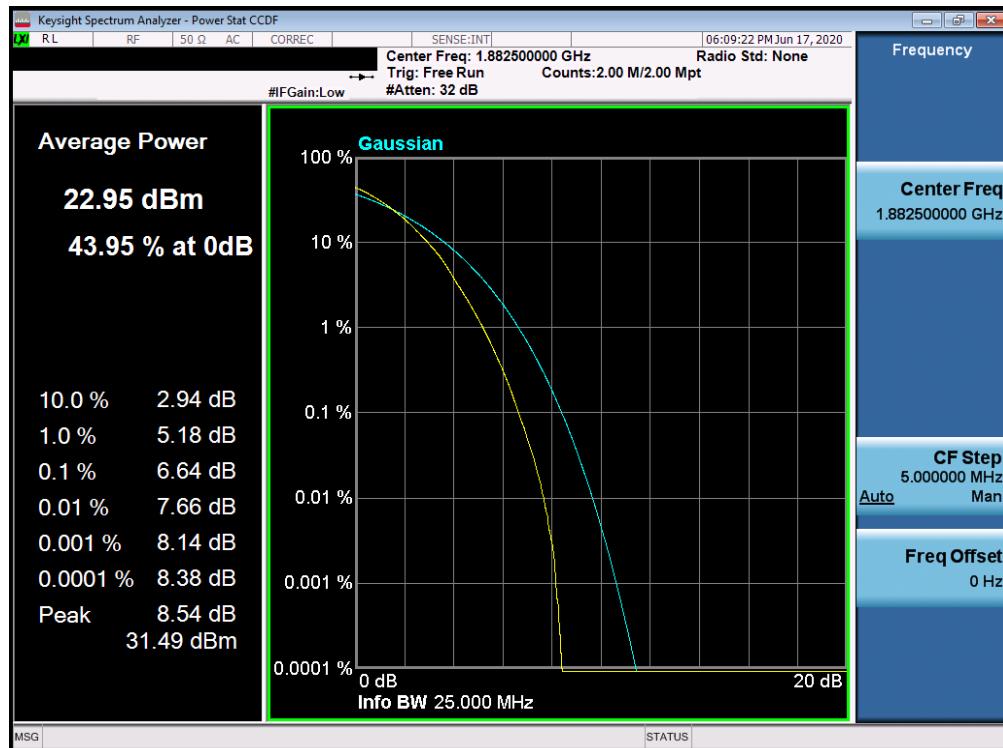


Plot 7-415. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2428	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270033-03.BCG	Test Dates: 05/01/2020-07/22/2020	EUT Type: Tablet Device	Page 240 of 355	



Plot 7-416. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)



Plot 7-417. PAR Plot (Band 25 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2428	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6 Additional Maximum Power Reduction (A-MPR)

§2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedure Used

KDB 971168 D01 v03

Test Setup

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



Figure 7-5. Conducted Power Measurement Setup

Test Notes

All ports were tested and only the worst case data were reported.

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V 10.1 02/01/2020

Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	Modulation	RB Size	RB Offset	MPR [dB]	A-MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]
1	01	312	530	5	39675	2498.5	QPSK	1	0	0	≤ 3	25.09	23.0	2.09
2							16-QAM			≤ 1		23.98	22.0	1.98
3							64-QAM			≤ 2		22.96	21.0	1.96
4					39700	2501	QPSK	1	9	0	0	27.00	26.0	1.00
5							16-QAM			≤ 1		25.95	25.0	0.95
6							64-QAM			≤ 2		24.97	24.0	0.97
7					39700	2501	QPSK	20	0	0	≤ 2	23.97	21.0	2.97
8							16-QAM			≤ 1		22.99	20.0	2.99
9							64-QAM			≤ 2		21.92	19.0	2.92
10					39700	2501	QPSK	20	0	0	≤ 2	24.83	23.0	1.83
11							16-QAM			≤ 1		23.83	22.0	1.83
12							64-QAM			≤ 2		22.81	21.0	1.81
13					39725	2503.5	QPSK	50	0	0	≤ 3	23.78	22.0	1.78
14							16-QAM			≤ 1		22.74	21.0	1.74
15							64-QAM			≤ 2		21.75	20.0	1.75
16					39725	2503.5	QPSK	25	20	0	≤ 1	24.80	24.0	0.80
17							16-QAM			≤ 1		23.81	23.0	0.81
18							64-QAM			≤ 2		22.77	22.0	0.77
19					39700	2501	QPSK	10	36	0	0	26.97	26.0	0.97
20							16-QAM			≤ 1		26.11	25.0	1.11
21							64-QAM			≤ 2		24.99	24.0	0.99
22					39725	2503.5	QPSK	15	0	0	≤ 5	23.86	21.0	2.86
23							16-QAM			≤ 1		22.81	20.0	2.81
24							64-QAM			≤ 2		21.81	19.0	2.81
25					39725	2503.5	QPSK	15	20	0	≤ 2	24.80	23.0	1.80
26							16-QAM			≤ 1		23.93	22.0	1.93
27							64-QAM			≤ 2		22.79	21.0	1.79
28					39725	2503.5	QPSK	15	75	0	≤ 4	22.81	21.0	1.81
29							16-QAM			≤ 1		21.79	20.0	1.79
30							64-QAM			≤ 2		20.77	19.0	1.77
31					39725	2503.5	QPSK	15	50	15	0	24.79	22.0	2.79
32							16-QAM			≤ 1		23.83	21.0	2.83
33							64-QAM			≤ 2		22.78	20.0	2.78
34					39725	2503.5	QPSK	15	60	0	≤ 3	26.82	26.0	0.82
35							16-QAM			≤ 1		25.87	25.0	0.87
36							64-QAM			≤ 2		24.81	24.0	0.81
37					39750	2506	QPSK	20	0	0	≤ 5	23.83	21.0	2.83
38							16-QAM			≤ 1		22.92	20.0	2.92
39							64-QAM			≤ 2		21.82	19.0	2.82
40					39750	2506	QPSK	20	0	0	≤ 2	24.84	23.0	1.84
41							16-QAM			≤ 1		23.88	22.0	1.88
42							64-QAM			≤ 2		22.87	21.0	1.87
43					39750	2506	QPSK	20	0	0	≤ 4	22.99	21.0	1.99
44							16-QAM			≤ 1		21.87	20.0	1.87
45							64-QAM			≤ 2		20.84	19.0	1.84
46					39750	2506	QPSK	75	24	0	≤ 3	24.84	22.0	2.84
47							16-QAM			≤ 1		23.84	21.0	2.84
48							64-QAM			≤ 2		22.83	20.0	2.83
49					39750	2506	QPSK	1	77	0	0	26.84	26.0	0.84
50							16-QAM			≤ 1		25.93	25.0	0.93
51							64-QAM			≤ 2		24.9	24.0	0.90
52					311	490	QPSK	1	0	0	≤ 3	25.02	23.0	2.02
53							16-QAM			≤ 1		23.85	22.0	1.85
54							64-QAM			≤ 2		22.99	21.0	1.99
55					01	001	QPSK	1	0	0	0	27	26.0	1.00
56							16-QAM			≤ 1		25.96	25.0	0.96
57							64-QAM			≤ 2		25.11	24.0	1.11

Table 7-7. A-MPR Conducted Power Measurements

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7.7 Uplink Carrier Aggregation Conducted Measurements

§27.53(m)

Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

For Band 38/41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{[Watts]})$.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

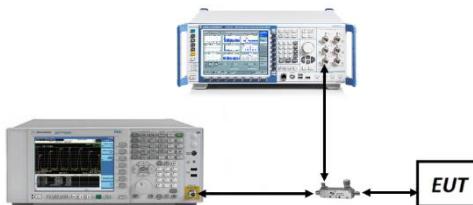


Figure 7-6. Test Instrument & Measurement Setup

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Test Notes

1. Uplink carrier aggregation is only supported in this EUT while operating in Power Class 3.
2. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation, as shown in the tables below, with both carriers set to transmit using 1RB.
3. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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Antenna C (Port A)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
20850	2510.0	20	QPSK	1	99	21048	2529.8	20	QPSK	1	0	25.00
21100	2535.0	20	QPSK	1	99	21298	2554.8	20	QPSK	1	0	25.00
21350	2560.0	20	QPSK	1	0	21152	2540.2	20	QPSK	1	99	24.95

Table 7-8. Conducted Powers (B7 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
20850	2510.0	20	QPSK	100	0	21048	2529.8	20	QPSK	100	0	23.00
20850	2510.0	20	16-QAM	100	0	21048	2529.8	20	16-QAM	100	0	21.98
20850	2510.0	20	64-QAM	100	0	21048	2529.8	20	64-QAM	100	0	21.99

Table 7-9. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	25.00
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	24.79
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	24.58

Table 7-10. Conducted Powers (B41 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	22.99
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	22.00
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	22.00

Table 7-11. Conducted Powers (B41 with Various Combinations for 20MHz Channel Bandwidth)

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Antenna D (Port B)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
20850	2510.0	20	QPSK	1	99	21048	2529.8	20	QPSK	1	0	22.54
21100	2535.0	20	QPSK	1	99	21298	2554.8	20	QPSK	1	0	22.71
21350	2560.0	20	QPSK	1	0	21152	2540.2	20	QPSK	1	99	22.74

Table 7-12. Conducted Powers (B7 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
20850	2510.0	20	QPSK	100	0	21048	2529.8	20	QPSK	100	0	20.75
20850	2510.0	20	16-QAM	100	0	21048	2529.8	20	16-QAM	100	0	19.75
20850	2510.0	20	64-QAM	100	0	21048	2529.8	20	64-QAM	100	0	19.75

Table 7-13. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
39750	2506.0	20	QPSK	1	99	39948	2525.8	20	QPSK	1	0	22.54
40620	2593.0	20	QPSK	1	99	40818	2612.8	20	QPSK	1	0	22.57
41490	2680.0	20	QPSK	1	0	41292	2660.2	20	QPSK	1	99	22.47

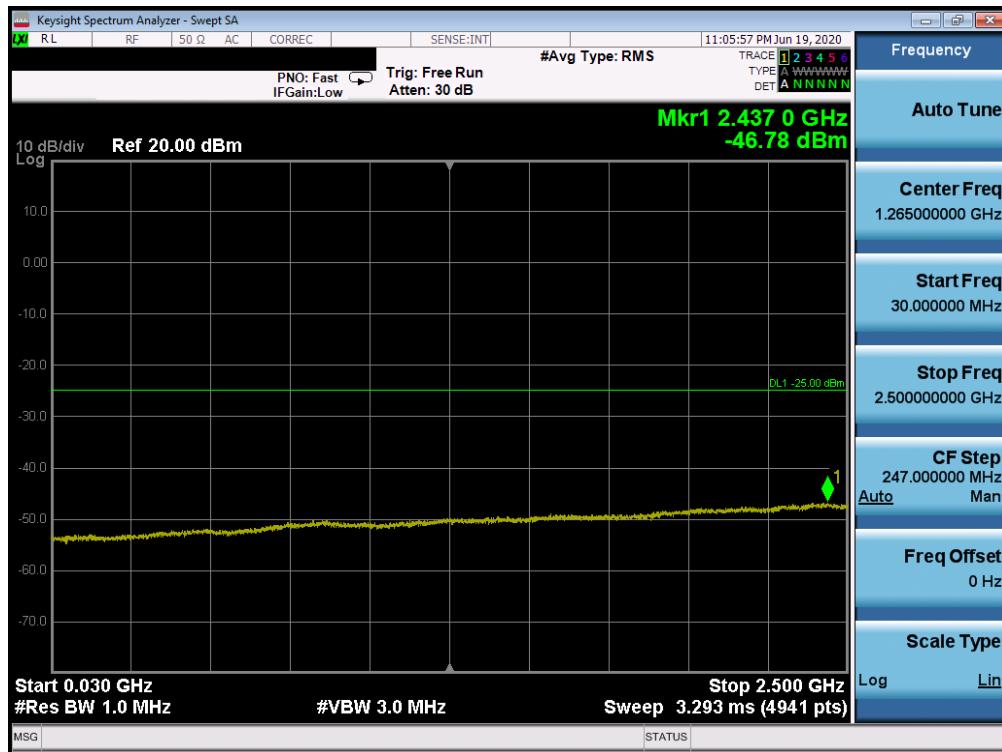
Table 7-14. Conducted Powers (B41 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)

PCC						SCC						Power
Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	Channel	Frequency [MHz]	BW [MHz]	Mod.	RB Size	RB Offset	ULCA Tx.Power (dBm)
39750	2506.0	20	QPSK	100	0	39948	2525.8	20	QPSK	100	0	20.50
39750	2506.0	20	16-QAM	100	0	39948	2525.8	20	16-QAM	100	0	19.56
39750	2506.0	20	64-QAM	100	0	39948	2525.8	20	64-QAM	100	0	19.54

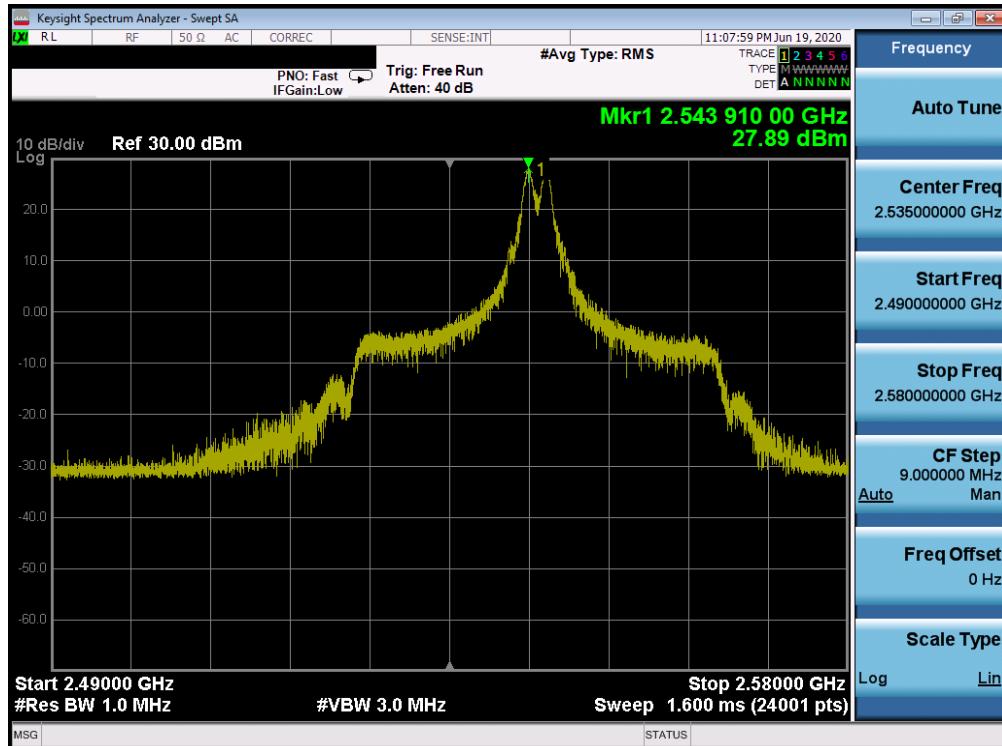
Table 7-15. Conducted Powers (B41 with Various Combinations for 20MHz Channel Bandwidth)

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Band 7

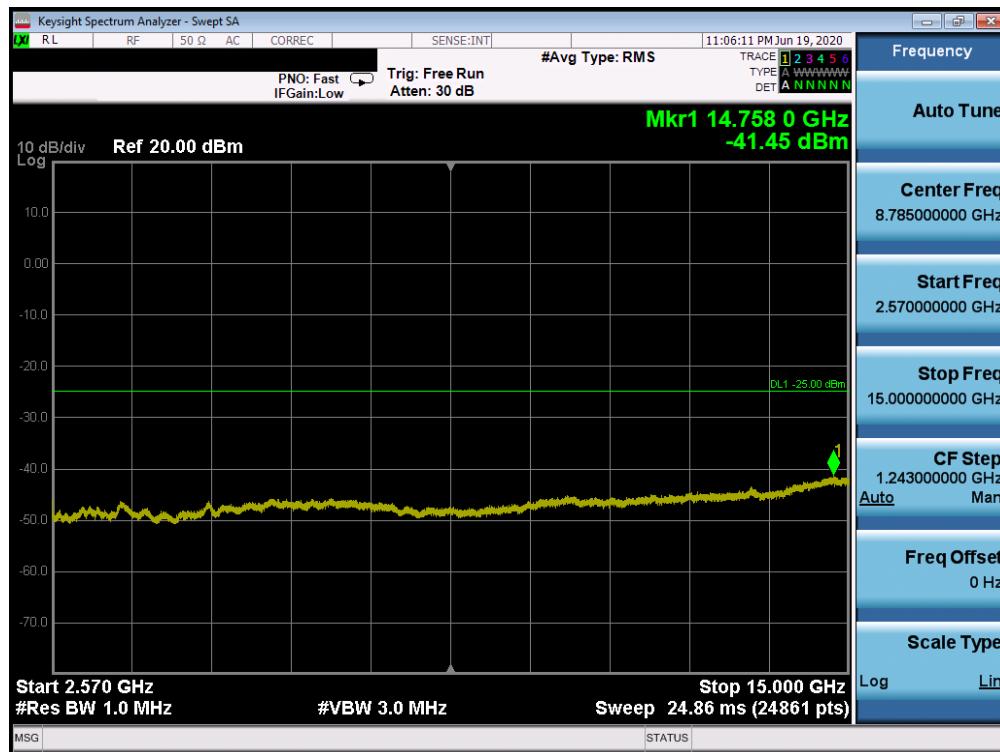


Plot 7-418. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

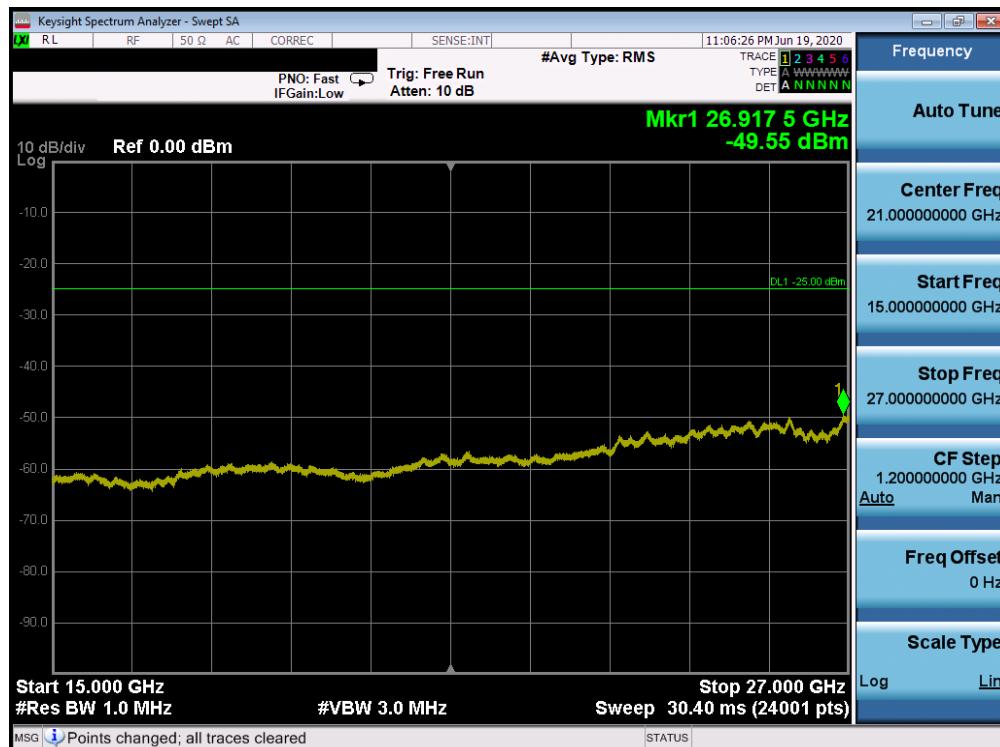


Plot 7-419. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

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Plot 7-420. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-421. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2428	PCTEST Proud to be part of 			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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