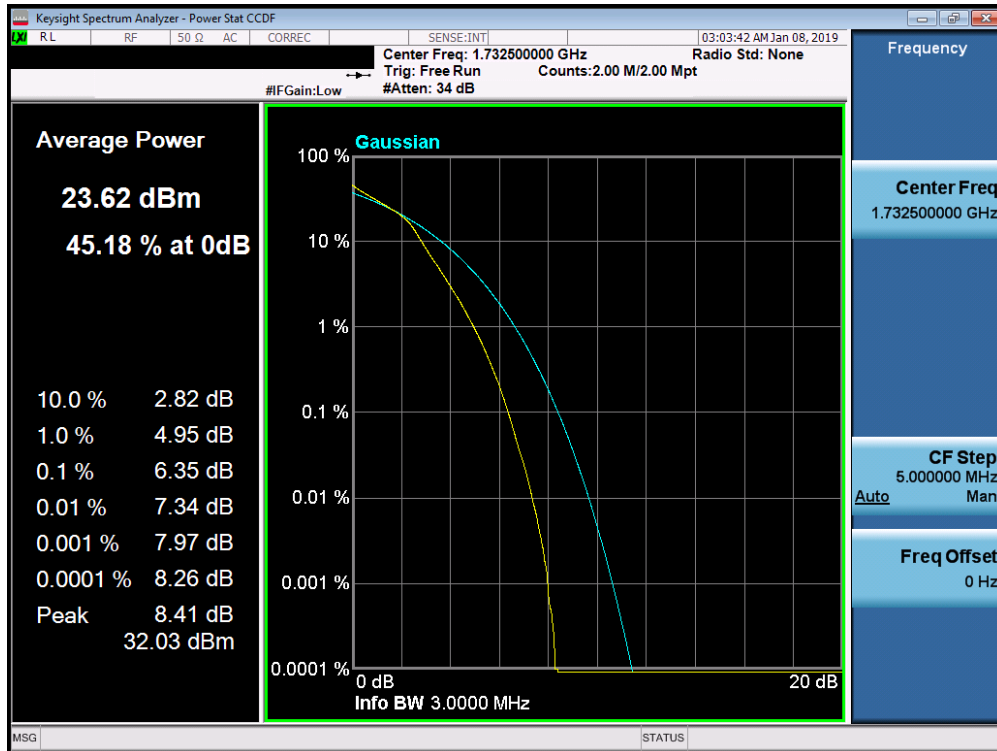
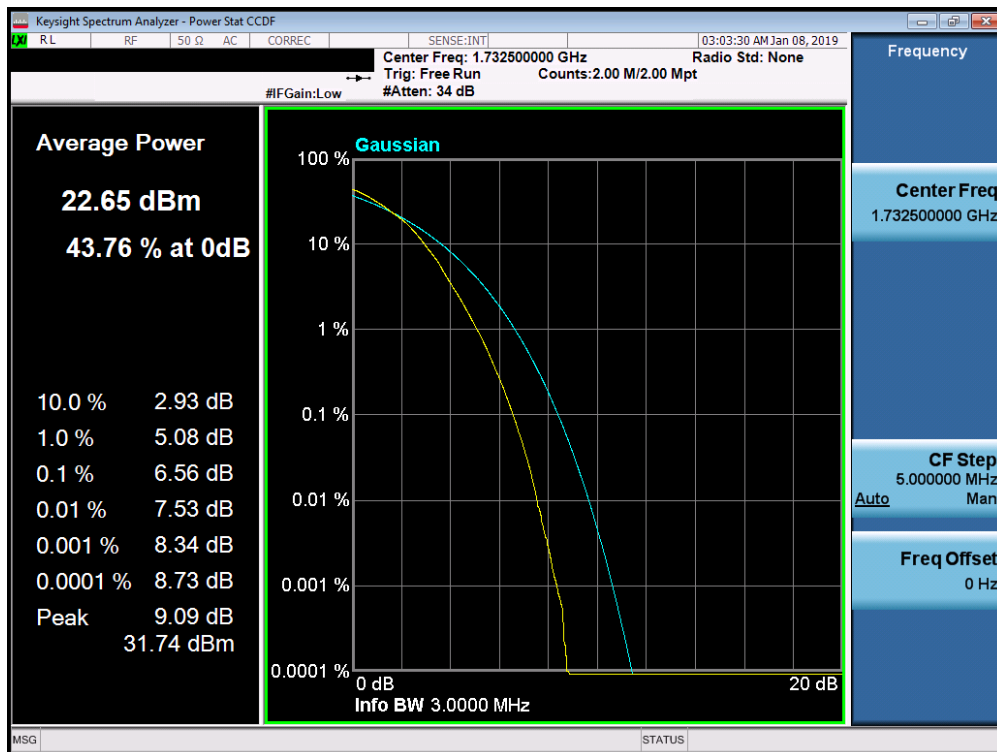


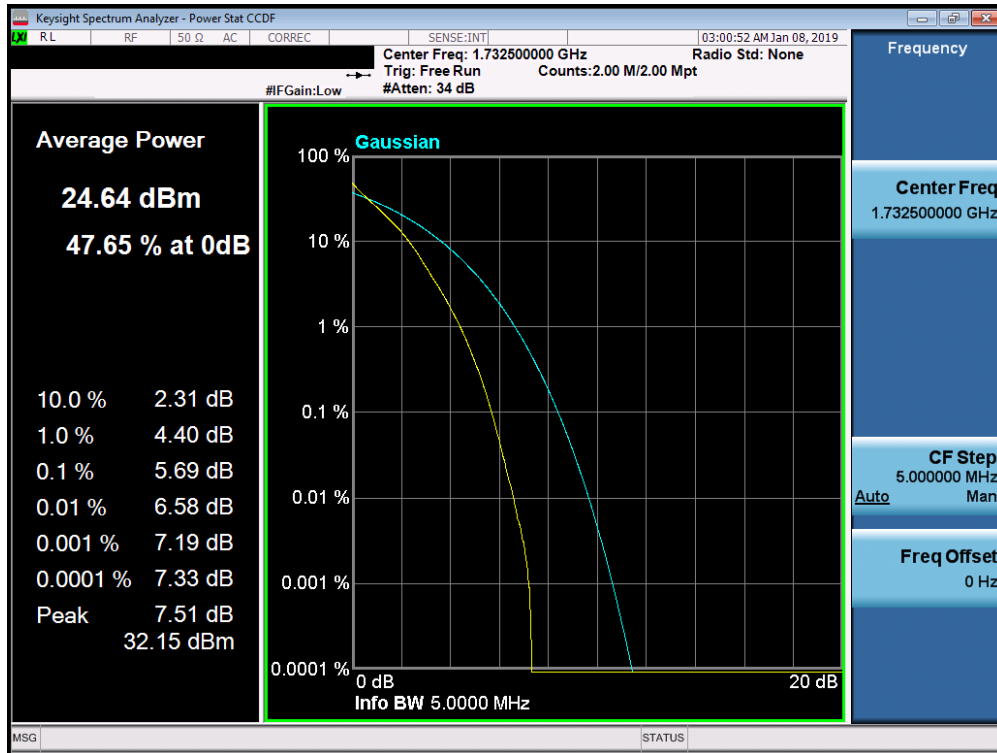


Plot 7-317. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

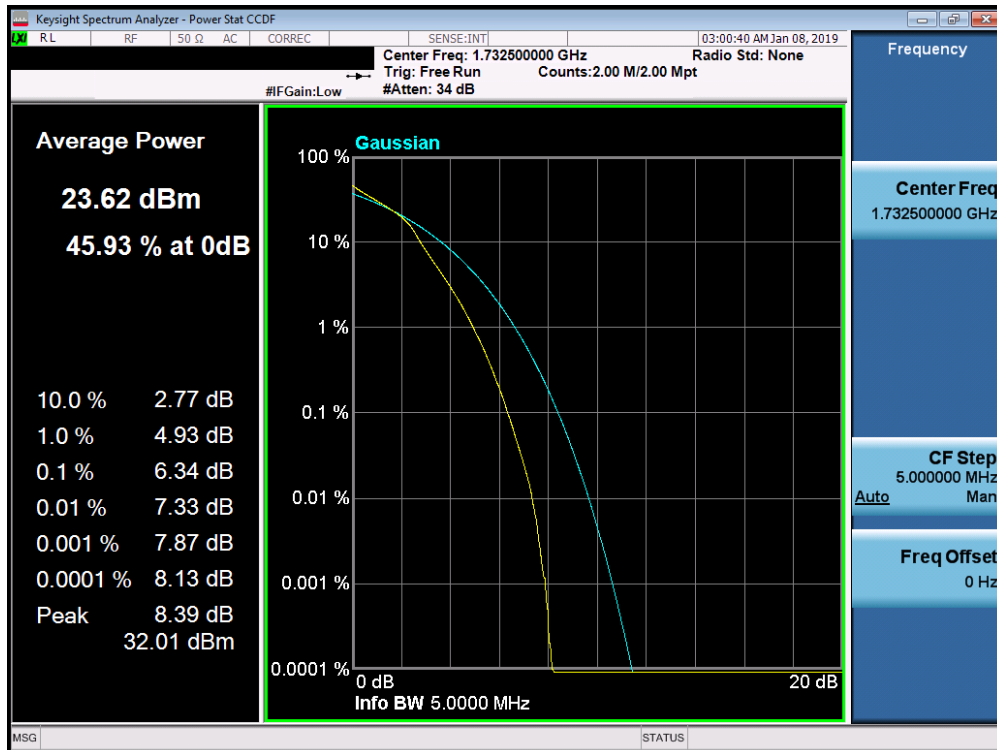


Plot 7-318. PAR Plot (Band 4 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 193 of 338

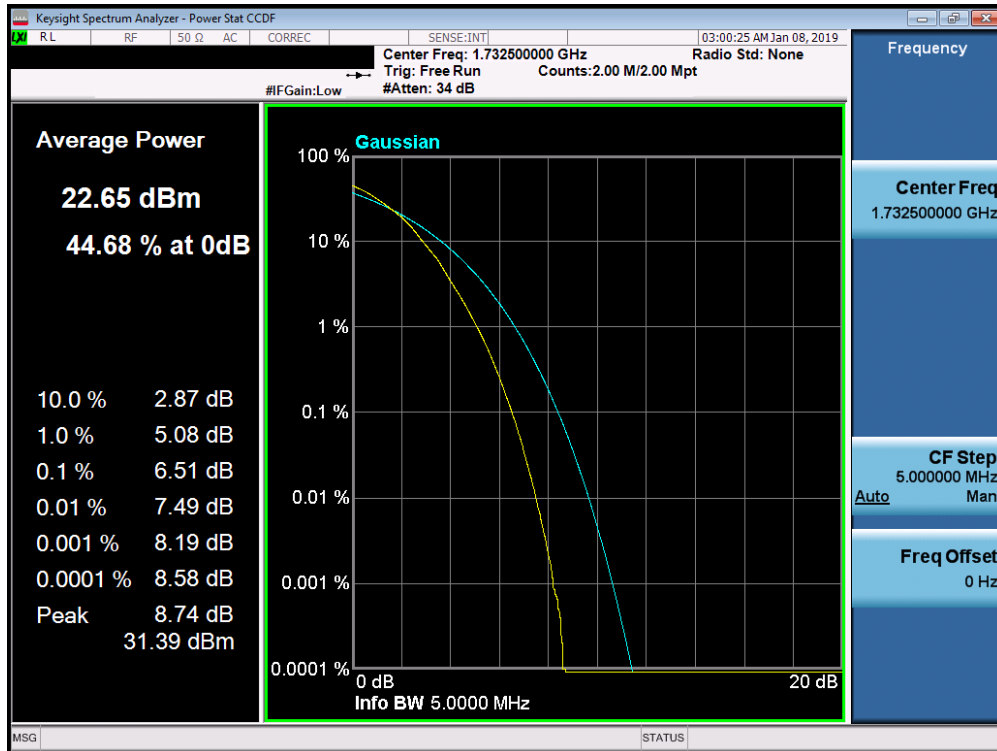


Plot 7-319. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

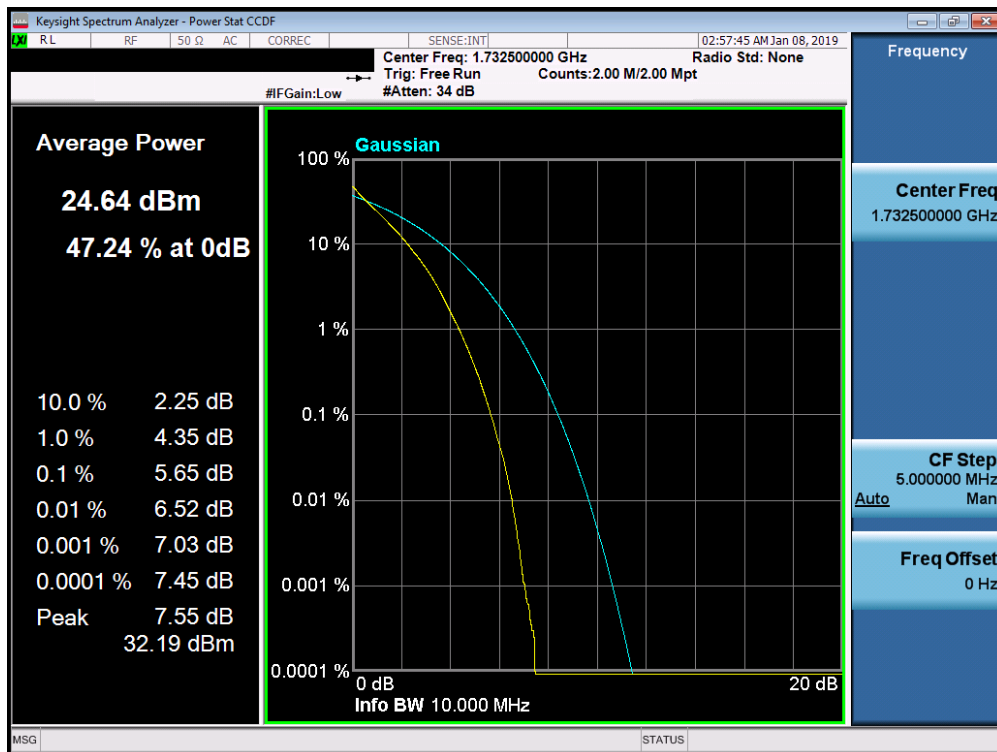


Plot 7-320. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 194 of 338

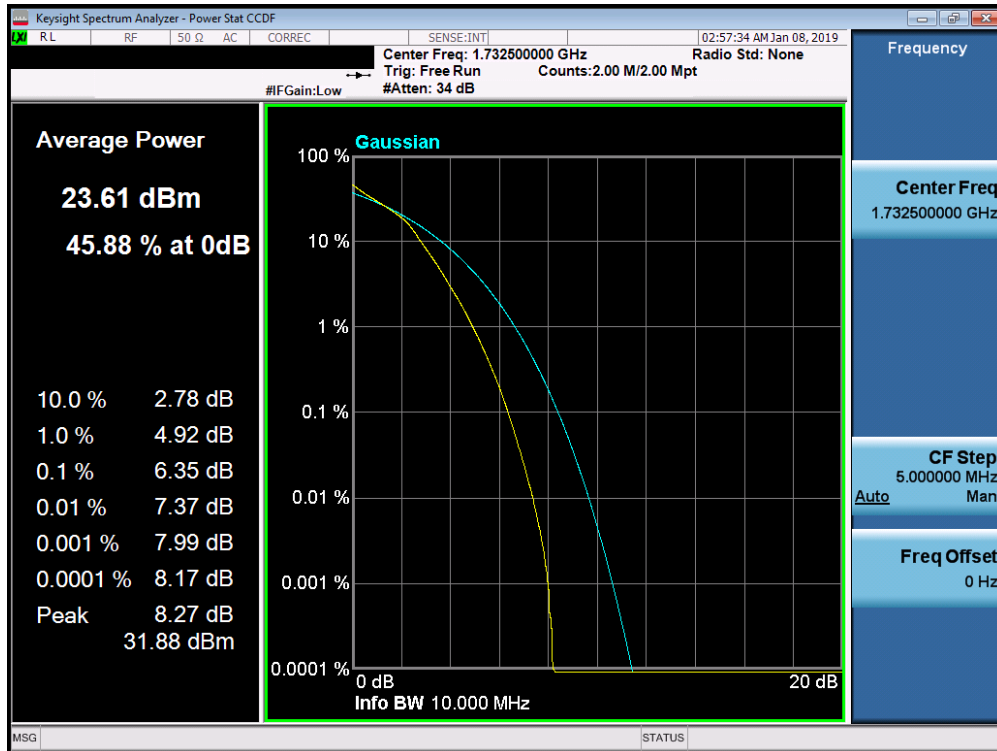


Plot 7-321. PAR Plot (Band 4 - 5.0MHz 64-QAM - Full RB Configuration)

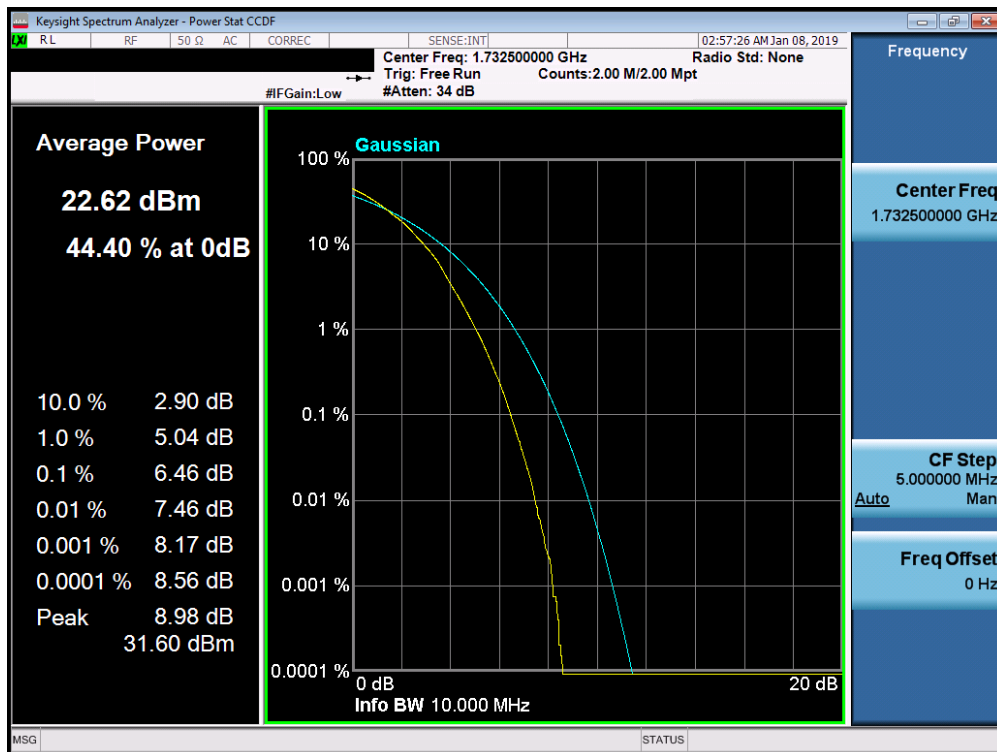


Plot 7-322. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 195 of 338

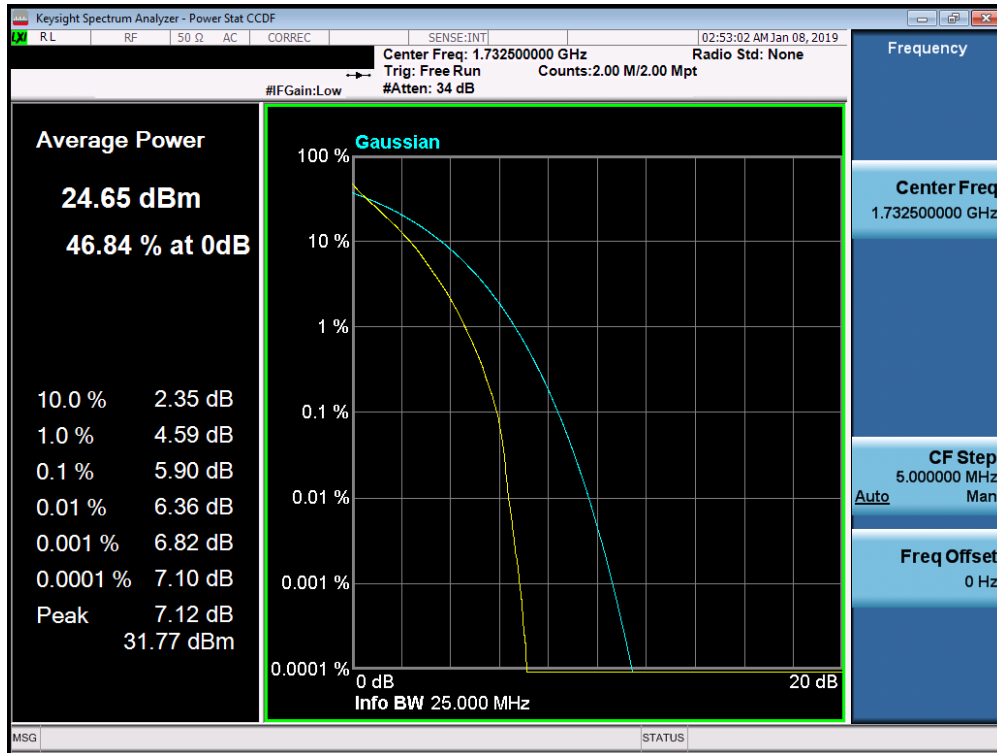


Plot 7-323. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

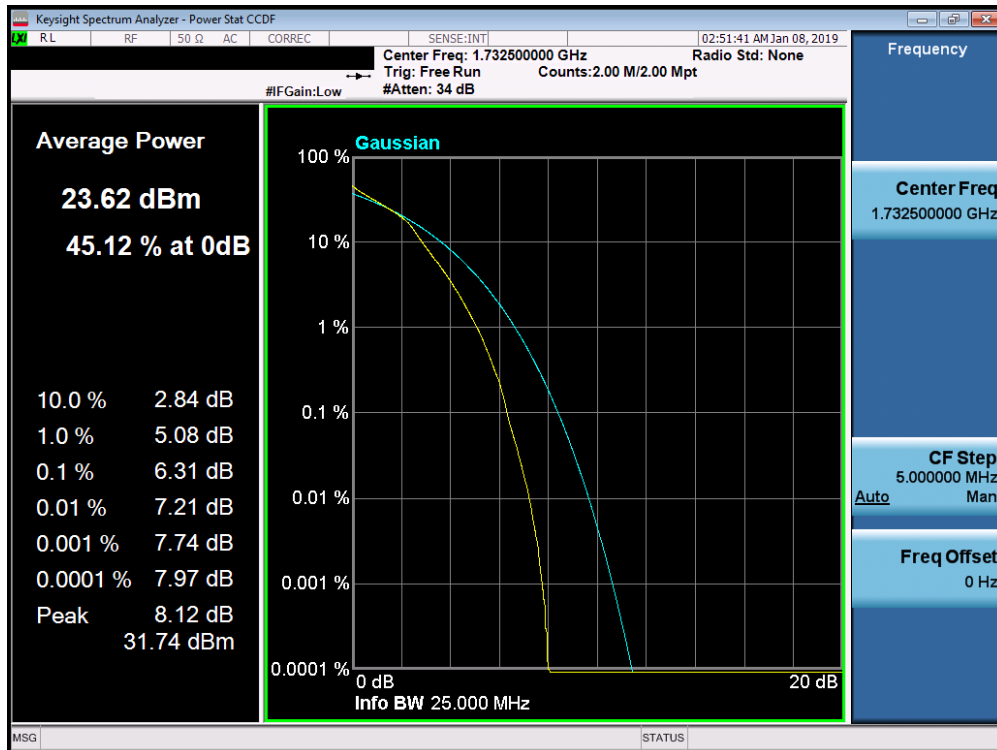


Plot 7-324. PAR Plot (Band 4 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 196 of 338

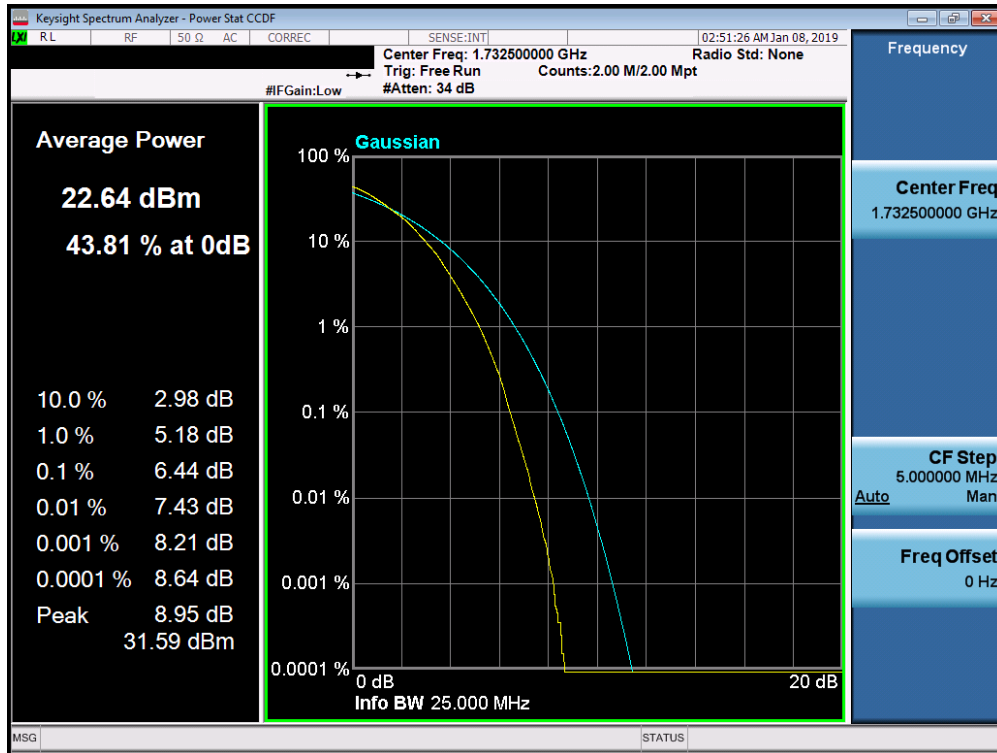


Plot 7-325. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

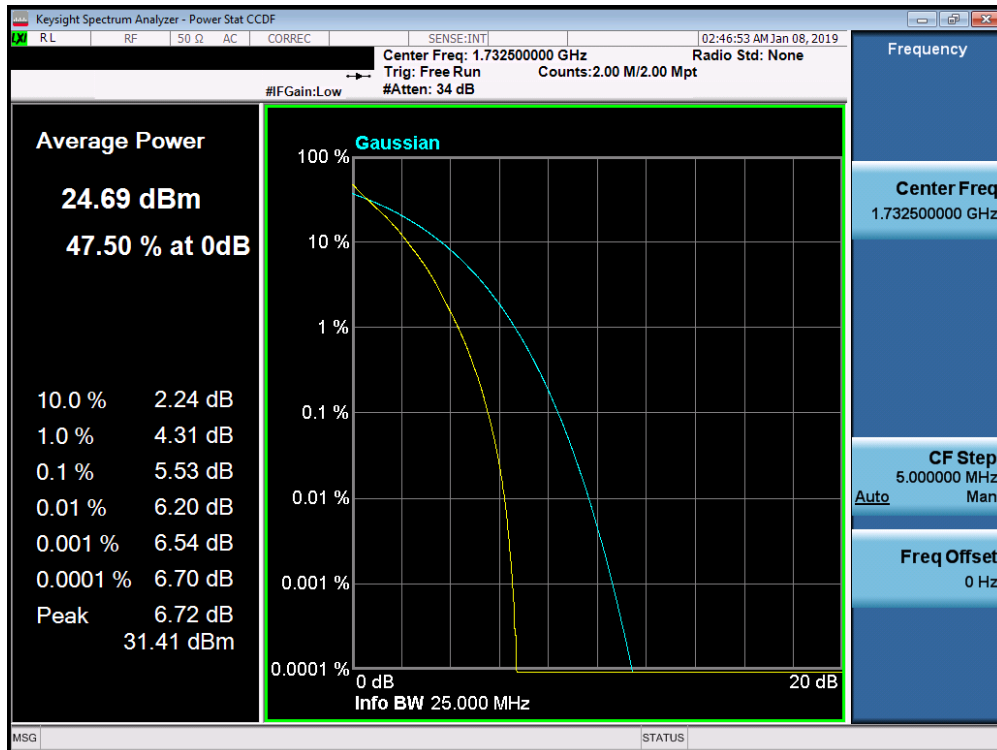


Plot 7-326. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 197 of 338

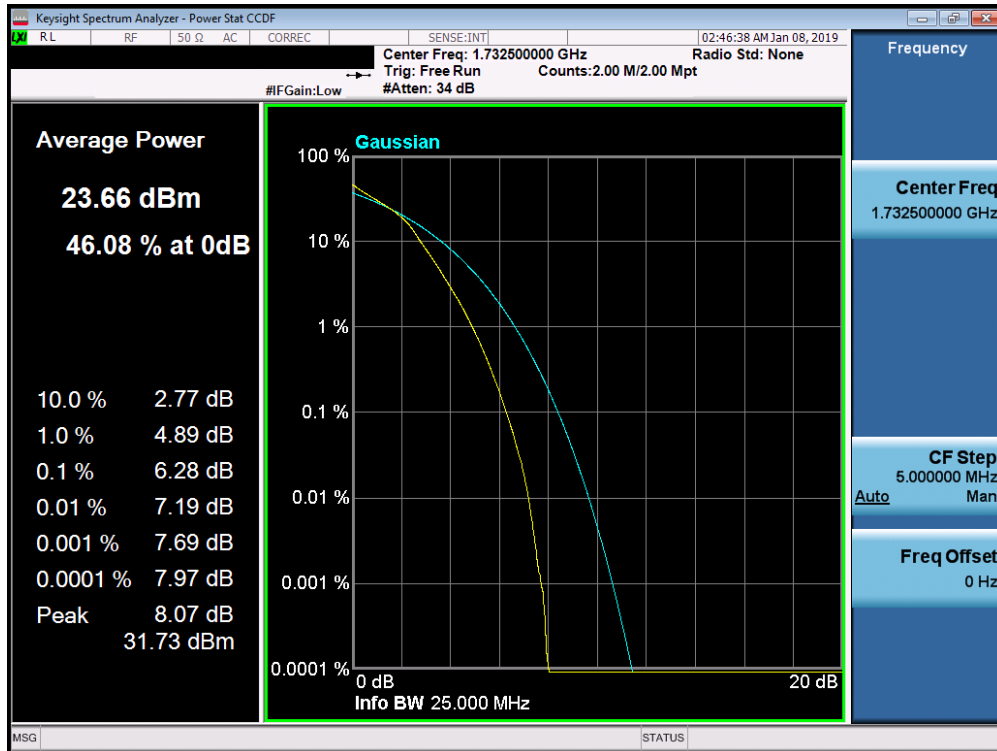


Plot 7-327. PAR Plot (Band 4 - 15.0MHz 64-QAM - Full RB Configuration)

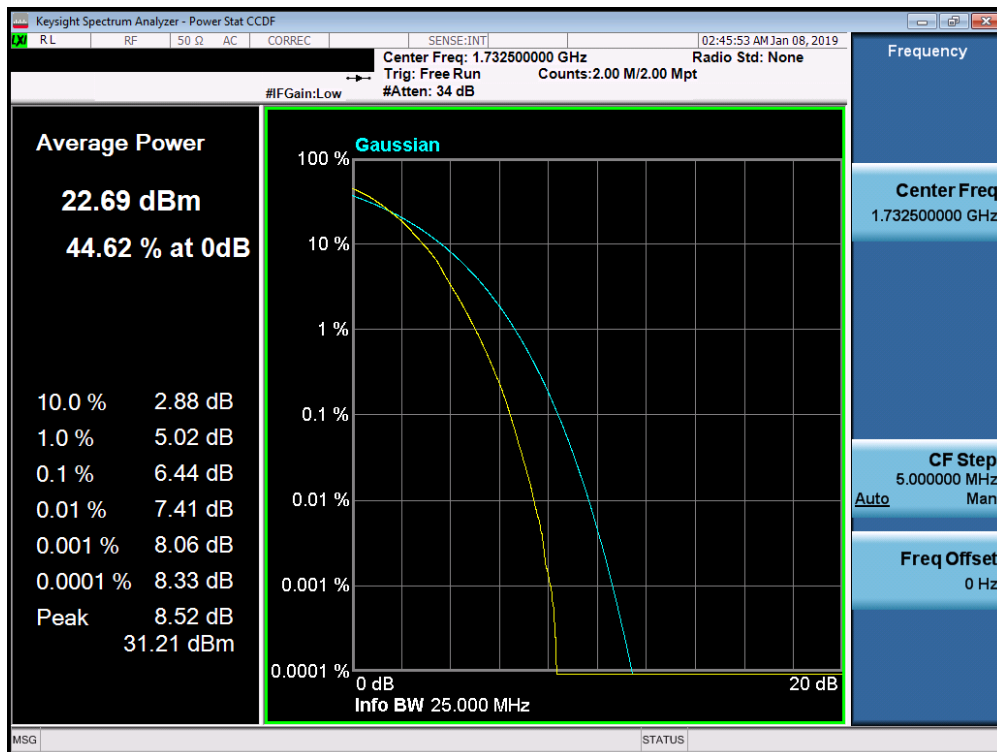


Plot 7-328. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 198 of 338



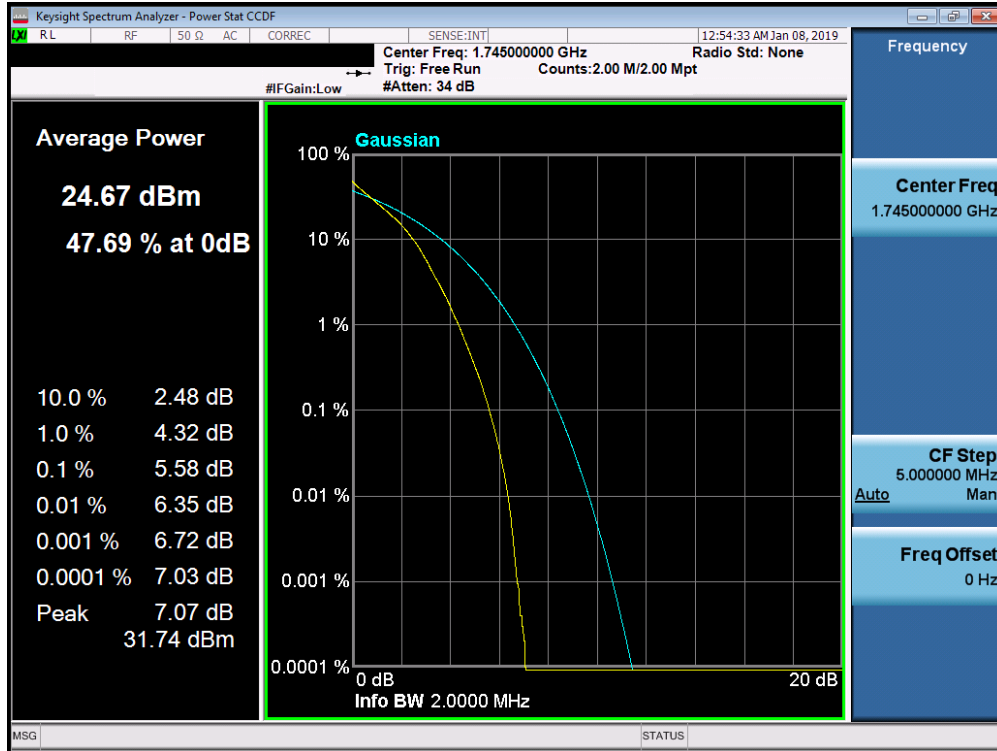
Plot 7-329. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)



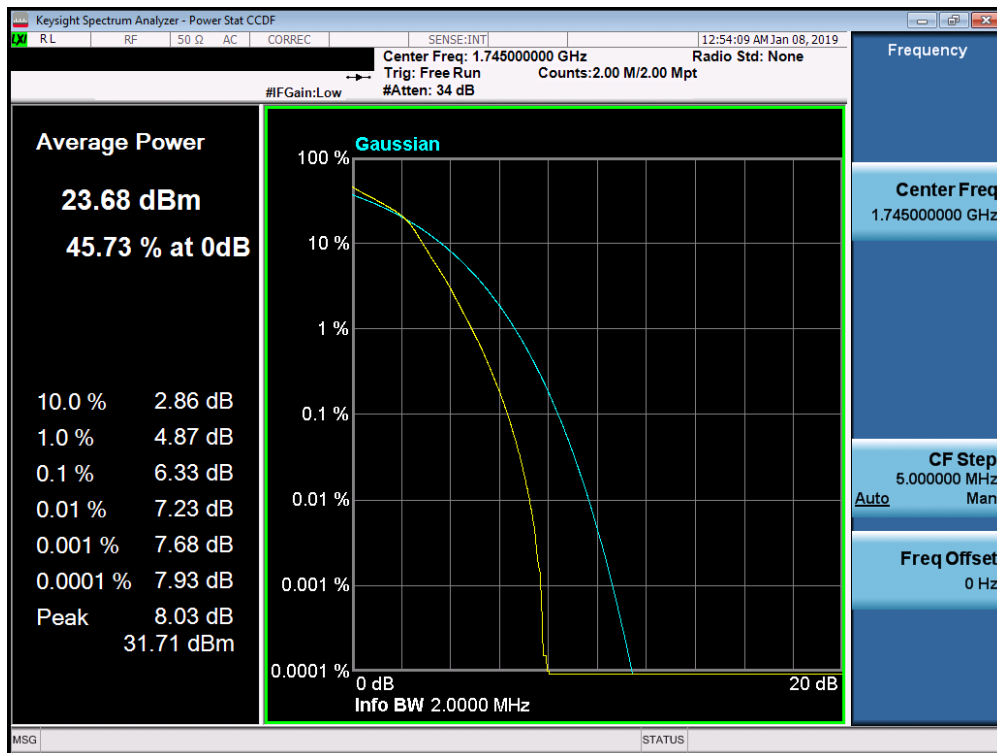
Plot 7-330. PAR Plot (Band 4 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 199 of 338

Band 66

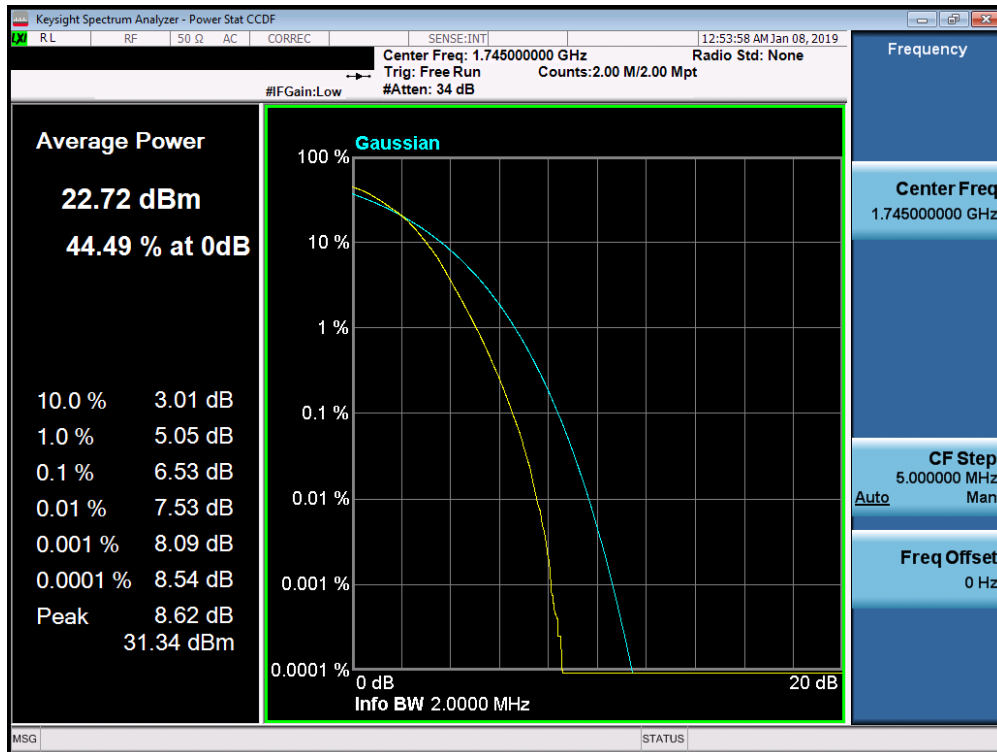


Plot 7-331. PAR Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

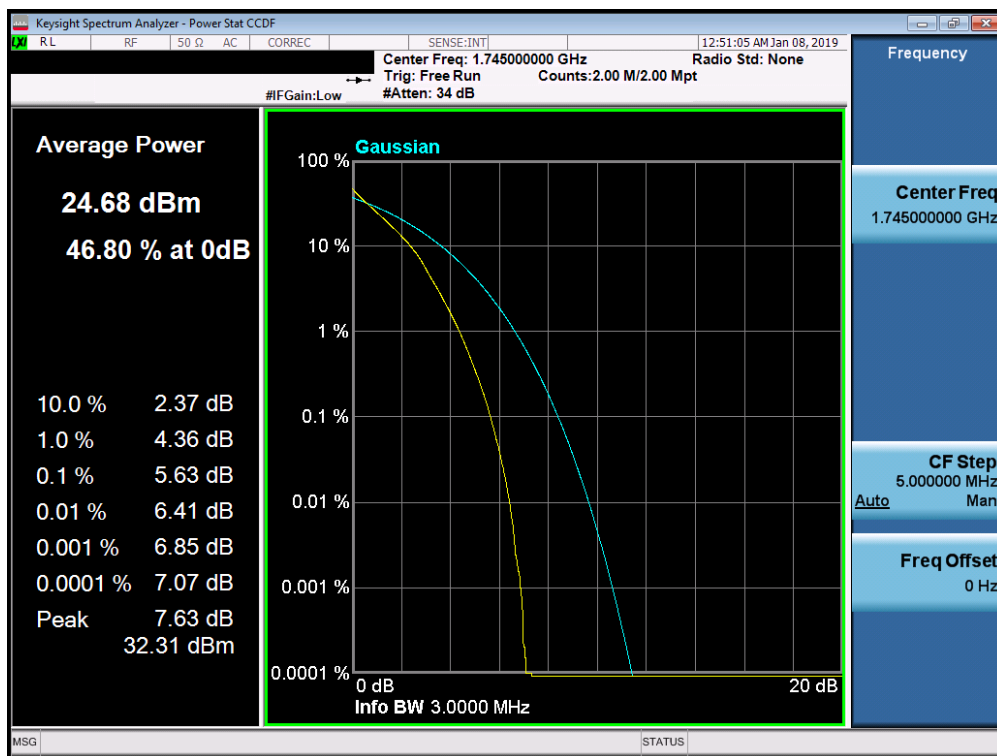


Plot 7-332. PAR Plot (Band 66 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 200 of 338

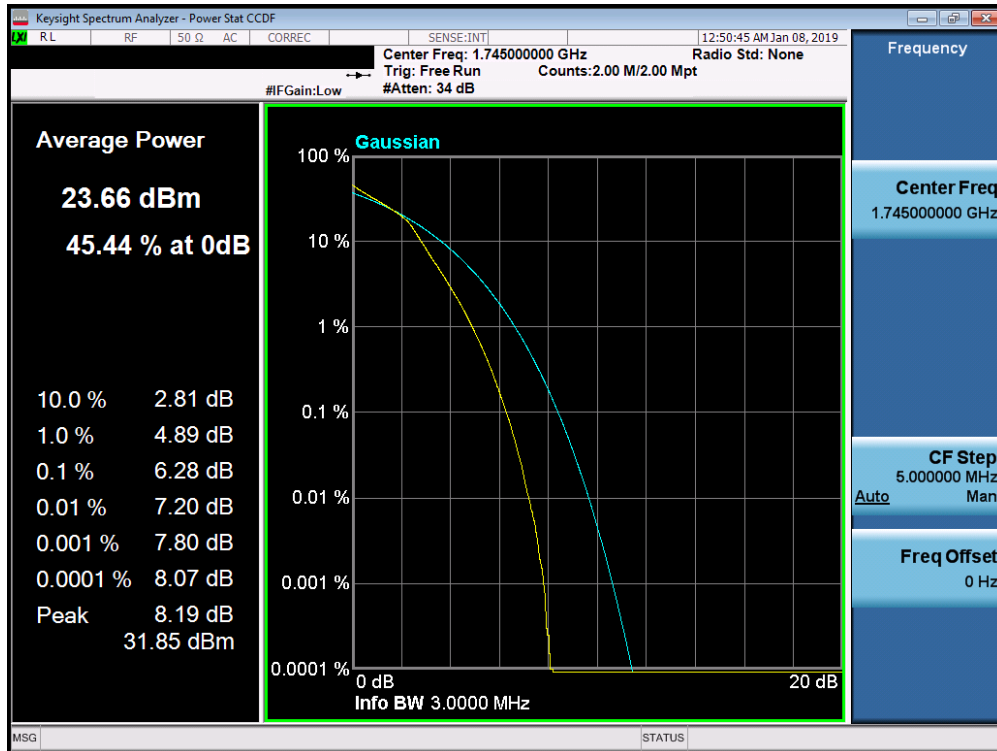


Plot 7-333. PAR Plot (Band 66 - 1.4MHz 64-QAM - Full RB Configuration)

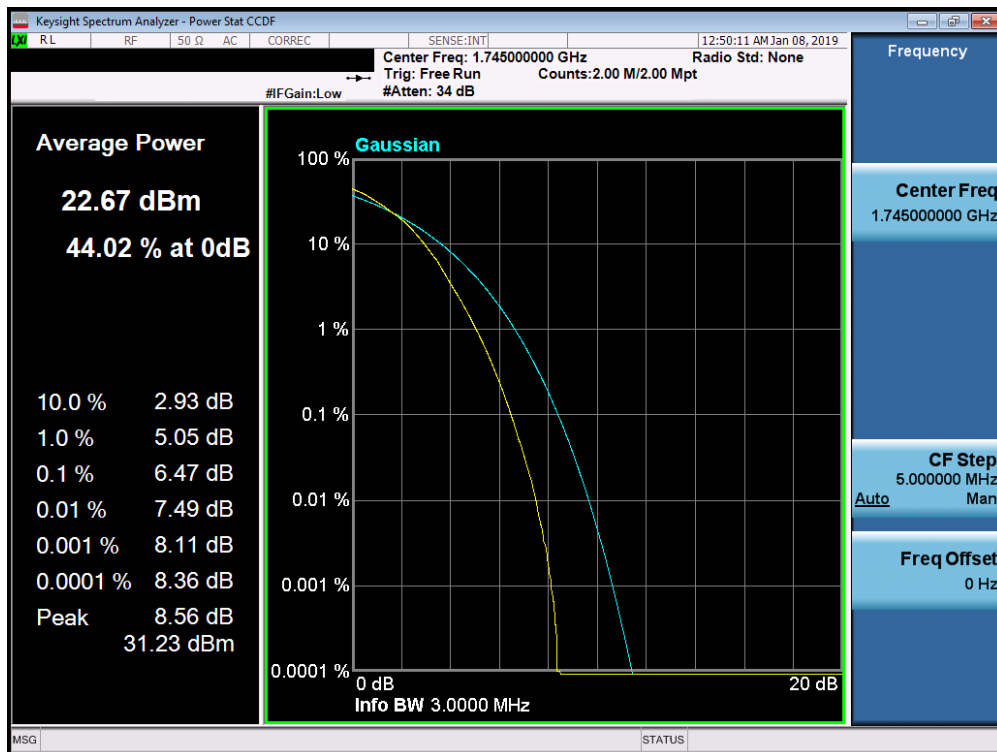


Plot 7-334. PAR Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 201 of 338

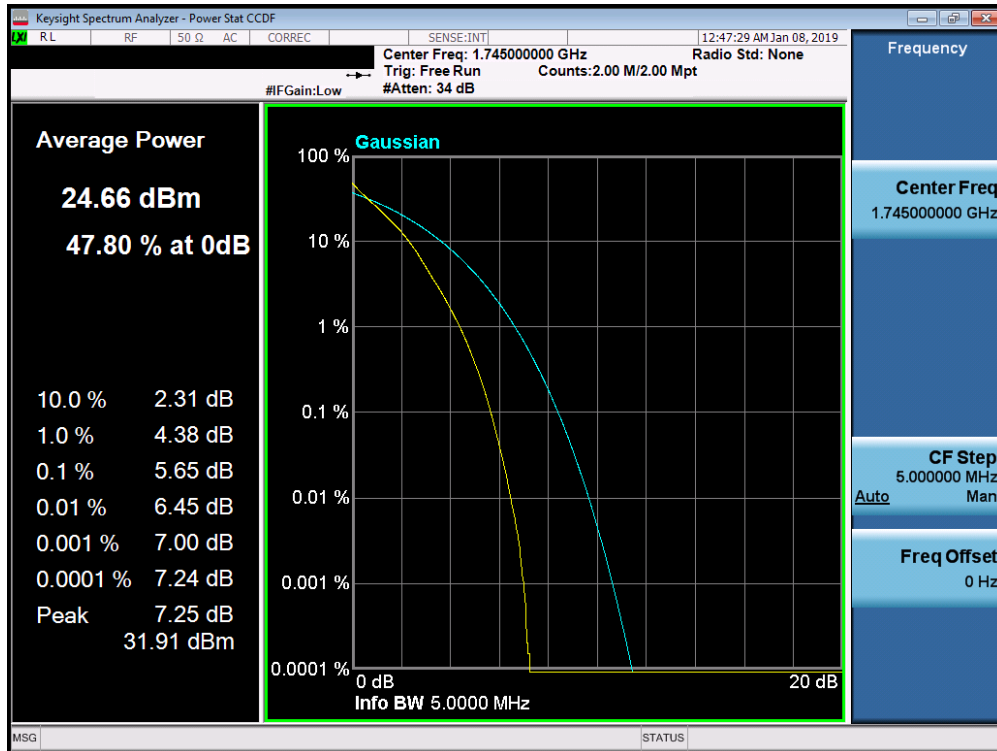


Plot 7-335. PAR Plot (Band 66 - 3.0MHz 16-QAM - Full RB Configuration)

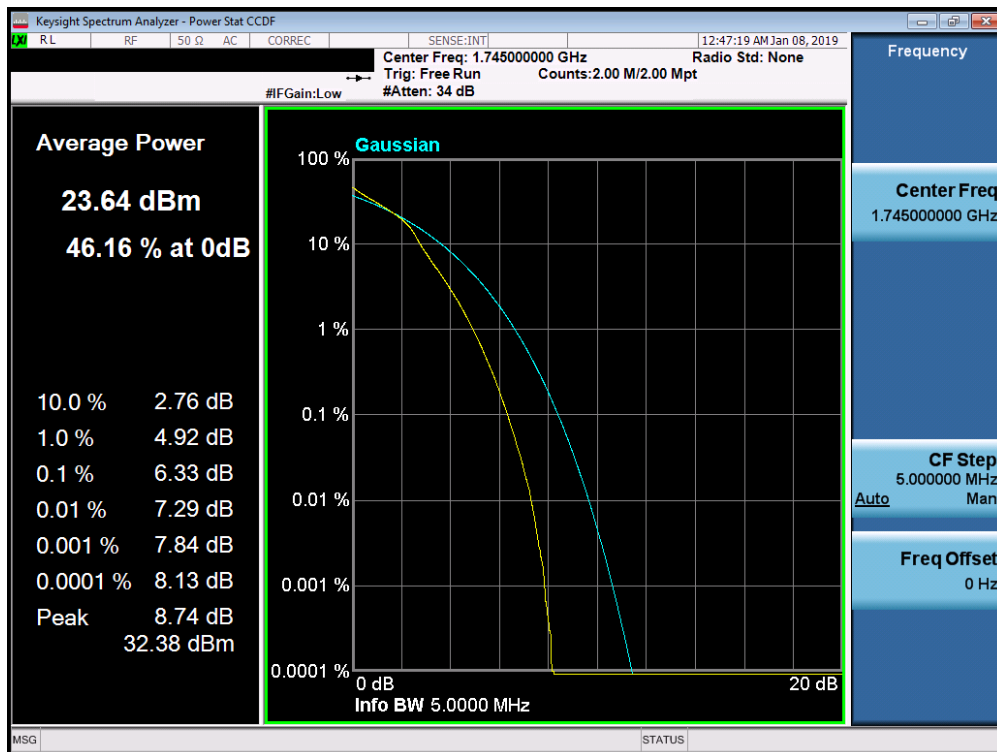


Plot 7-336. PAR Plot (Band 66 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 202 of 338

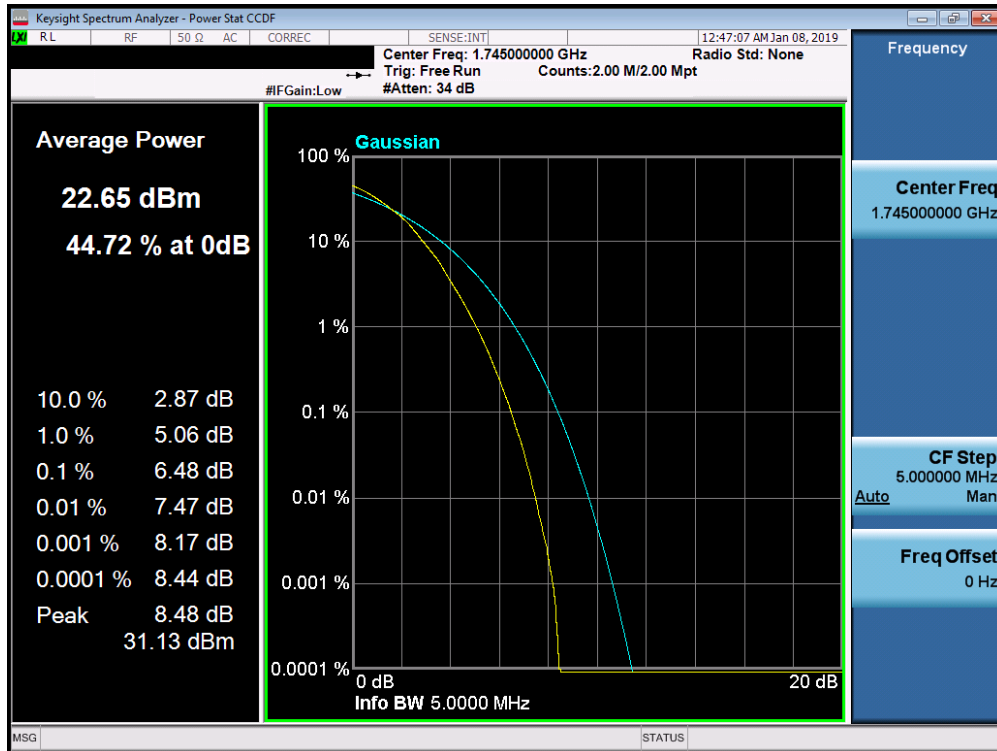


Plot 7-337. PAR Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

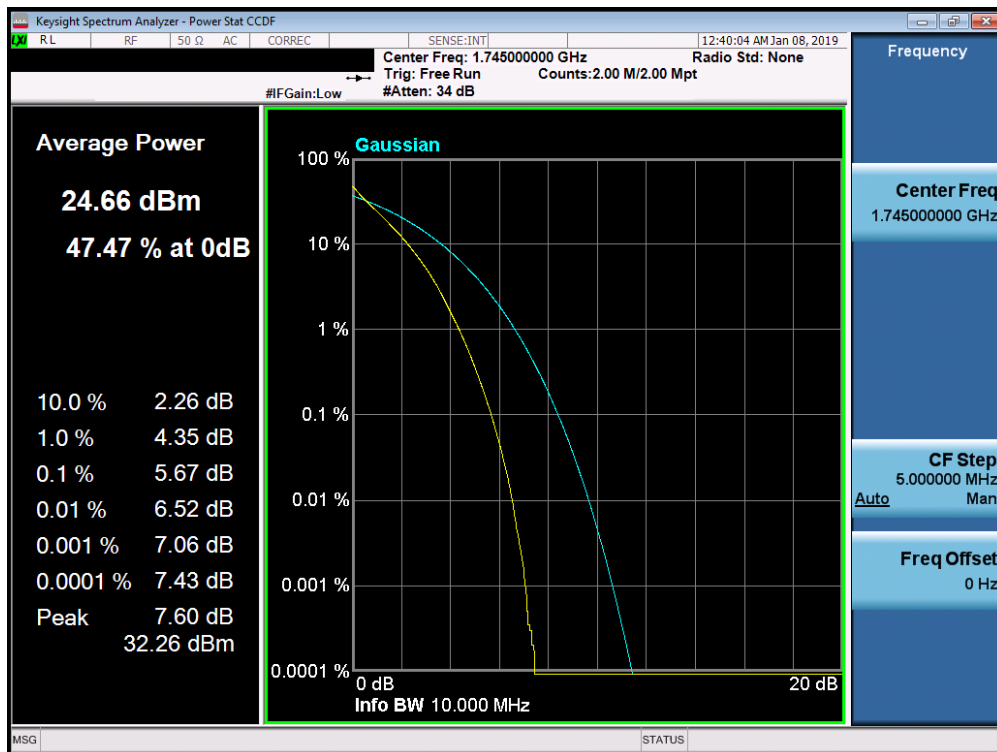


Plot 7-338. PAR Plot (Band 66 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 203 of 338

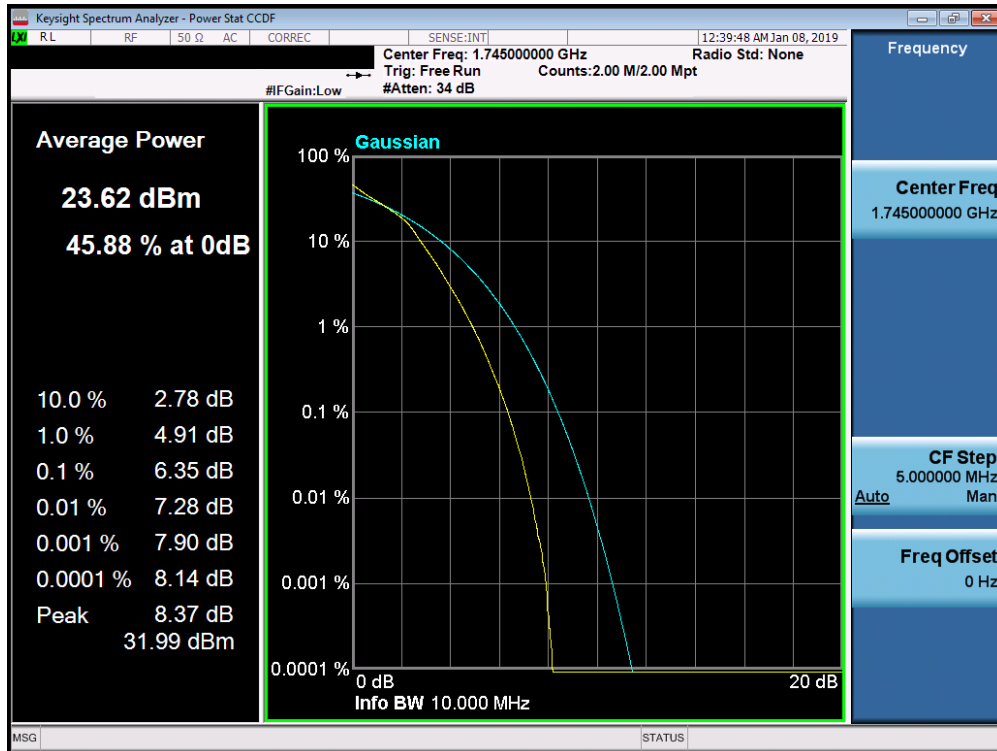


Plot 7-339. PAR Plot (Band 66 - 5.0MHz 64-QAM - Full RB Configuration)

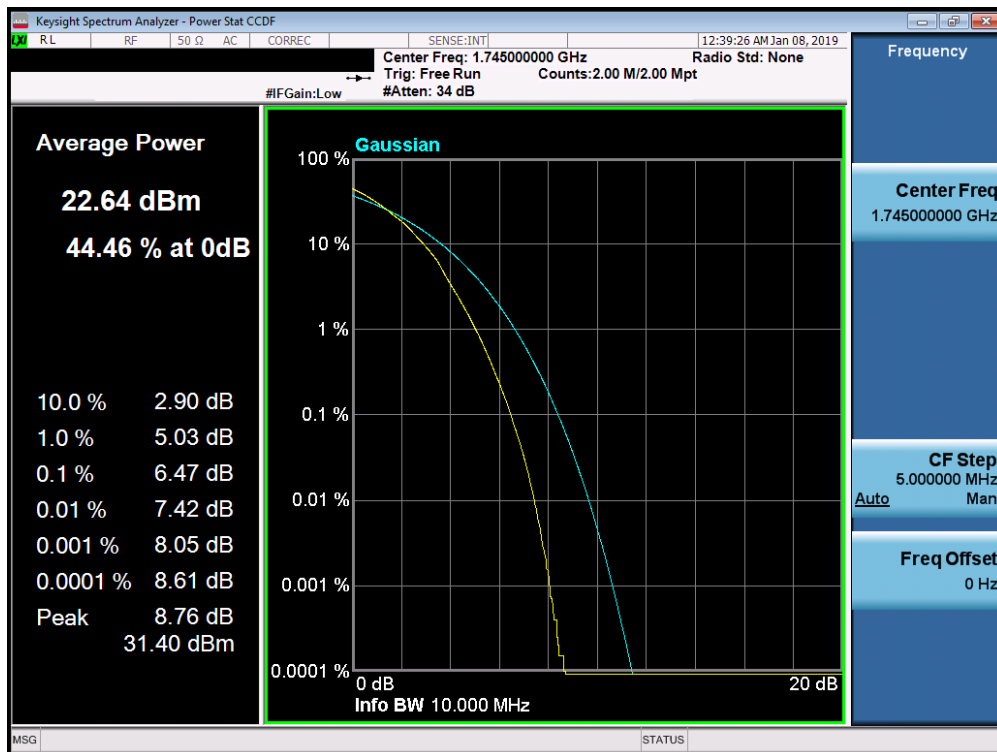


Plot 7-340. PAR Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 204 of 338

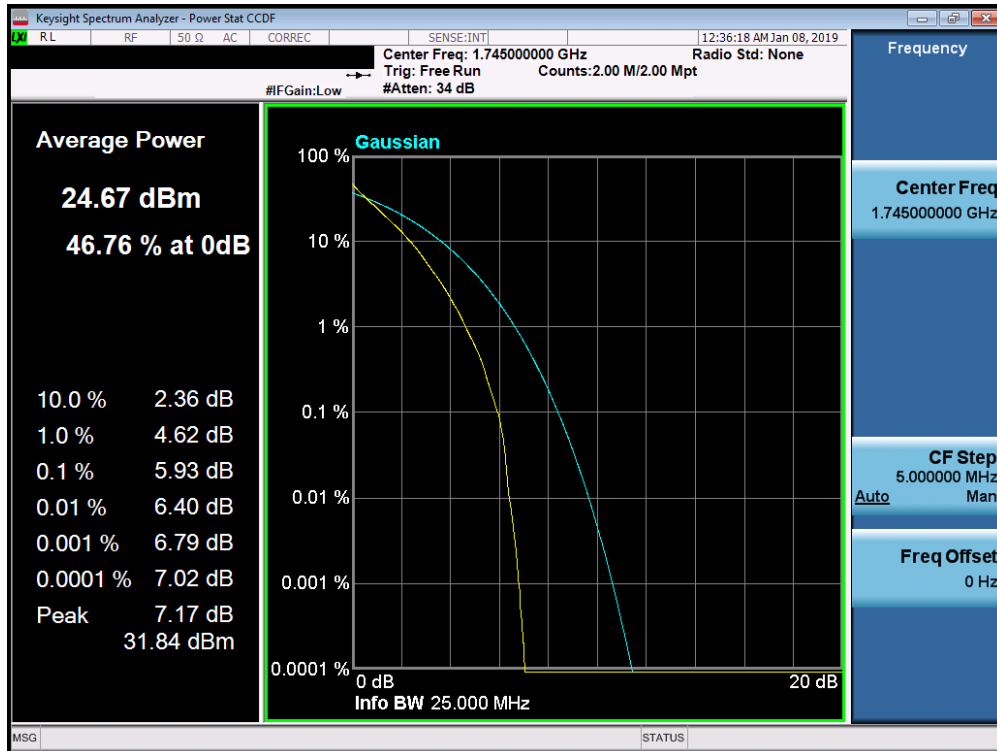


Plot 7-341. PAR Plot (Band 66 - 10.0MHz 16-QAM - Full RB Configuration)

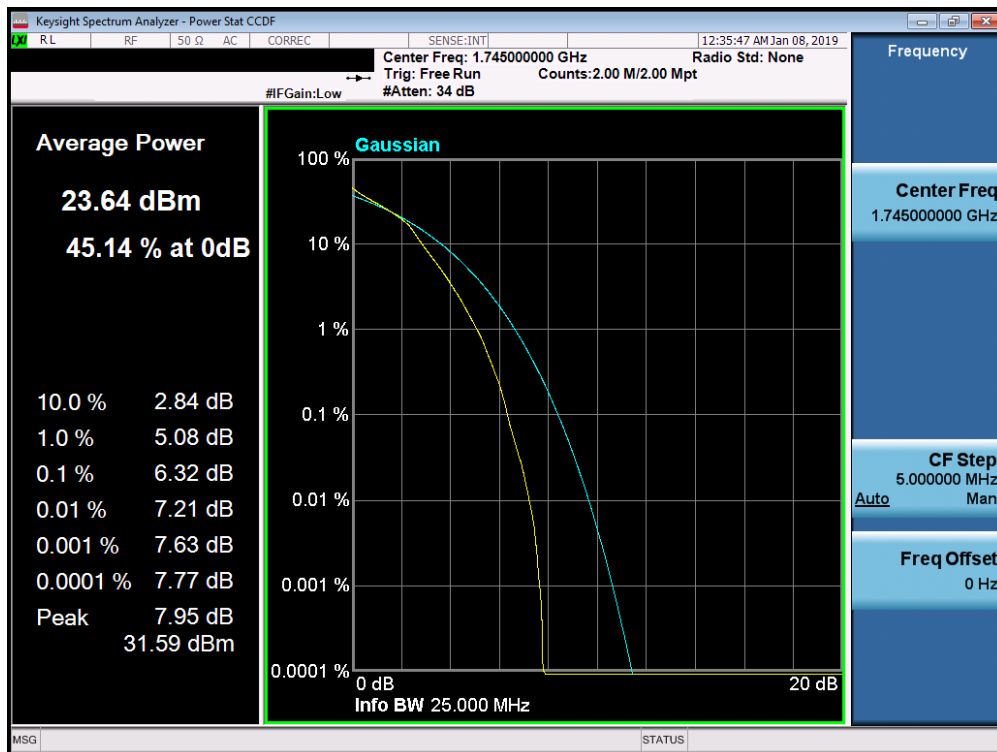


Plot 7-342. PAR Plot (Band 66 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 205 of 338

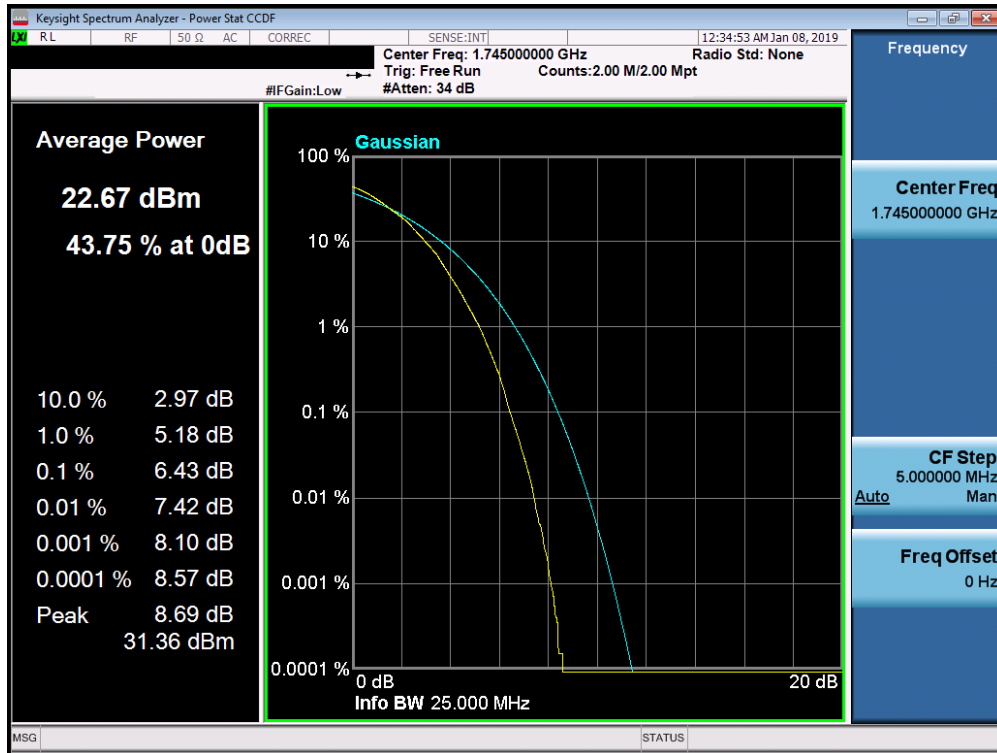


Plot 7-343. PAR Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

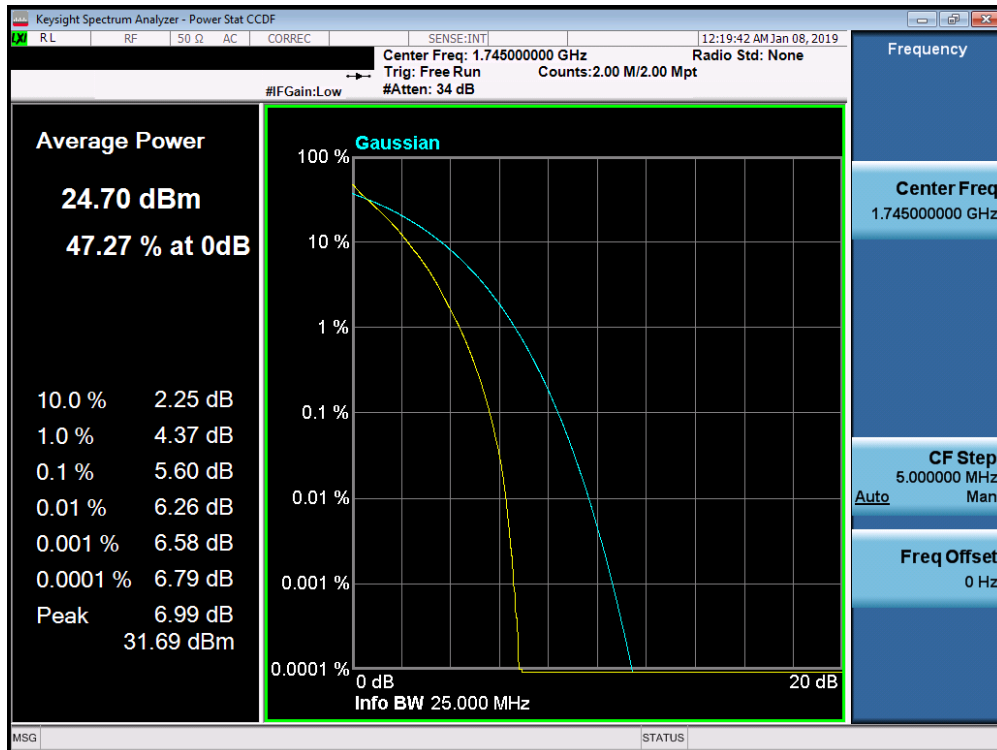


Plot 7-344. PAR Plot (Band 66 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 206 of 338

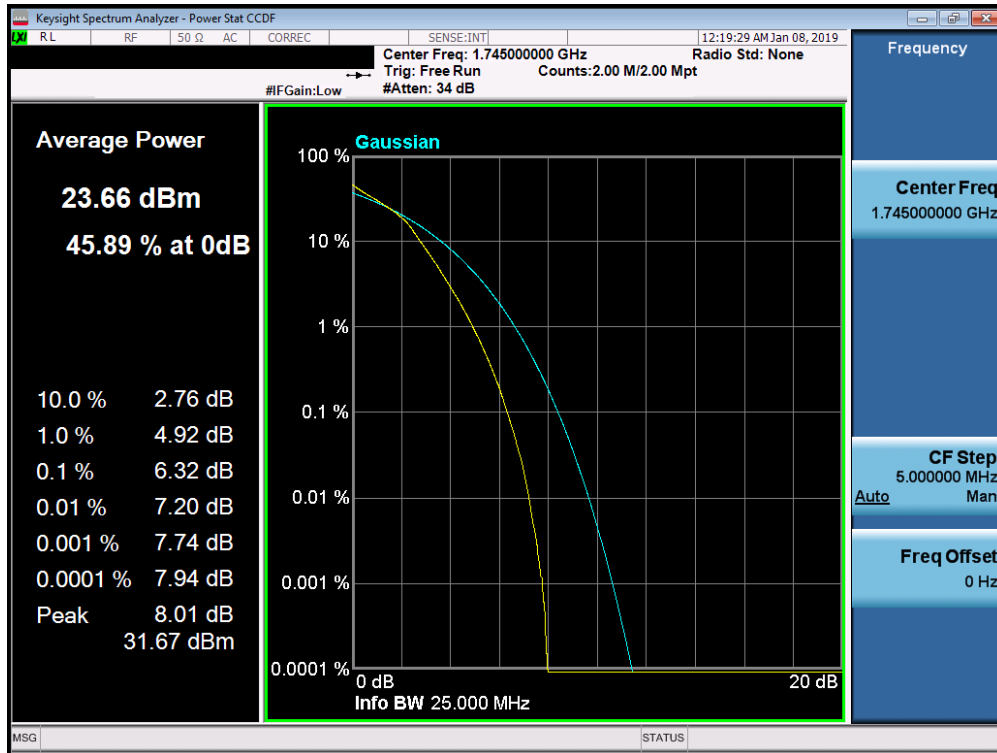


Plot 7-345. PAR Plot (Band 66 - 15.0MHz 64-QAM - Full RB Configuration)

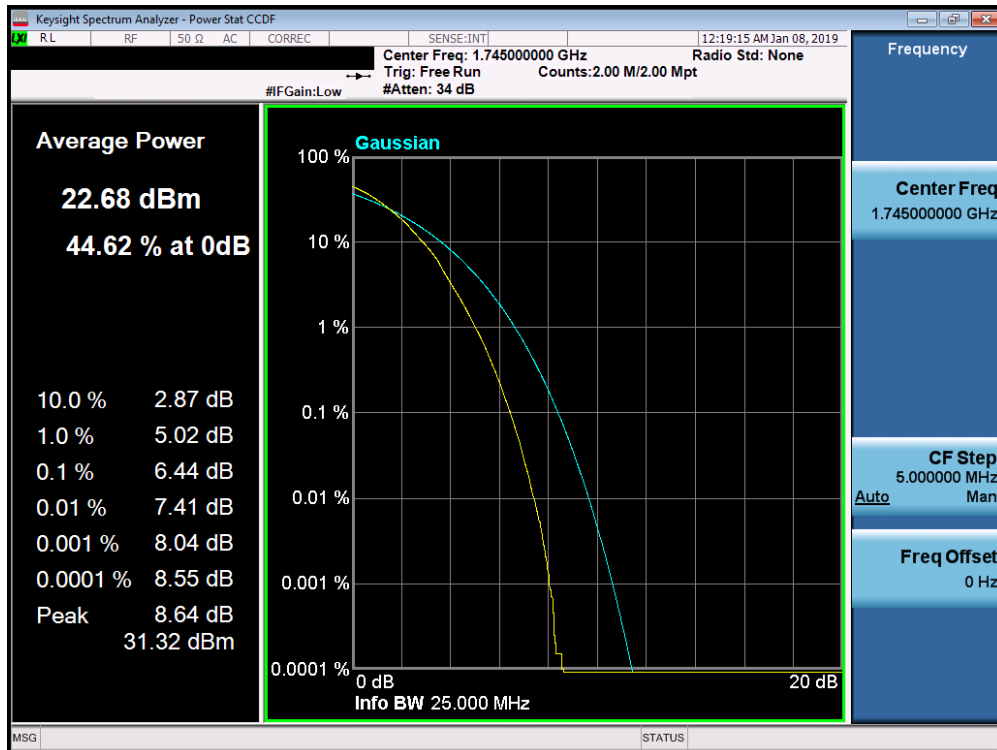


Plot 7-346. PAR Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 207 of 338



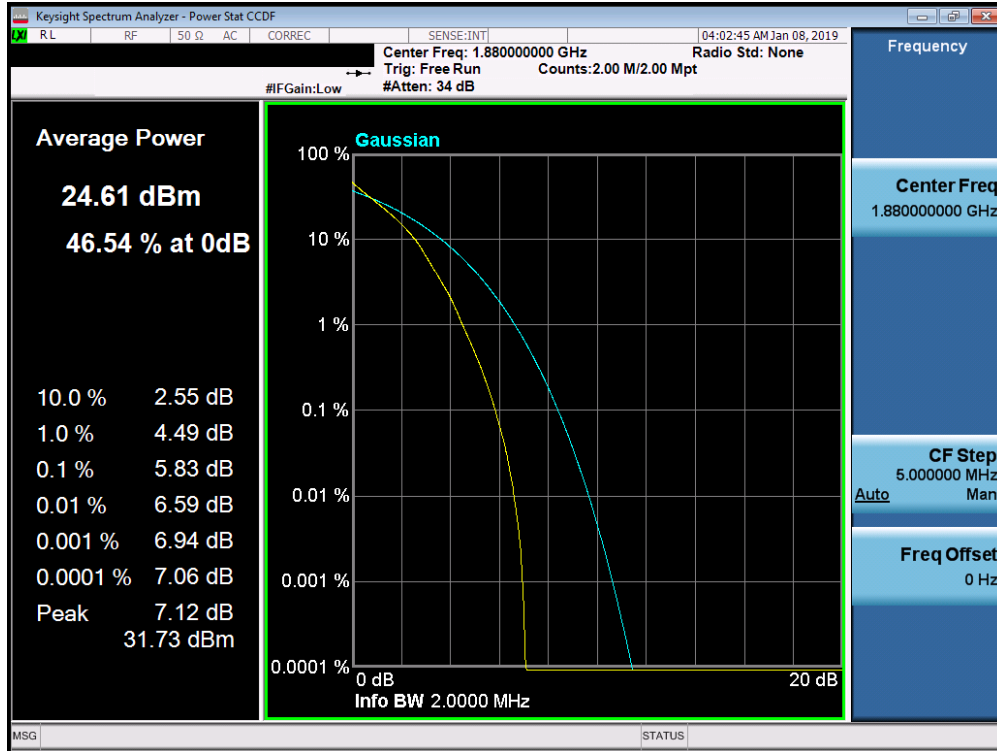
Plot 7-347. PAR Plot (Band 66 - 20.0MHz 16-QAM - Full RB Configuration)



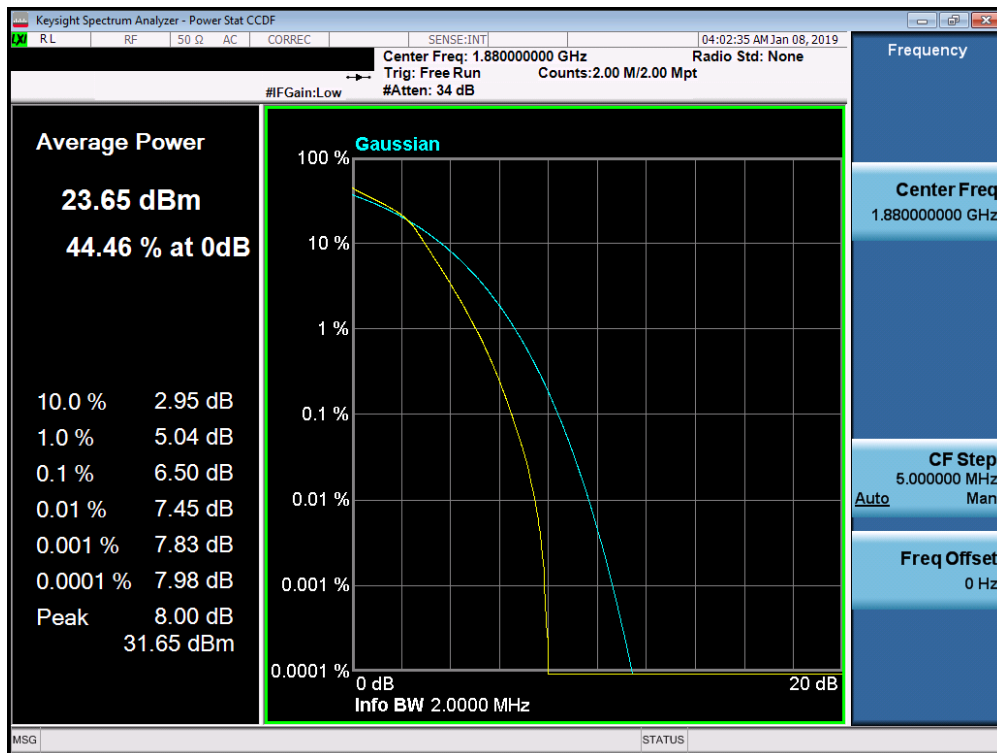
Plot 7-348. PAR Plot (Band 66 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 208 of 338

Band 2

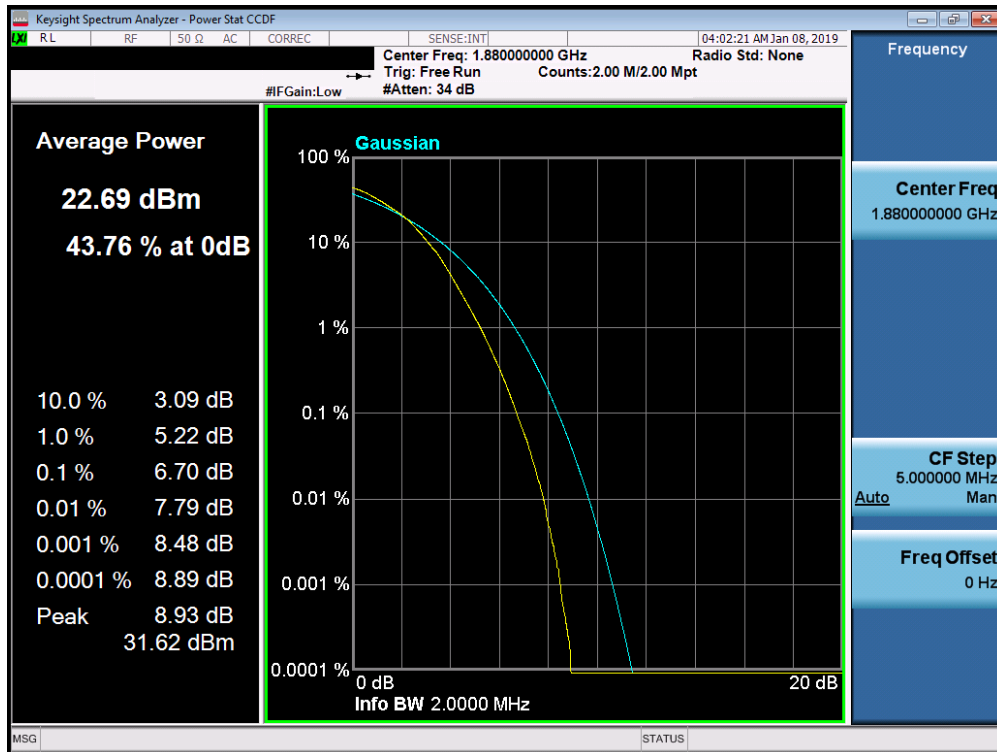


Plot 7-349. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

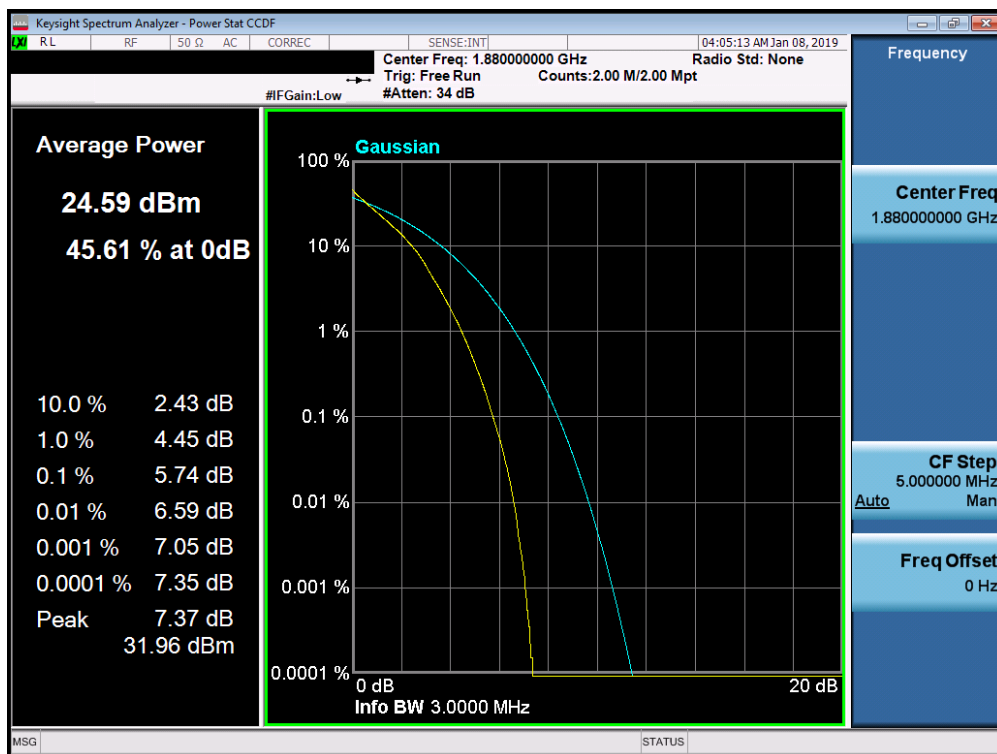


Plot 7-350. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 209 of 338

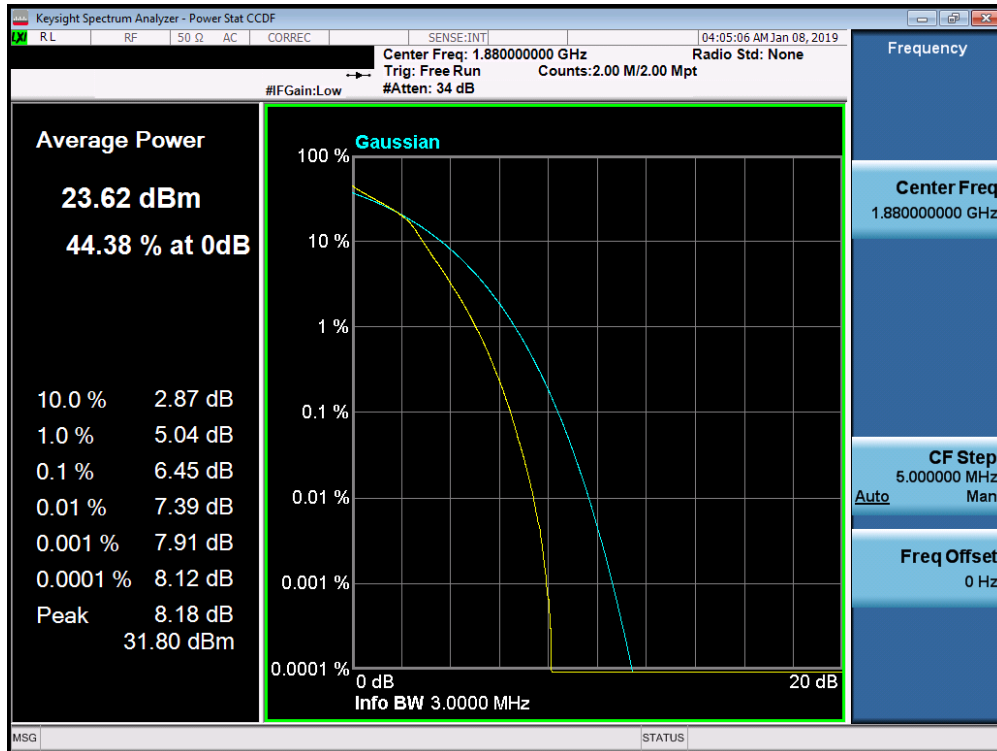


Plot 7-351. PAR Plot (Band 2 - 1.4MHz 64-QAM - Full RB Configuration)

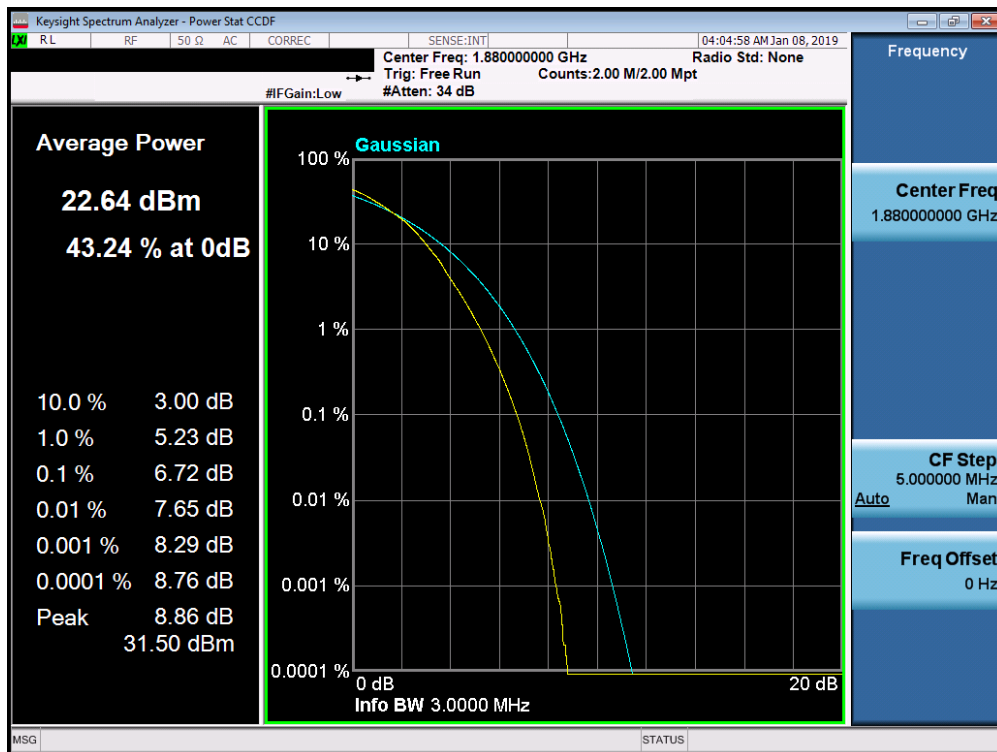


Plot 7-352. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 210 of 338

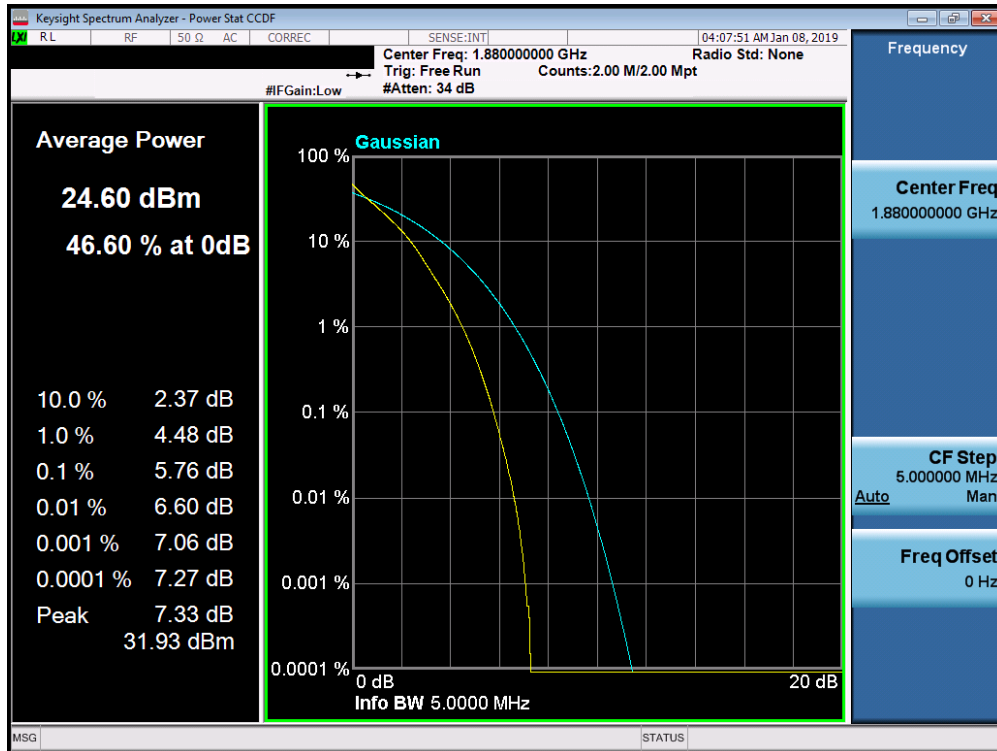


Plot 7-353. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

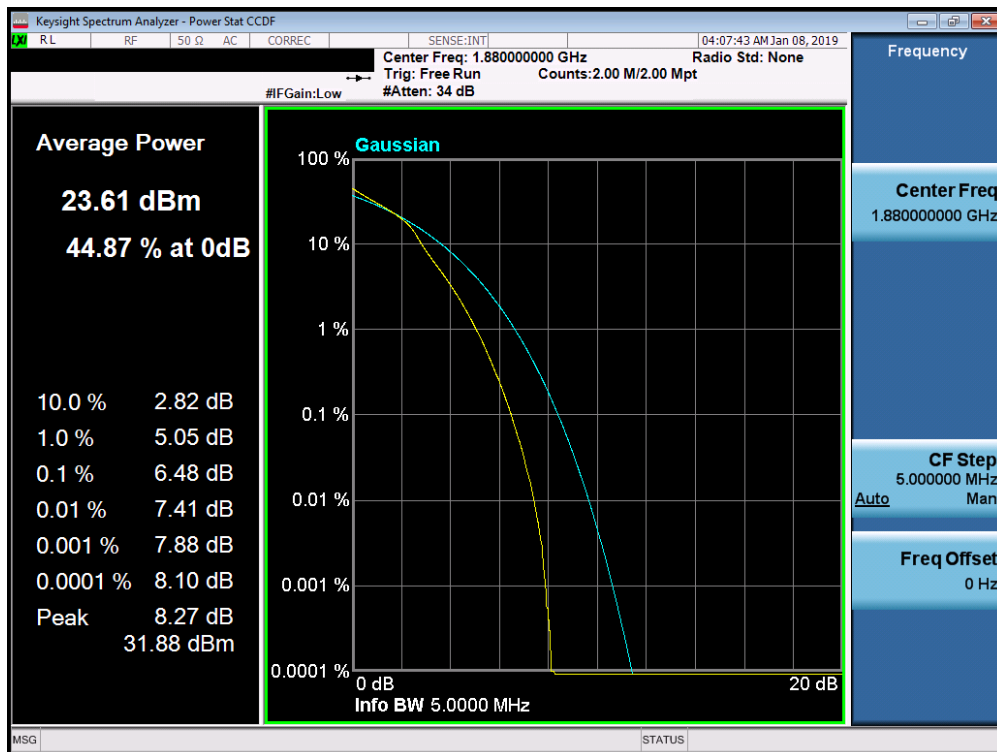


Plot 7-354. PAR Plot (Band 2 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 211 of 338

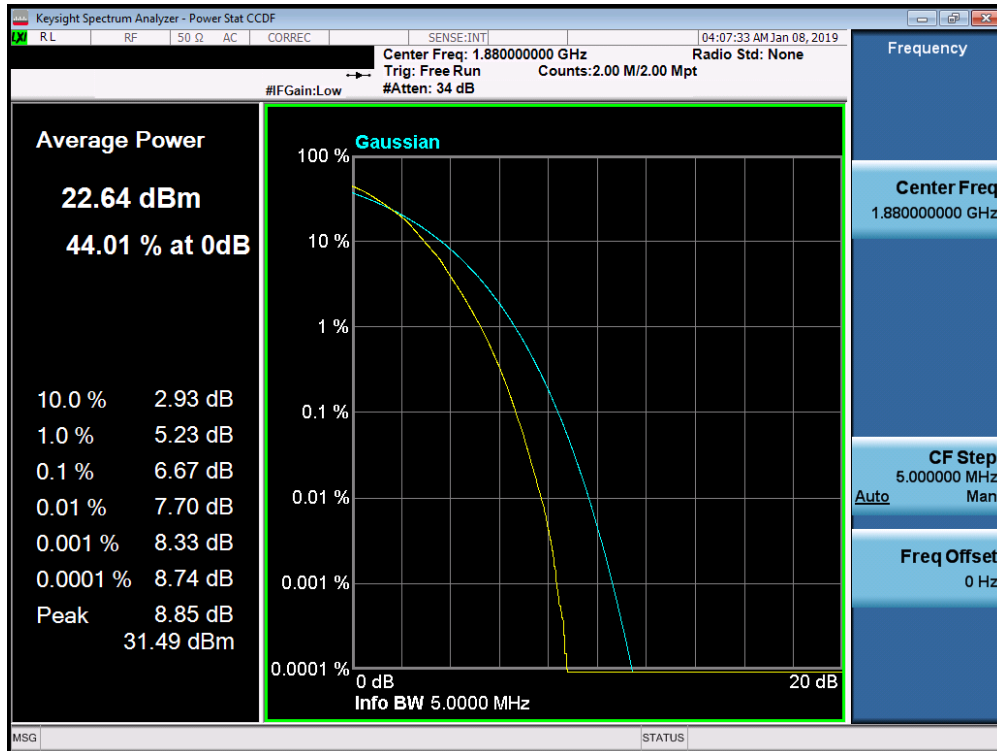


Plot 7-355. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

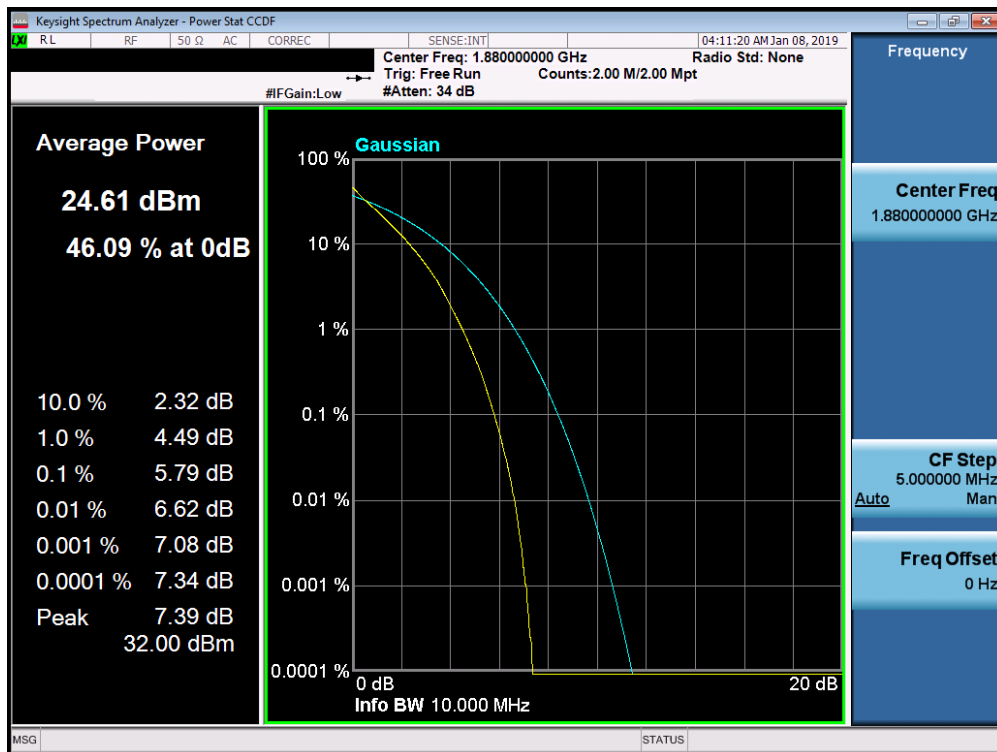


Plot 7-356. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 212 of 338

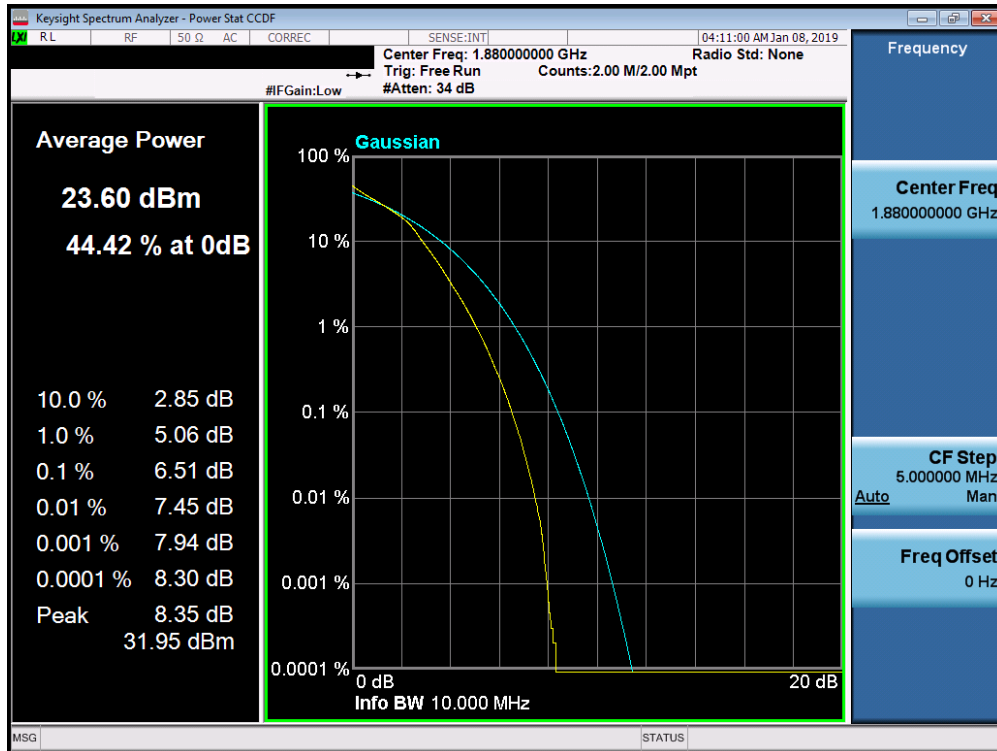


Plot 7-357. PAR Plot (Band 2 - 5.0MHz 64-QAM - Full RB Configuration)

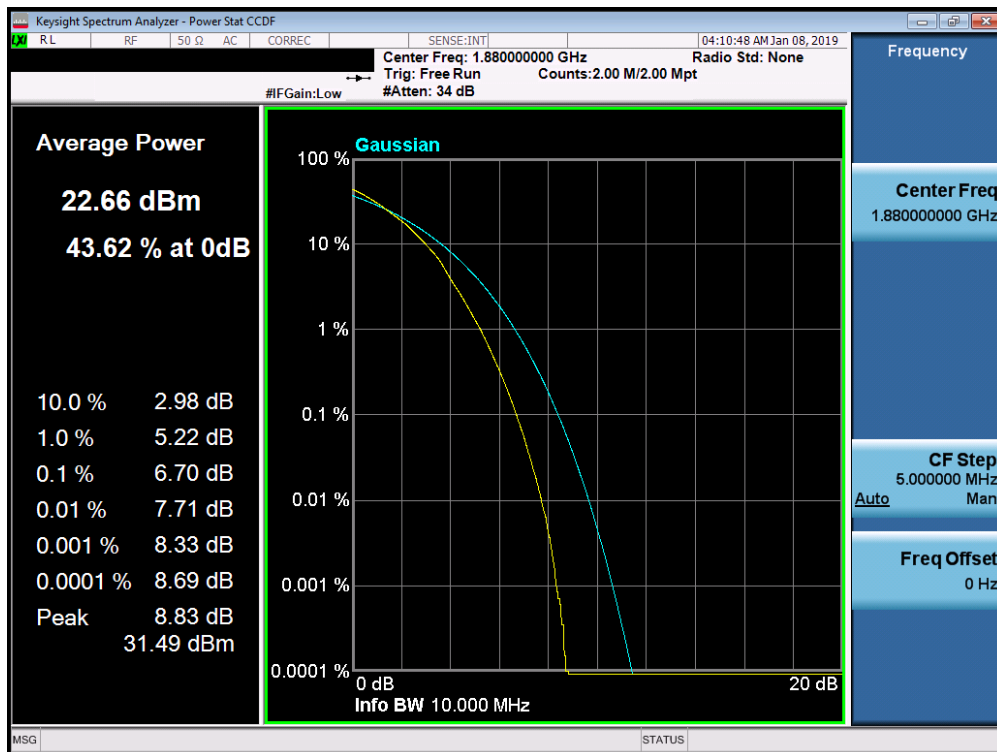


Plot 7-358. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 213 of 338

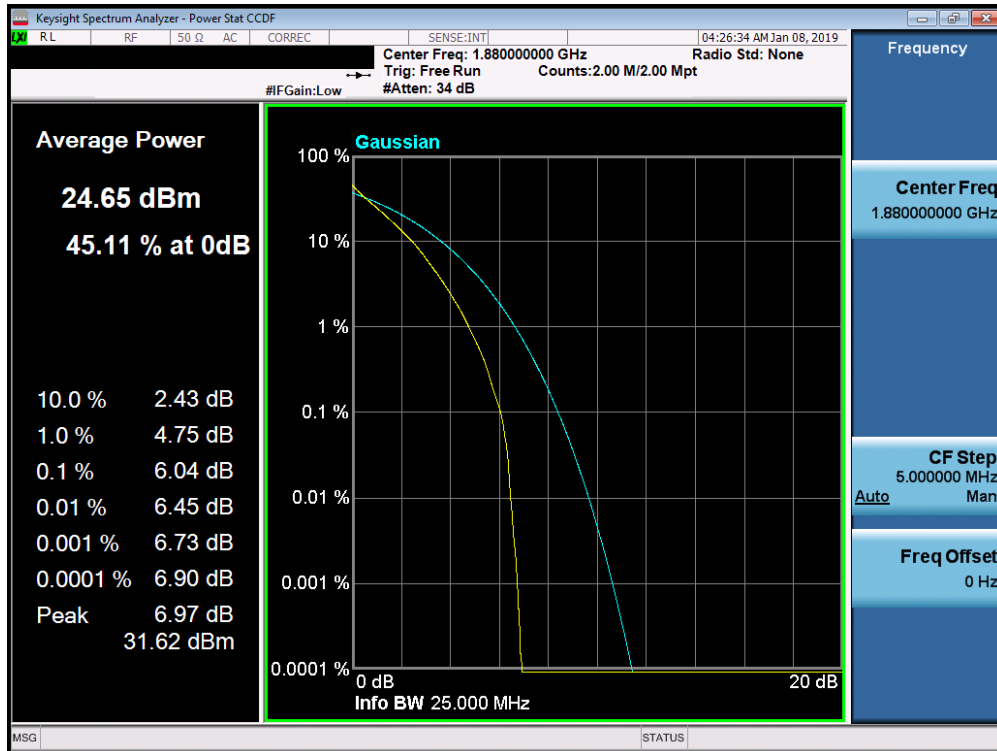


Plot 7-359. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

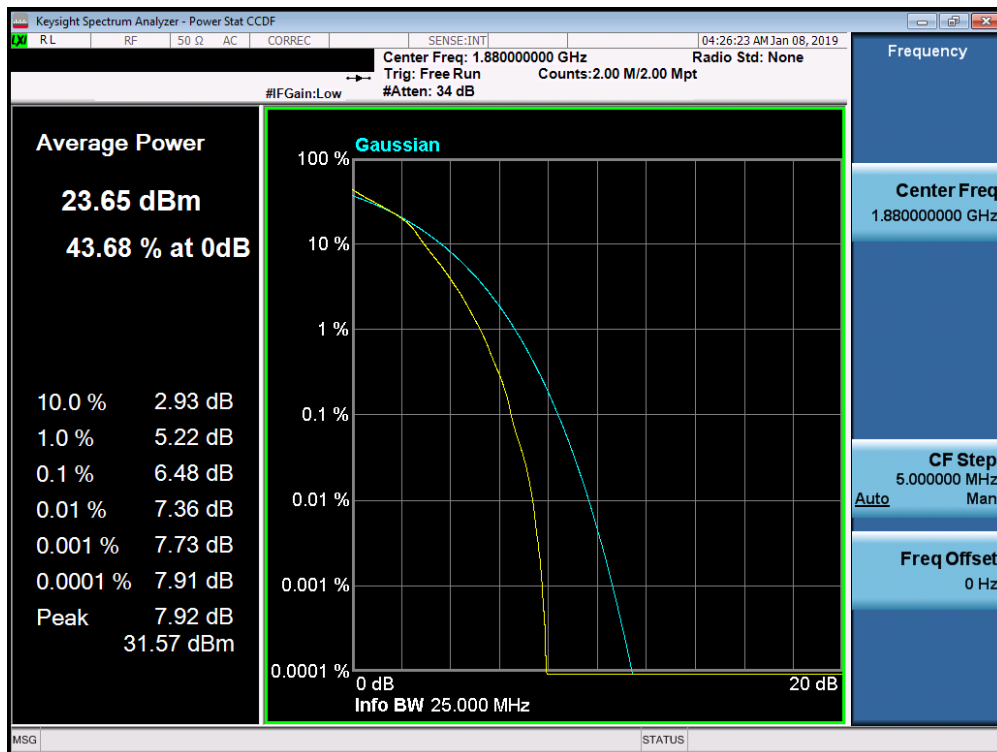


Plot 7-360. PAR Plot (Band 2 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 214 of 338

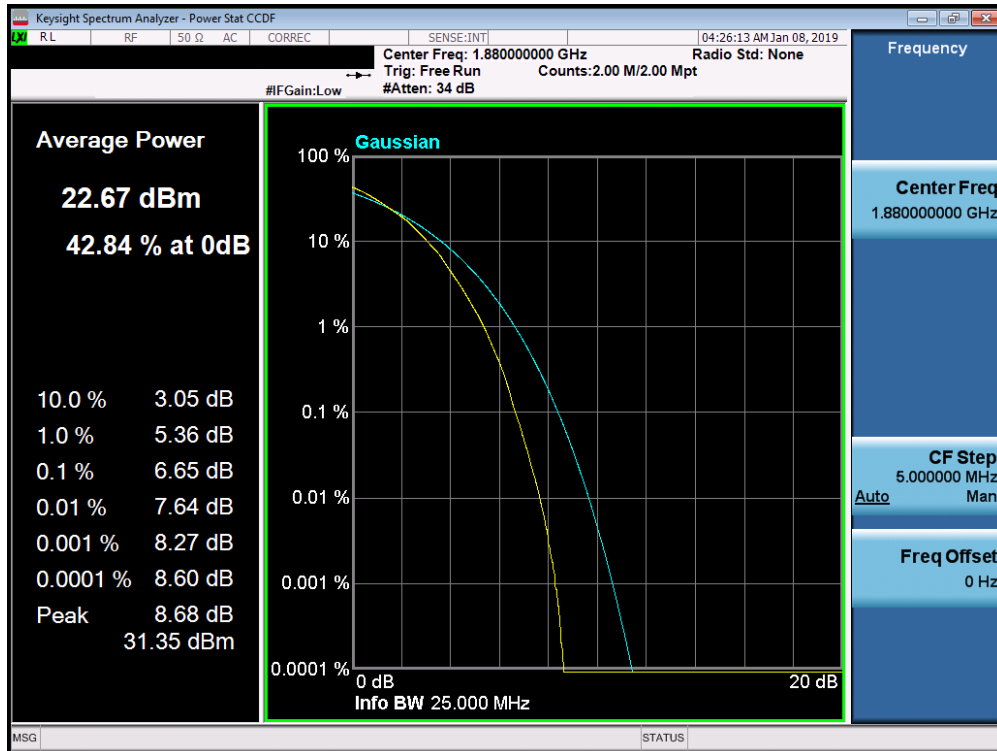


Plot 7-361. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

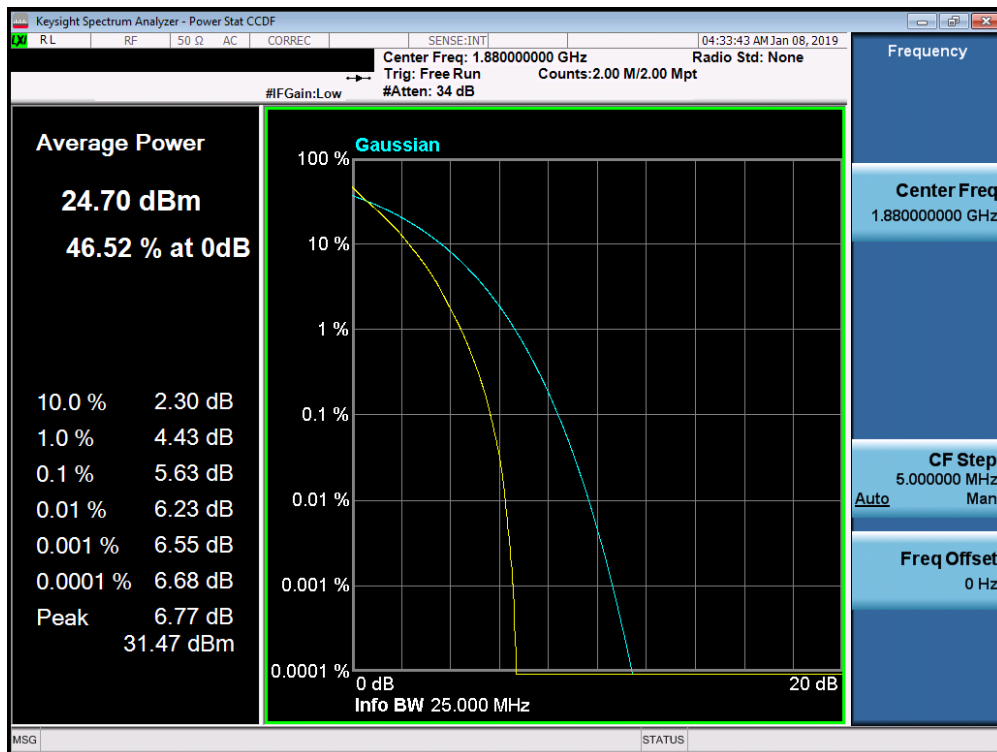


Plot 7-362. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 215 of 338

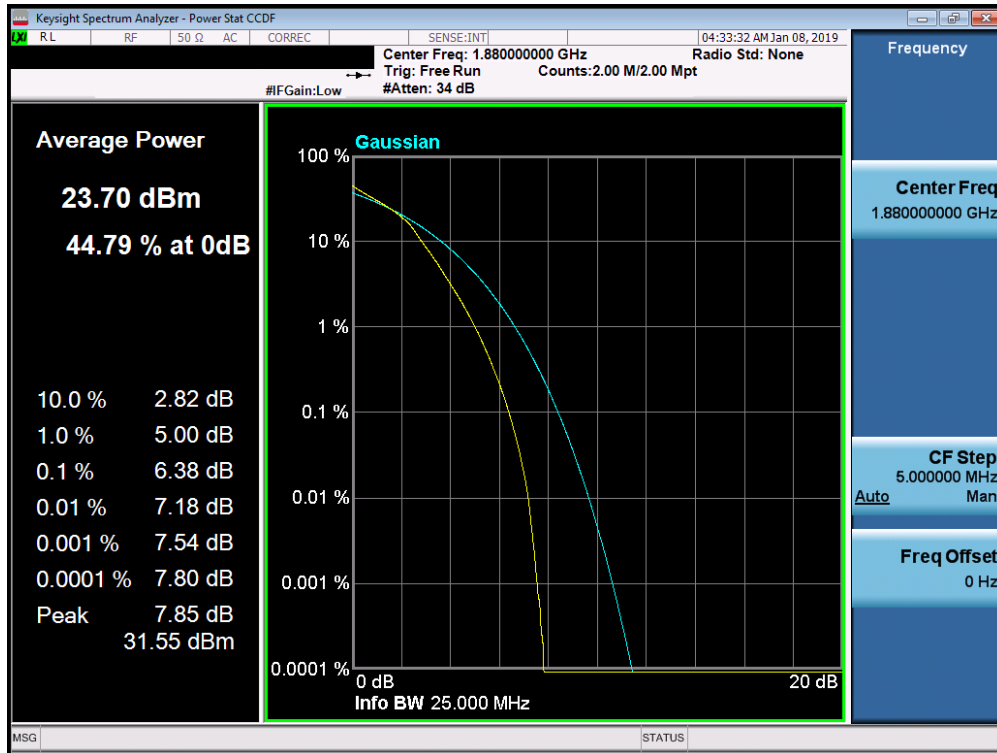


Plot 7-363. PAR Plot (Band 2 - 15.0MHz 64-QAM - Full RB Configuration)

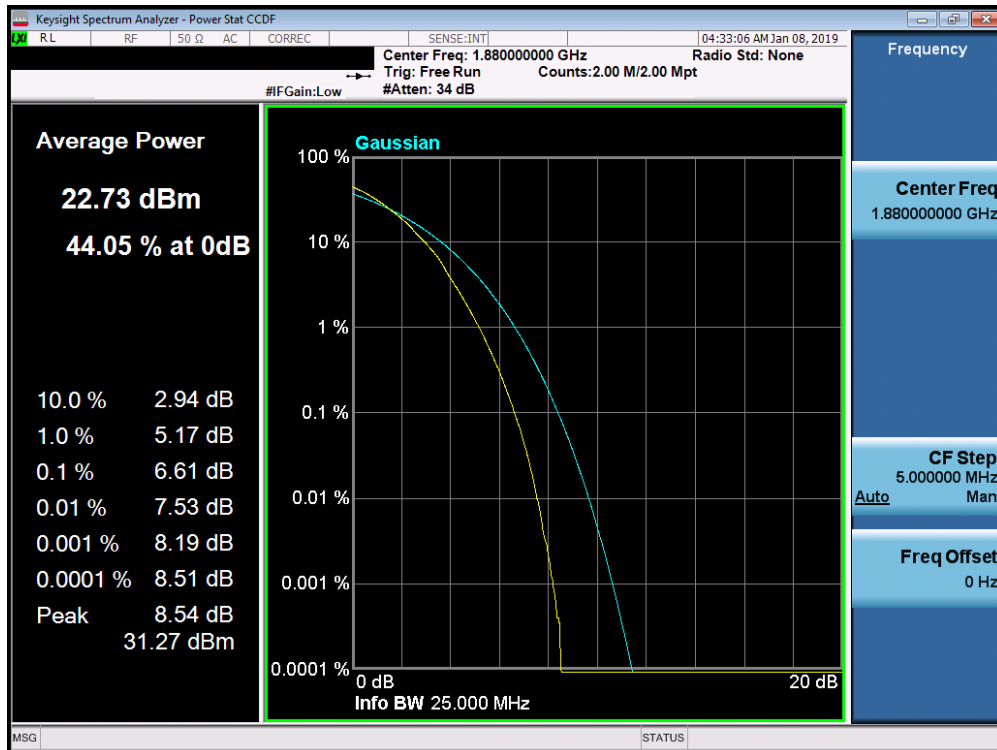


Plot 7-364. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 216 of 338



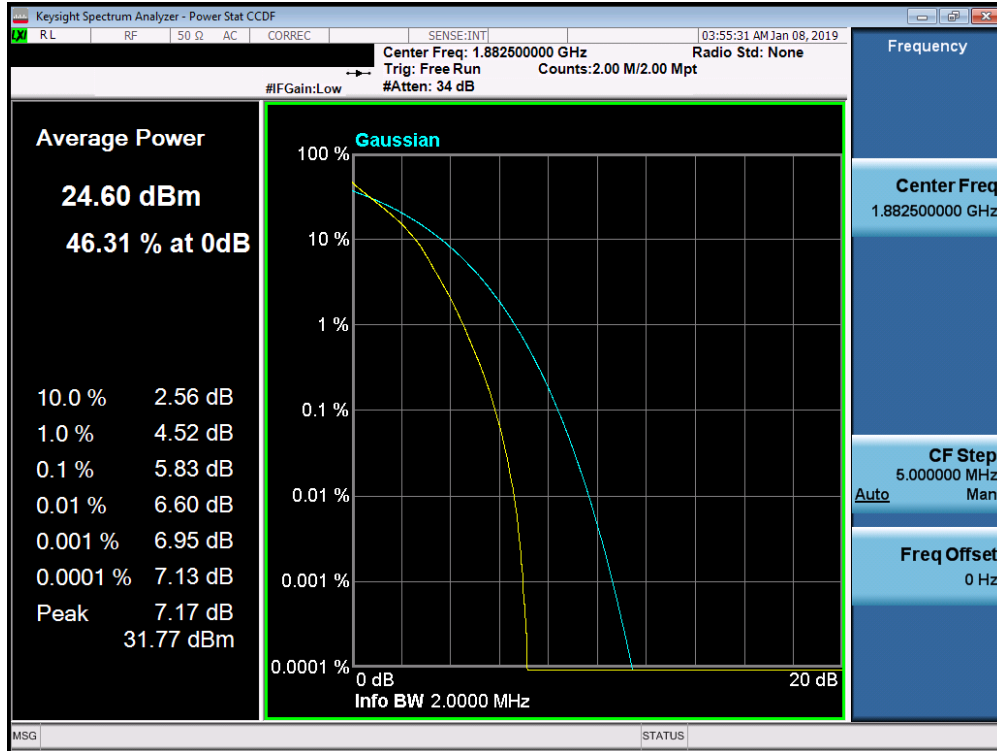
Plot 7-365. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)



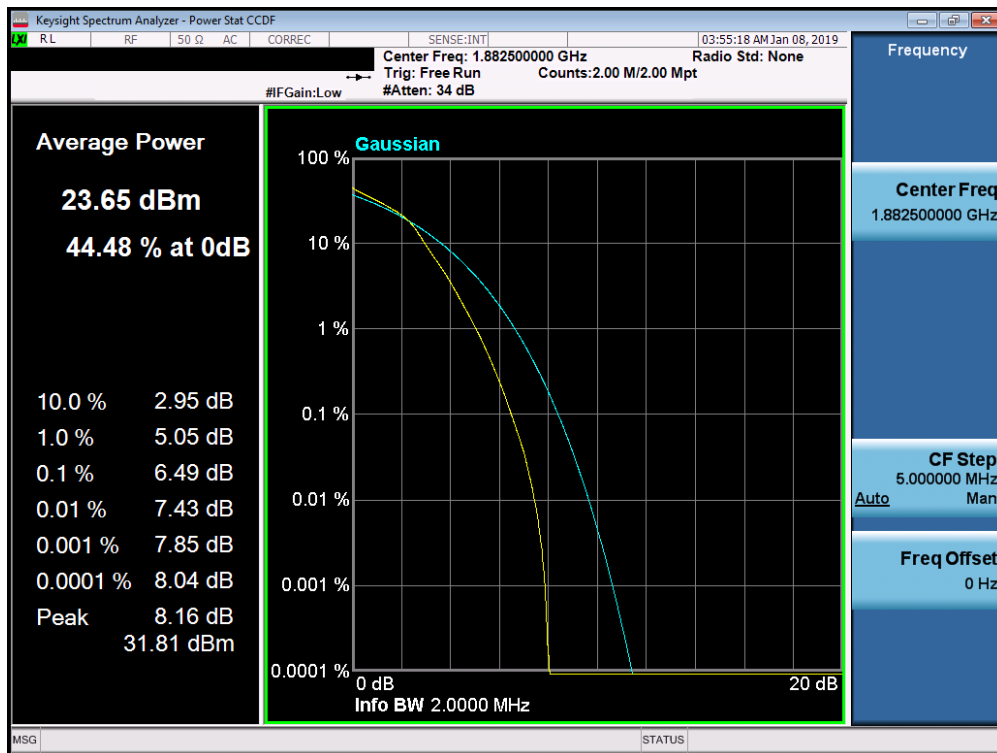
Plot 7-366. PAR Plot (Band 2 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 217 of 338

Band 25

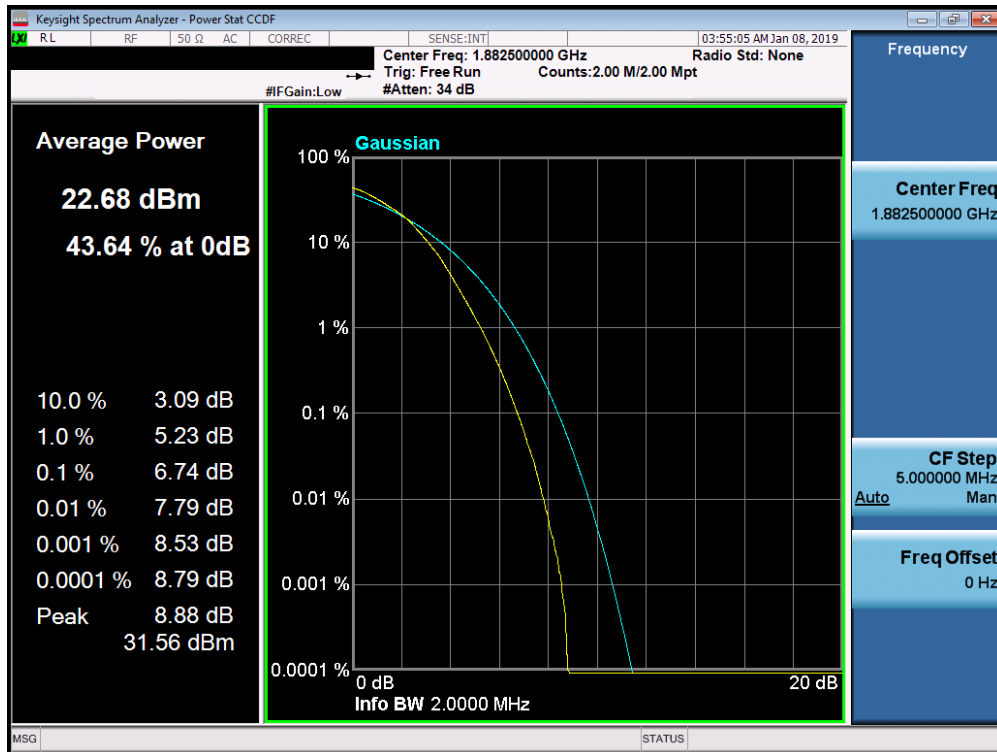


Plot 7-367. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

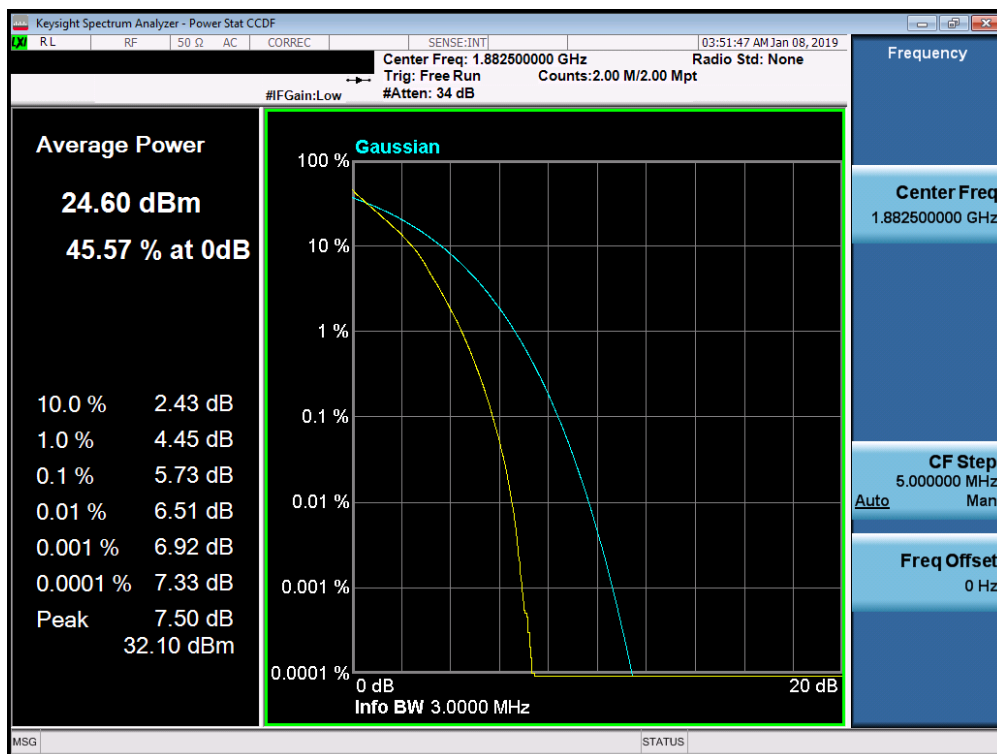


Plot 7-368. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 218 of 338

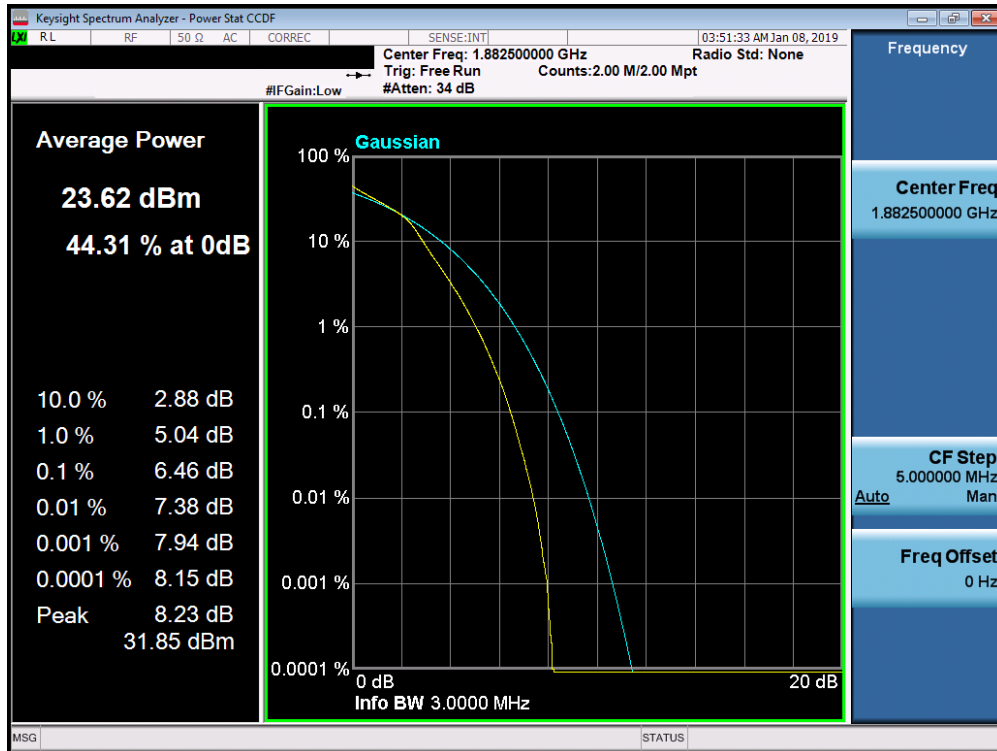


Plot 7-369. PAR Plot (Band 25 - 1.4MHz 64-QAM - Full RB Configuration)

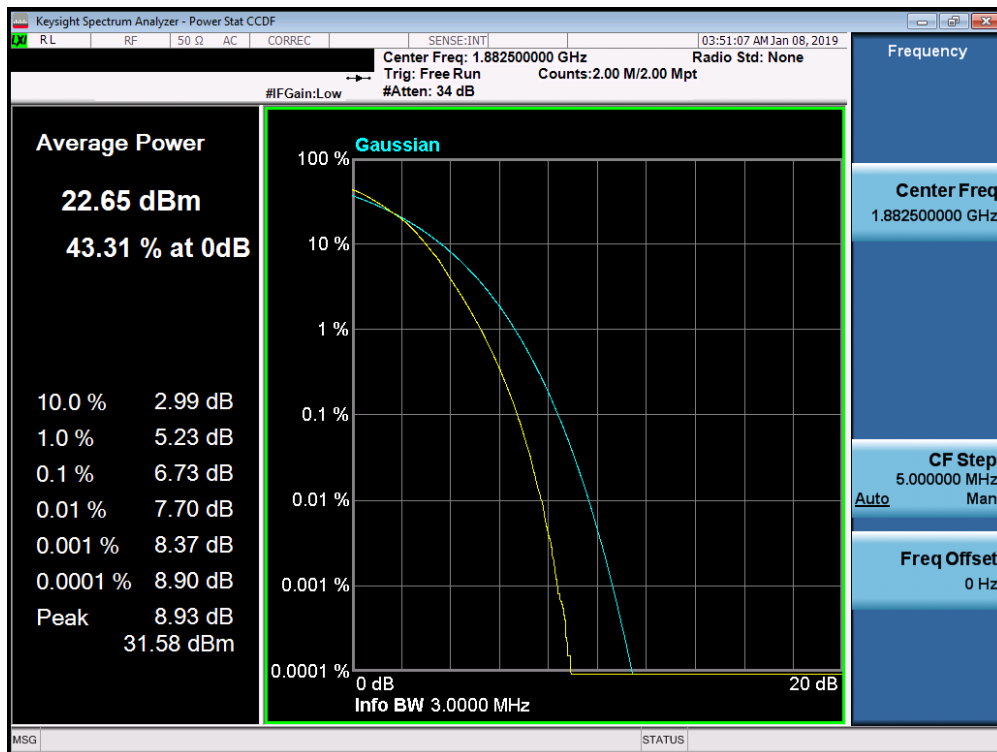


Plot 7-370. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 219 of 338

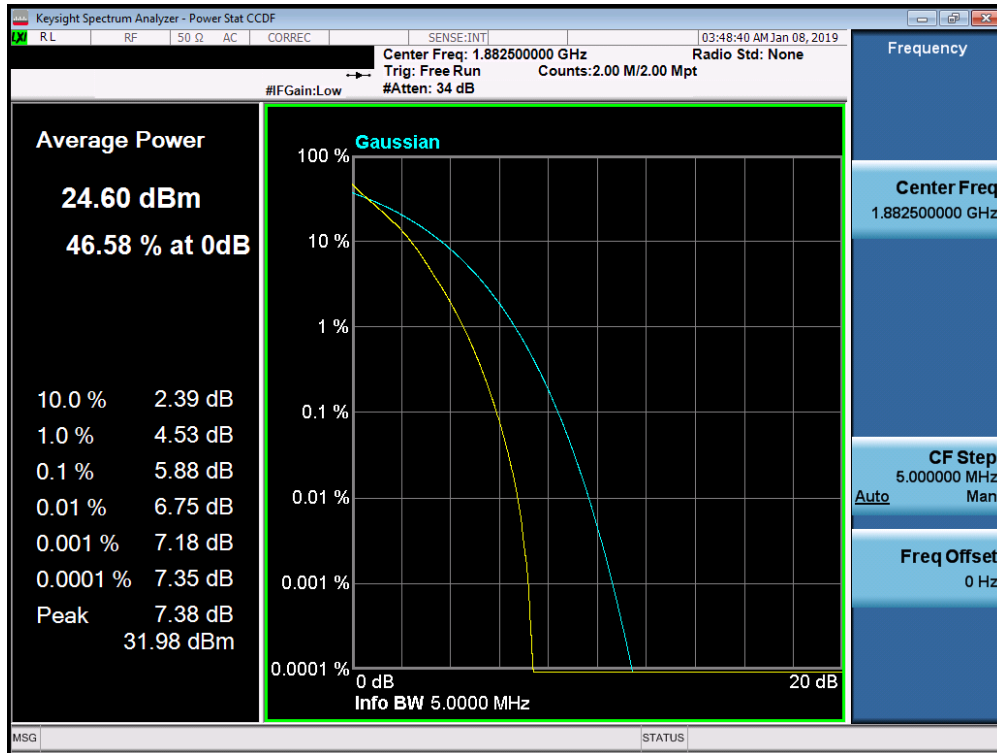


Plot 7-371. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

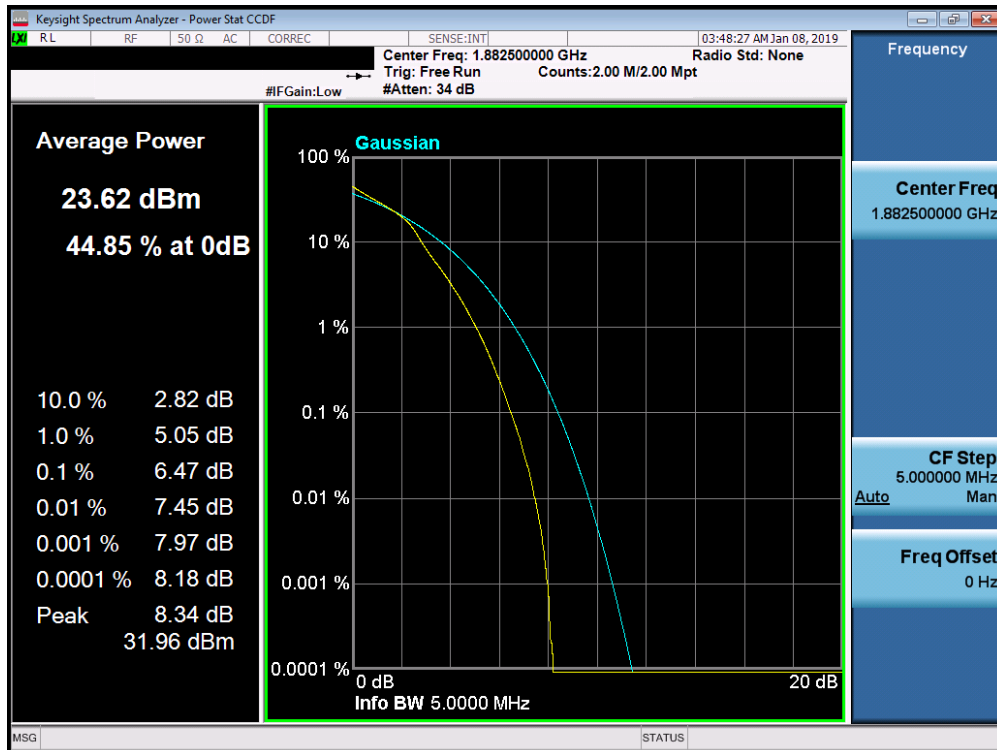


Plot 7-372. PAR Plot (Band 25 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 220 of 338

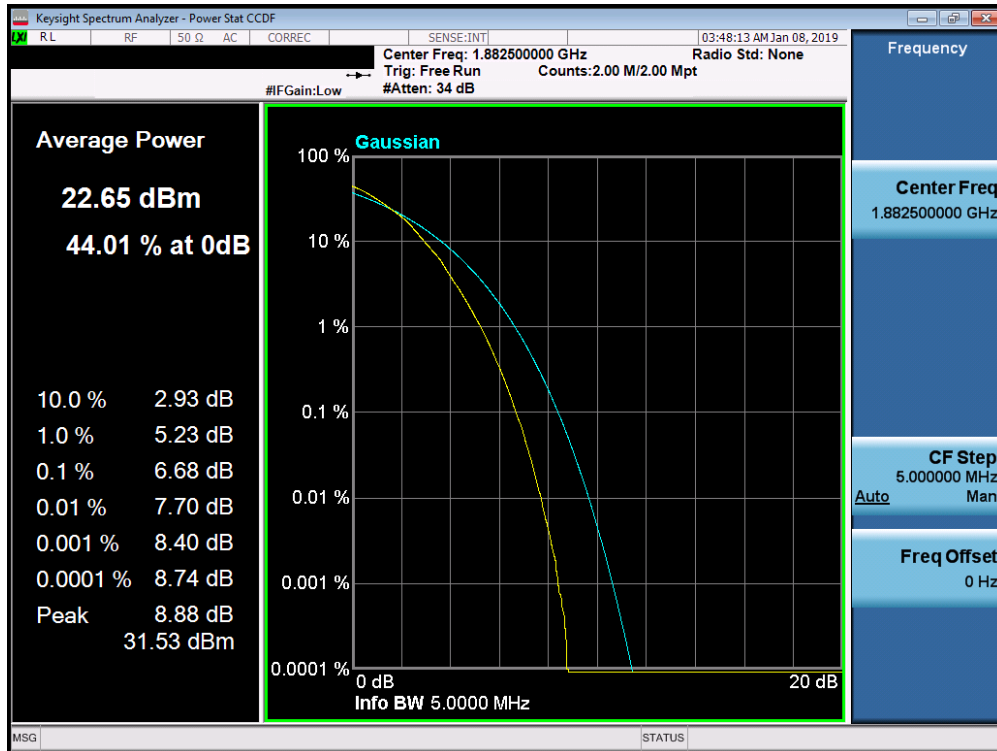


Plot 7-373. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

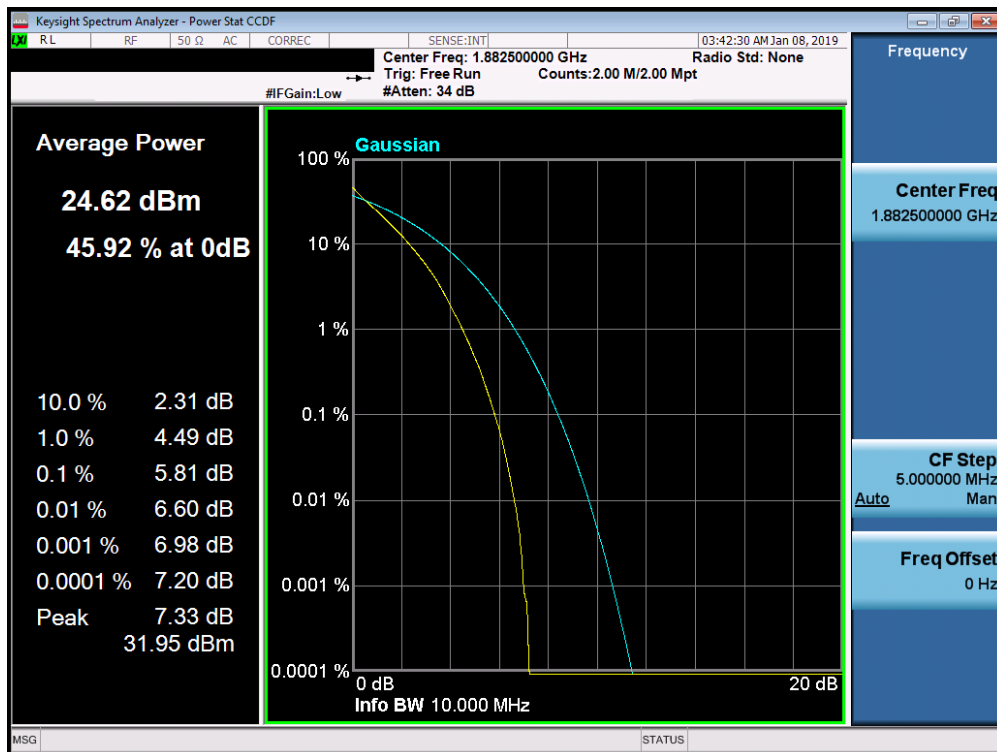


Plot 7-374. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 221 of 338

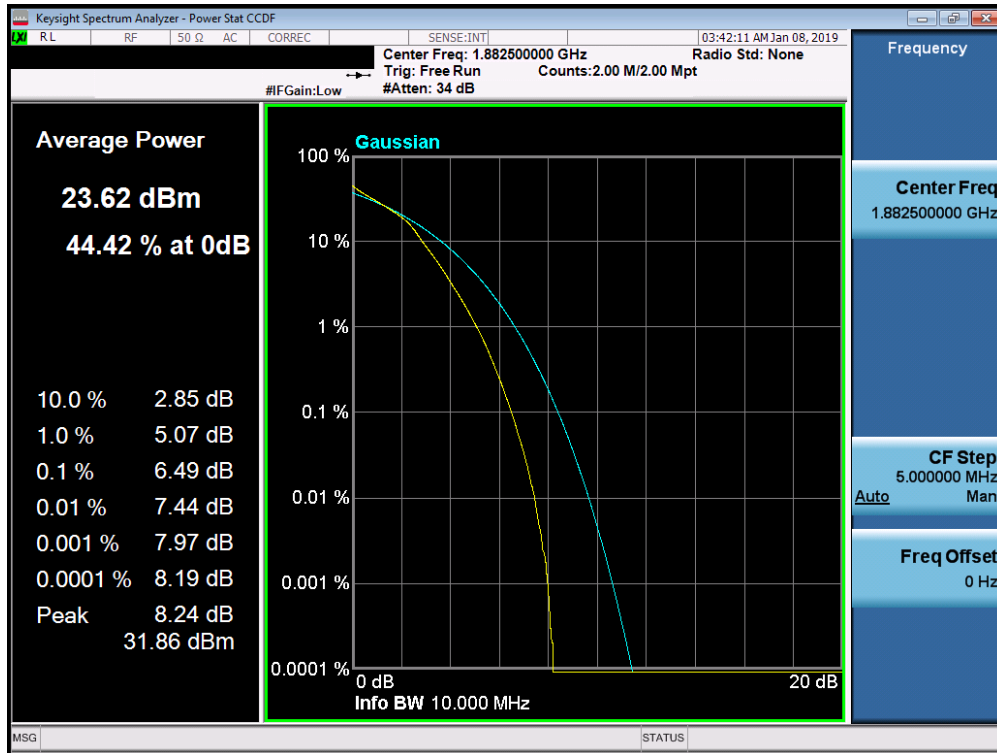


Plot 7-375. PAR Plot (Band 25 - 5.0MHz 64-QAM - Full RB Configuration)

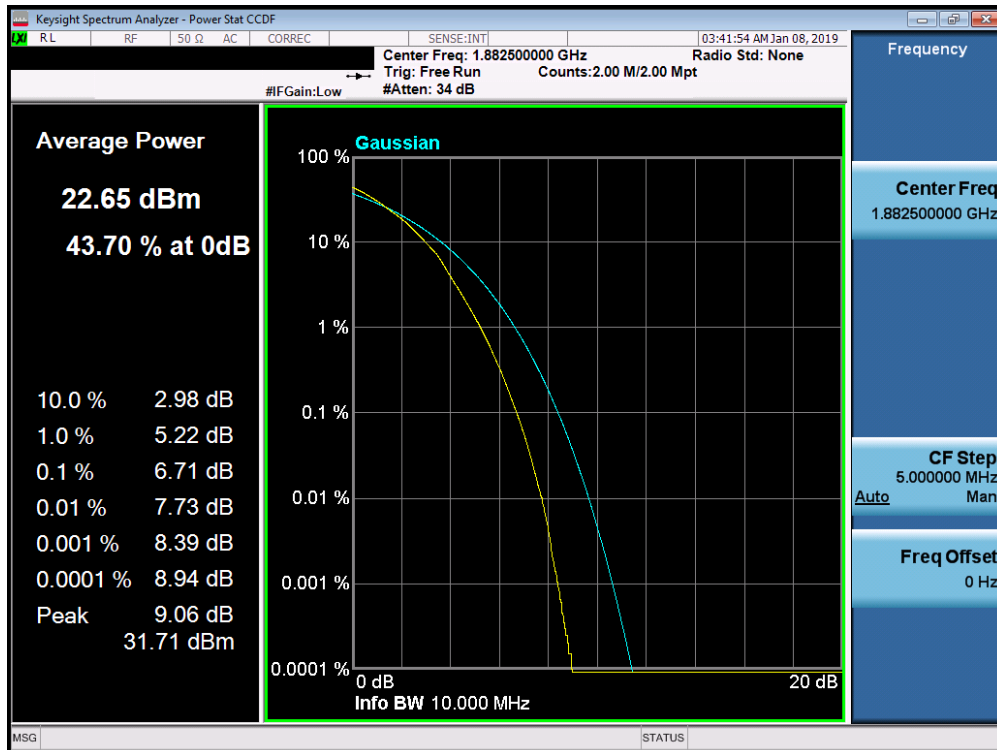


Plot 7-376. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 222 of 338

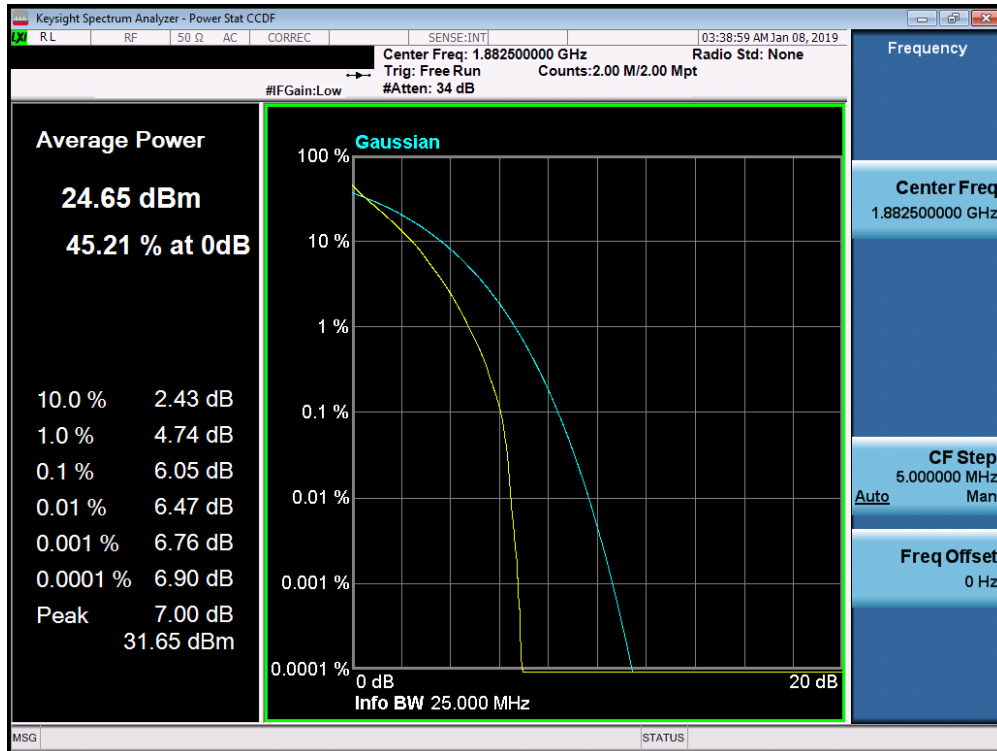


Plot 7-377. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

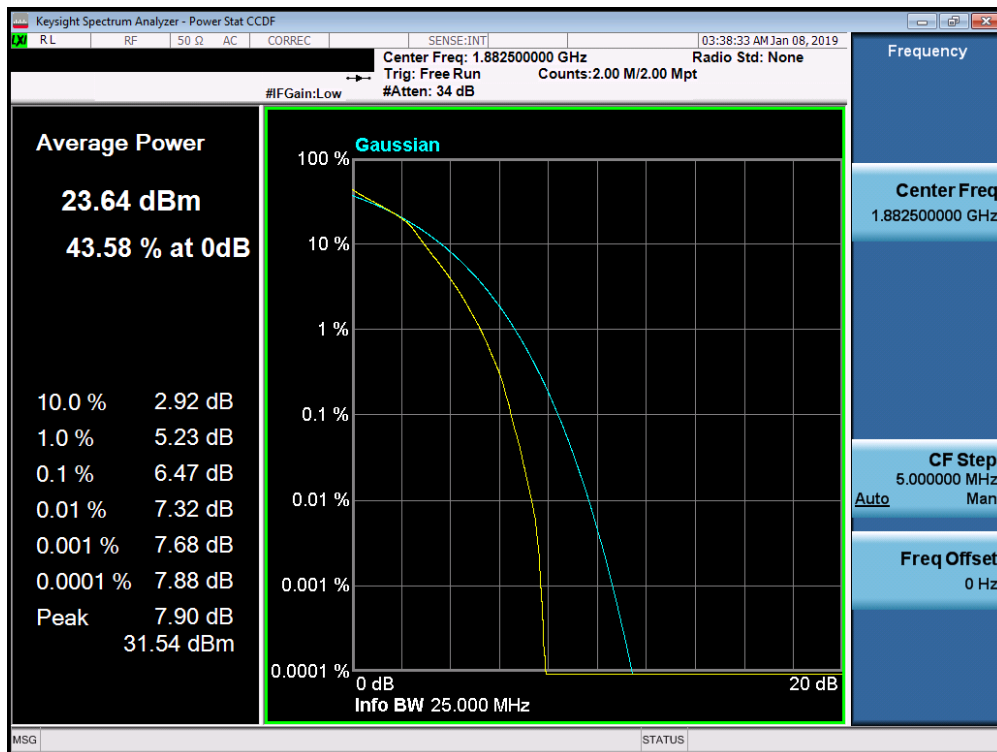


Plot 7-378. PAR Plot (Band 25 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 223 of 338

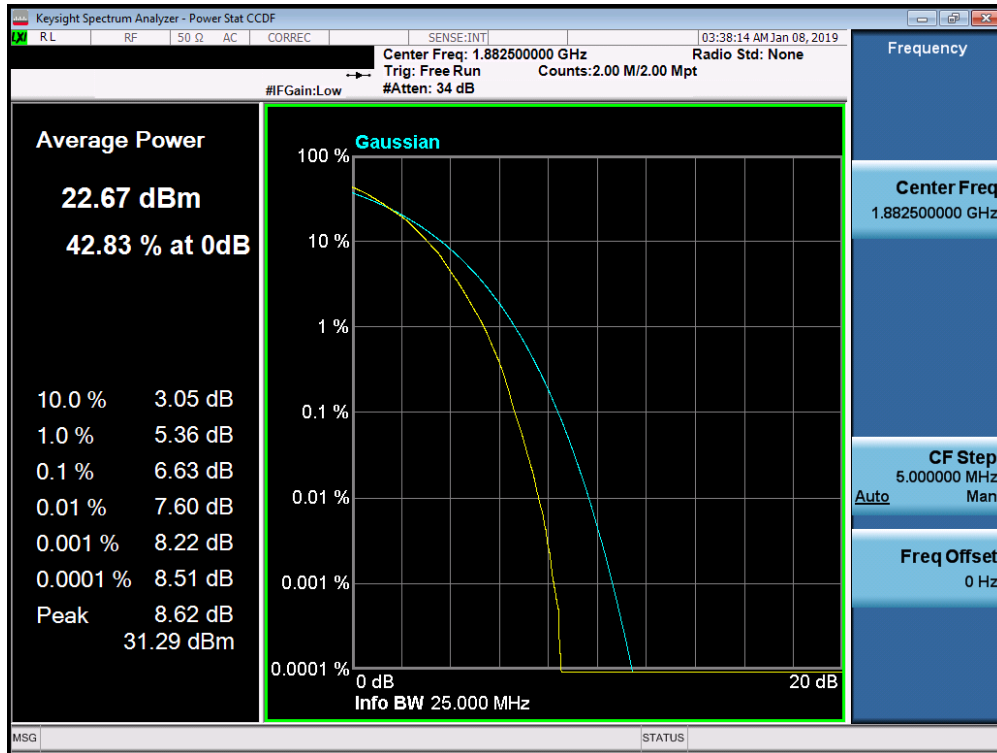


Plot 7-379. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

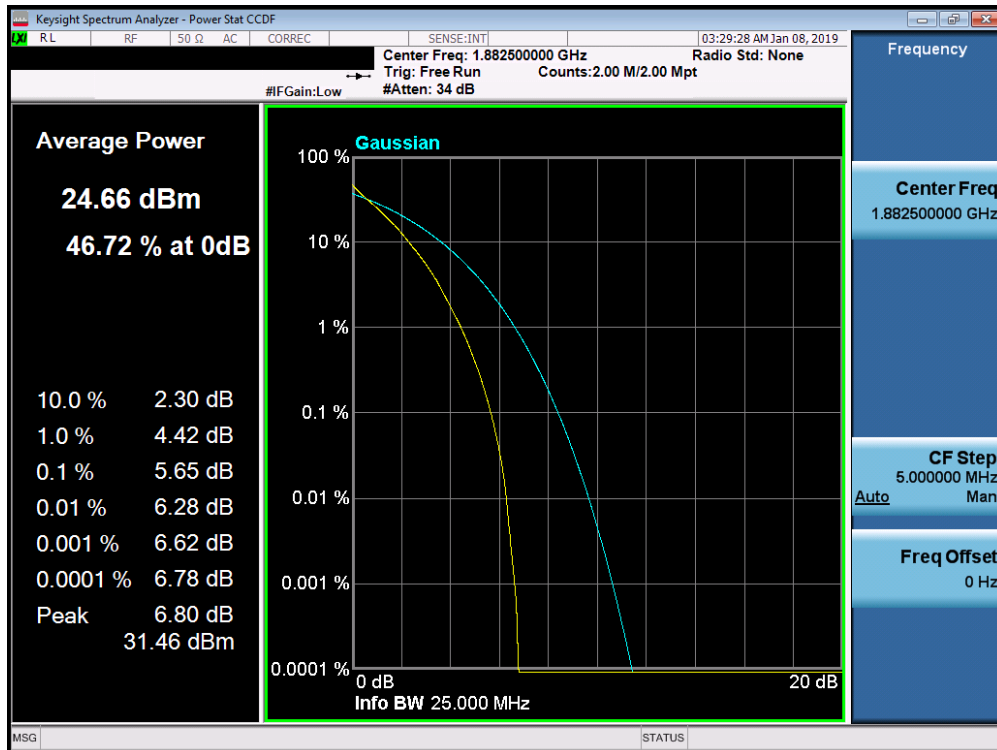


Plot 7-380. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 224 of 338

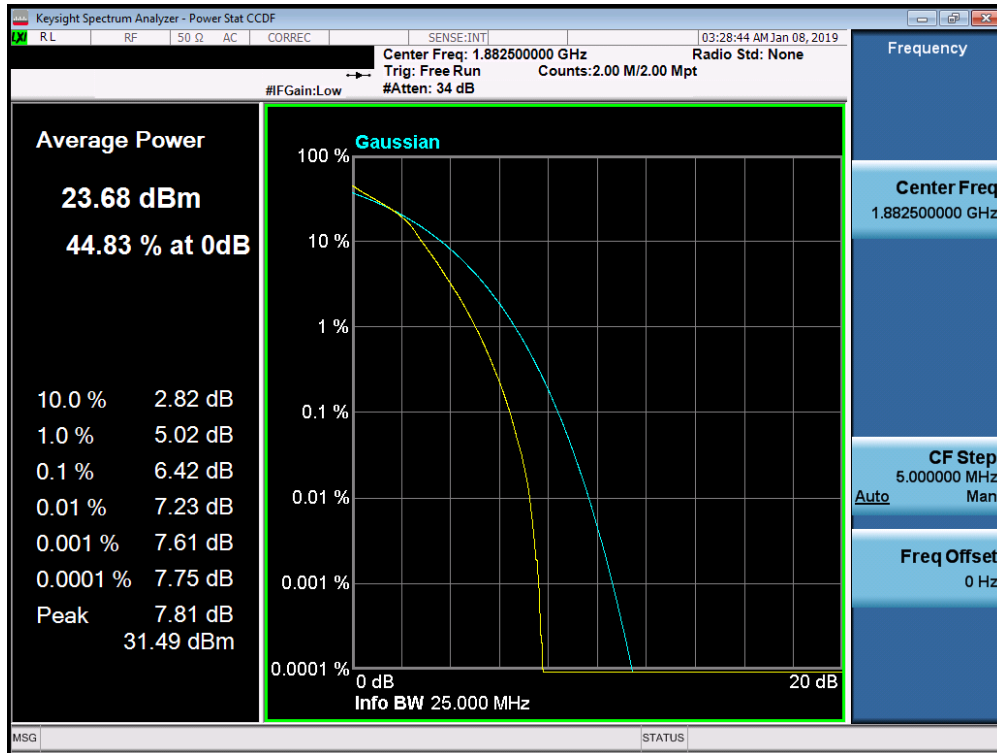


Plot 7-381. PAR Plot (Band 25 - 15.0MHz 64-QAM - Full RB Configuration)

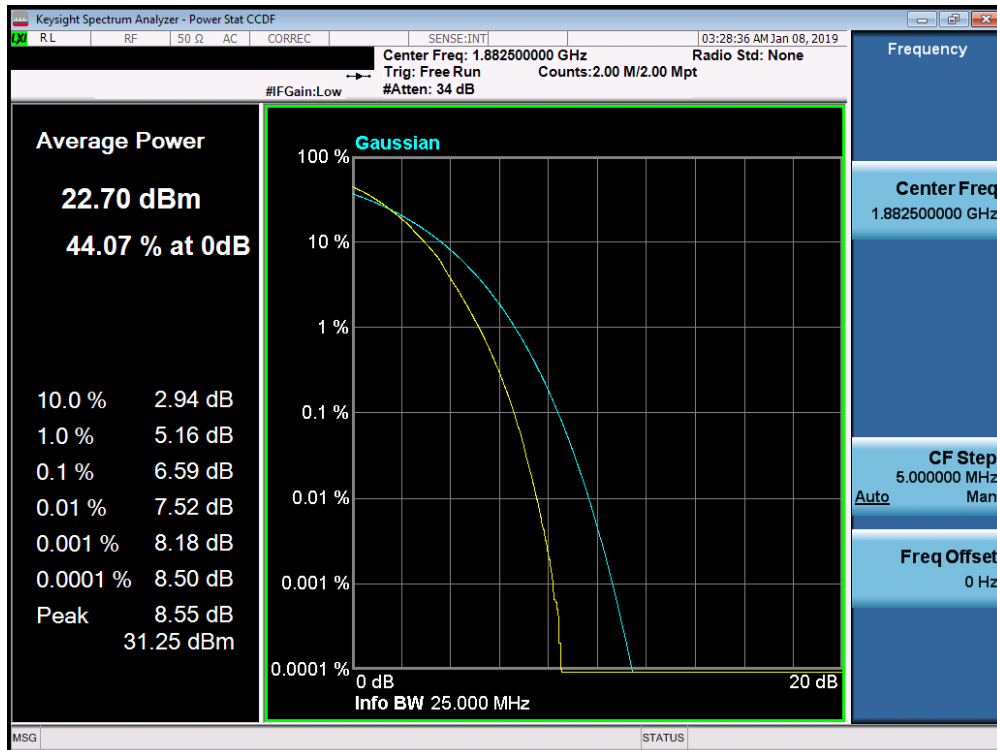


Plot 7-382. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 225 of 338



Plot 7-383. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)



Plot 7-384. PAR Plot (Band 25 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 226 of 338

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

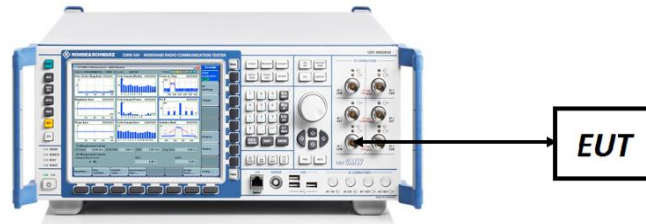


Figure 7-5. Conducted Power Measurement Setup

Test Notes

None

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 227 of 338

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	26.70	23.5	3.20
							16-QAM			≤ 1		26.48	22.5	3.98
							64-QAM			≤ 2		25.39	21.5	3.89
2				5	39675	2498.5	QPSK	1	9	0	0	26.70	26.5	0.20
							16-QAM			≤ 1		26.10	25.5	0.60
							64-QAM			≤ 2		25.35	24.5	0.85
3				10	39700	2501	QPSK	1	0	0	≤ 5	26.88	21.5	5.38
							16-QAM	1	0	≤ 1		26.46	20.5	5.96
							64-QAM	1	0	≤ 2		25.42	19.5	5.92
4				10	39700	2501	QPSK	20	0	0	≤ 2	25.65	23.5	2.15
							16-QAM	20	0	≤ 1		24.67	22.5	2.17
							64-QAM	20	0	≤ 2		23.70	21.5	2.20
5				10	39700	2501	QPSK	50	0	0	≤ 3	25.63	22.5	3.13
							16-QAM	50	0	≤ 1		24.61	21.5	3.11
							64-QAM	50	0	≤ 2		23.62	20.5	3.12
6				10	39700	2501	QPSK	25	20	0	≤ 1	25.64	24.5	1.14
							16-QAM	25	20	≤ 1		24.62	23.5	1.12
							64-QAM	25	20	≤ 2		23.63	22.5	1.13
7				10	39700	2501	QPSK	1	36	0	0	26.72	26.5	0.22
							16-QAM	1	36	≤ 1		26.42	25.5	0.92
							64-QAM	1	36	≤ 2		25.27	24.5	0.77
8				15	39725	2503.5	QPSK	1	0	0	≤ 5	26.81	21.5	5.31
							16-QAM	1	0	≤ 1		26.45	20.5	5.95
							64-QAM	1	0	≤ 2		25.31	19.5	5.81
9				15	39725	2503.5	QPSK	20	0	0	≤ 2	25.64	23.5	2.14
							16-QAM	20	0	≤ 1		24.64	22.5	2.14
							64-QAM	20	0	≤ 2		23.65	21.5	2.15
10				15	39725	2503.5	QPSK	75	0	0	≤ 4	25.60	21.5	4.10
							16-QAM	75	0	≤ 1		24.59	20.5	4.09
							64-QAM	75	0	≤ 2		23.60	19.5	4.10
11				15	39725	2503.5	QPSK	50	15	0	≤ 3	25.65	22.5	3.15
							16-QAM	50	15	≤ 1		24.59	21.5	3.09
							64-QAM	50	15	≤ 2		23.62	20.5	3.12
12				15	39725	2503.5	QPSK	1	60	0	0	26.63	26.5	0.13
							16-QAM	1	60	≤ 1		26.11	25.5	0.61
							64-QAM	1	60	≤ 2		25.07	24.5	0.57
13				20	39750	2506	QPSK	1	0	0	≤ 5	26.70	21.5	5.20
							16-QAM	1	0	≤ 1		26.27	20.5	5.77
							64-QAM	1	0	≤ 2		25.23	19.5	5.73
14				20	39750	2506	QPSK	20	0	0	≤ 2	25.67	23.5	2.17
							16-QAM	20	0	≤ 1		24.65	22.5	2.15
							64-QAM	20	0	≤ 2		23.71	21.5	2.21
15				20	39750	2506	QPSK	100	0	0	≤ 4	25.46	21.5	3.96
							16-QAM	100	0	≤ 1		24.47	20.5	3.97
							64-QAM	100	0	≤ 2		23.51	19.5	4.01
16				20	39750	2506	QPSK	75	24	0	≤ 3	25.49	22.5	2.99
							16-QAM	75	24	≤ 1		24.50	21.5	3.00
							64-QAM	75	24	≤ 2		23.50	20.5	3.00
17				20	39750	2506	QPSK	1	77	0	0	26.51	26.5	0.01
							16-QAM	1	77	≤ 1		26.12	25.5	0.62
							64-QAM	1	77	≤ 2		24.98	24.5	0.48
18	01	311	490	5	39675	2498.5	QPSK	1	0	0	≤ 3	26.75	23.5	3.25
			16-QAM				≤ 1			26.4		22.5	3.90	
			64-QAM				≤ 2			25.42		21.5	3.92	
19	01	001	01	5	39675	2498.5	QPSK	1	0	0	0	26.84	26.5	0.34
			16-QAM				≤ 1			26.42		25.5	0.92	
			64-QAM				≤ 2			25.51		24.5	1.01	

Table 7-7. A-MPR Conducted Power Measurements

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 228 of 338

7.7 Uplink Carrier Aggregation

§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 $55 + \log_{10}(P_{\text{Watts}})$.

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.

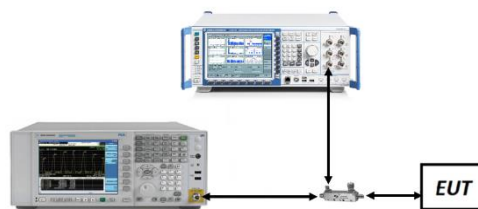


Figure 7-6. Test Instrument & Measurement Setup

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 229 of 338	

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.

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 230 of 338

Port A

Power State	PCC							SCC							Power ULCA Tx.Power (dBm)
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	
Max	LTE B7	10	20800	2505	QPSK	1	49	LTE B7	20	20944	2519.4	QPSK	1	0	24.90
Max	LTE B7	15	20825	2507.5	QPSK	1	74	LTE B7	10	20945	2519.5	QPSK	1	0	25.00
Max	LTE B7	15	20825	2507.5	QPSK	1	74	LTE B7	15	20975	2522.5	QPSK	1	0	25.00
Max	LTE B7	15	20825	2507.5	QPSK	1	74	LTE B7	20	20996	2524.6	QPSK	1	0	25.00
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	10	20994	2524.4	QPSK	1	0	25.00
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	15	21021	2527.1	QPSK	1	0	25.00
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	25.00
Max	LTE B7	10	21100	2535	QPSK	1	49	LTE B7	20	21244	2549.4	QPSK	1	0	25.00
Max	LTE B7	15	21100	2535	QPSK	1	74	LTE B7	10	21220	2547	QPSK	1	0	24.70
Max	LTE B7	15	21100	2535	QPSK	1	74	LTE B7	15	21250	2550	QPSK	1	0	25.00
Max	LTE B7	15	21100	2535	QPSK	1	74	LTE B7	20	21271	2552.1	QPSK	1	0	24.95
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	10	21244	2549.4	QPSK	1	0	25.00
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	15	21271	2552.1	QPSK	1	0	24.95
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	25.00
Max	LTE B7	10	21400	2565	QPSK	1	0	LTE B7	20	21256	2550.6	QPSK	1	99	24.90
Max	LTE B7	15	21375	2562.5	QPSK	1	0	LTE B7	10	21255	2550.5	QPSK	1	49	24.70
Max	LTE B7	15	21375	2562.5	QPSK	1	0	LTE B7	15	21225	2547.5	QPSK	1	74	24.60
Max	LTE B7	15	21375	2562.5	QPSK	1	0	LTE B7	20	21204	2545.4	QPSK	1	99	24.80
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	10	21206	2545.6	QPSK	1	49	24.70
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	15	21179	2542.9	QPSK	1	74	24.80
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	24.90

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

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 231 of 338

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	0	LTE B7	20	21048	2529.8	QPSK	1	0	20.60
Max	LTE B7	20	20850	2510	16-QAM	1	0	LTE B7	20	21048	2529.8	16-QAM	1	0	20.89
Max	LTE B7	20	20850	2510	64-QAM	1	0	LTE B7	20	21048	2529.8	64-QAM	1	0	20.97
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	99	20.34
Max	LTE B7	20	20850	2510	QPSK	1	0	LTE B7	20	21048	2529.8	QPSK	1	99	16.38
Max	LTE B7	20	20850	2510	QPSK	1	50	LTE B7	20	21048	2529.8	QPSK	1	50	20.57
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	25.00
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	23.15
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	22.18
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	22.15

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

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 232 of 338

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	5	39675	2498.5	QPSK	1	24	LTE B41	20	39792	2510.2	QPSK	1	0	24.54
Max	LTE B41	10	39700	2501	QPSK	1	49	LTE B41	15	39820	2513	QPSK	1	0	24.76
Max	LTE B41	10	39700	2501	QPSK	1	49	LTE B41	20	39844	2515.4	QPSK	1	0	24.75
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	10	39845	2515.5	QPSK	1	0	24.59
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	15	39875	2518.5	QPSK	1	0	24.62
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	20	39896	2520.6	QPSK	1	0	24.67
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	5	39867	2517.7	QPSK	1	0	24.72
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	10	39894	2520.4	QPSK	1	0	24.71
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	15	39921	2523.1	QPSK	1	0	24.68
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.78
Max	LTE B41	5	40620	2593	QPSK	1	24	LTE B41	20	40737	2604.7	QPSK	1	0	24.89
Max	LTE B41	10	40620	2593	QPSK	1	49	LTE B41	15	40740	2605	QPSK	1	0	24.84
Max	LTE B41	10	40620	2593	QPSK	1	49	LTE B41	20	40764	2607.4	QPSK	1	0	24.88
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	10	40740	2605	QPSK	1	0	24.82
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	15	40770	2608	QPSK	1	0	24.78
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	20	40791	2610.1	QPSK	1	0	24.91
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	5	40737	2604.7	QPSK	1	0	24.80
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	10	40764	2607.4	QPSK	1	0	24.88
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	15	40791	2610.1	QPSK	1	0	24.93
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.91
Max	LTE B41	5	41565	2687.5	QPSK	1	0	LTE B41	20	41448	2675.8	QPSK	1	99	24.64
Max	LTE B41	10	41540	2685	QPSK	1	0	LTE B41	15	41420	2673	QPSK	1	74	24.59
Max	LTE B41	10	41540	2685	QPSK	1	0	LTE B41	20	41396	2670.6	QPSK	1	99	24.57
Max	LTE B41	15	41515	2682.5	QPSK	1	0	LTE B41	10	41395	2670.5	QPSK	1	49	24.59
Max	LTE B41	15	41515	2682.5	QPSK	1	0	LTE B41	15	41365	2667.5	QPSK	1	74	24.60
Max	LTE B41	15	41515	2682.5	QPSK	1	0	LTE B41	20	41344	2665.4	QPSK	1	99	24.62
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	5	41373	2668.3	QPSK	1	24	24.60
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	10	41346	2665.6	QPSK	1	49	24.55
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	15	41319	2662.9	QPSK	1	74	24.68
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.75

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

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 233 of 338

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	0	LTE B41	20	39948	2525.8	QPSK	1	0	20.21
Max	LTE B41	20	39750	2506	16-QAM	1	0	LTE B7	20	39948	2525.8	16-QAM	1	0	20.35
Max	LTE B41	20	39750	2506	64-QAM	1	0	LTE B7	20	39948	2525.8	64-QAM	1	0	20.27
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	99	20.21
Max	LTE B41	20	39750	2506	QPSK	1	0	LTE B41	20	39948	2525.8	QPSK	1	99	16.22
Max	LTE B41	20	39750	2506	QPSK	1	50	LTE B41	20	39948	2525.8	QPSK	1	50	20.15
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.79
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	22.85
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	21.84
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	21.80

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

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 234 of 338

Port B

Power State	PCC							SCC							Power ULCA Tx.Power (dBm)
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	
Max	LTE B7	10	20800	2505	QPSK	1	49	LTE B7	20	20944	2519.4	QPSK	1	0	22.44
Max	LTE B7	15	20825	2507.5	QPSK	1	74	LTE B7	10	20945	2519.5	QPSK	1	0	22.35
Max	LTE B7	15	20825	2507.5	QPSK	1	74	LTE B7	15	20975	2522.5	QPSK	1	0	22.33
Max	LTE B7	15	20825	2507.5	QPSK	1	74	LTE B7	20	20996	2524.6	QPSK	1	0	22.50
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	10	20994	2524.4	QPSK	1	0	22.40
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	15	21021	2527.1	QPSK	1	0	22.44
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	22.54
Max	LTE B7	10	21100	2535	QPSK	1	49	LTE B7	20	21244	2549.4	QPSK	1	0	22.65
Max	LTE B7	15	21100	2535	QPSK	1	74	LTE B7	10	21220	2547	QPSK	1	0	22.37
Max	LTE B7	15	21100	2535	QPSK	1	74	LTE B7	15	21250	2550	QPSK	1	0	22.39
Max	LTE B7	15	21100	2535	QPSK	1	74	LTE B7	20	21271	2552.1	QPSK	1	0	22.51
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	10	21244	2549.4	QPSK	1	0	22.50
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	15	21271	2552.1	QPSK	1	0	22.48
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	22.62
Max	LTE B7	10	21400	2565	QPSK	1	0	LTE B7	20	21256	2550.6	QPSK	1	99	22.41
Max	LTE B7	15	21375	2562.5	QPSK	1	0	LTE B7	10	21255	2550.5	QPSK	1	49	22.35
Max	LTE B7	15	21375	2562.5	QPSK	1	0	LTE B7	15	21225	2547.5	QPSK	1	74	22.27
Max	LTE B7	15	21375	2562.5	QPSK	1	0	LTE B7	20	21204	2545.4	QPSK	1	99	22.34
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	10	21206	2545.6	QPSK	1	49	22.40
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	15	21179	2542.9	QPSK	1	74	22.37
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	22.49

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

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 235 of 338

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	0	LTE B7	20	21048	2529.8	QPSK	1	0	18.02
Max	LTE B7	20	20850	2510	16-QAM	1	0	LTE B7	20	21048	2529.8	16-QAM	1	0	18.45
Max	LTE B7	20	20850	2510	64-QAM	1	0	LTE B7	20	21048	2529.8	64-QAM	1	0	18.34
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	99	18.12
Max	LTE B7	20	20850	2510	QPSK	1	0	LTE B7	20	21048	2529.8	QPSK	1	99	14.26
Max	LTE B7	20	20850	2510	QPSK	1	50	LTE B7	20	21048	2529.8	QPSK	1	50	17.97
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	22.76
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	20.68
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	19.71
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	19.67

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

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 236 of 338

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	5	39675	2498.5	QPSK	1	24	LTE B41	20	39792	2510.2	QPSK	1	0	22.41
Max	LTE B41	10	39700	2501	QPSK	1	49	LTE B41	15	39820	2513	QPSK	1	0	22.51
Max	LTE B41	10	39700	2501	QPSK	1	49	LTE B41	20	39844	2515.4	QPSK	1	0	22.52
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	10	39845	2515.5	QPSK	1	0	22.42
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	15	39875	2518.5	QPSK	1	0	22.45
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	20	39896	2520.6	QPSK	1	0	22.49
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	5	39867	2517.7	QPSK	1	0	22.48
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	10	39894	2520.4	QPSK	1	0	22.52
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	15	39921	2523.1	QPSK	1	0	22.50
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	22.53
Max	LTE B41	5	40620	2593	QPSK	1	24	LTE B41	20	40737	2604.7	QPSK	1	0	22.45
Max	LTE B41	10	40620	2593	QPSK	1	49	LTE B41	15	40740	2605	QPSK	1	0	22.36
Max	LTE B41	10	40620	2593	QPSK	1	49	LTE B41	20	40764	2607.4	QPSK	1	0	22.40
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	10	40740	2605	QPSK	1	0	22.33
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	15	40770	2608	QPSK	1	0	22.32
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	20	40791	2610.1	QPSK	1	0	22.33
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	5	40737	2604.7	QPSK	1	0	22.42
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	10	40764	2607.4	QPSK	1	0	22.43
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	15	40791	2610.1	QPSK	1	0	22.54
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	22.51
Max	LTE B41	5	41565	2687.5	QPSK	1	0	LTE B41	20	41448	2675.8	QPSK	1	99	22.32
Max	LTE B41	10	41540	2685	QPSK	1	0	LTE B41	15	41420	2673	QPSK	1	74	22.20
Max	LTE B41	10	41540	2685	QPSK	1	0	LTE B41	20	41396	2670.6	QPSK	1	99	22.26
Max	LTE B41	15	41515	2682.5	QPSK	1	0	LTE B41	10	41395	2670.5	QPSK	1	49	22.35
Max	LTE B41	15	41515	2682.5	QPSK	1	0	LTE B41	15	41365	2667.5	QPSK	1	74	22.25
Max	LTE B41	15	41515	2682.5	QPSK	1	0	LTE B41	20	41344	2665.4	QPSK	1	99	22.23
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	5	41373	2668.3	QPSK	1	24	21.75
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	10	41346	2665.6	QPSK	1	49	22.27
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	15	41319	2662.9	QPSK	1	74	22.33
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	22.30

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

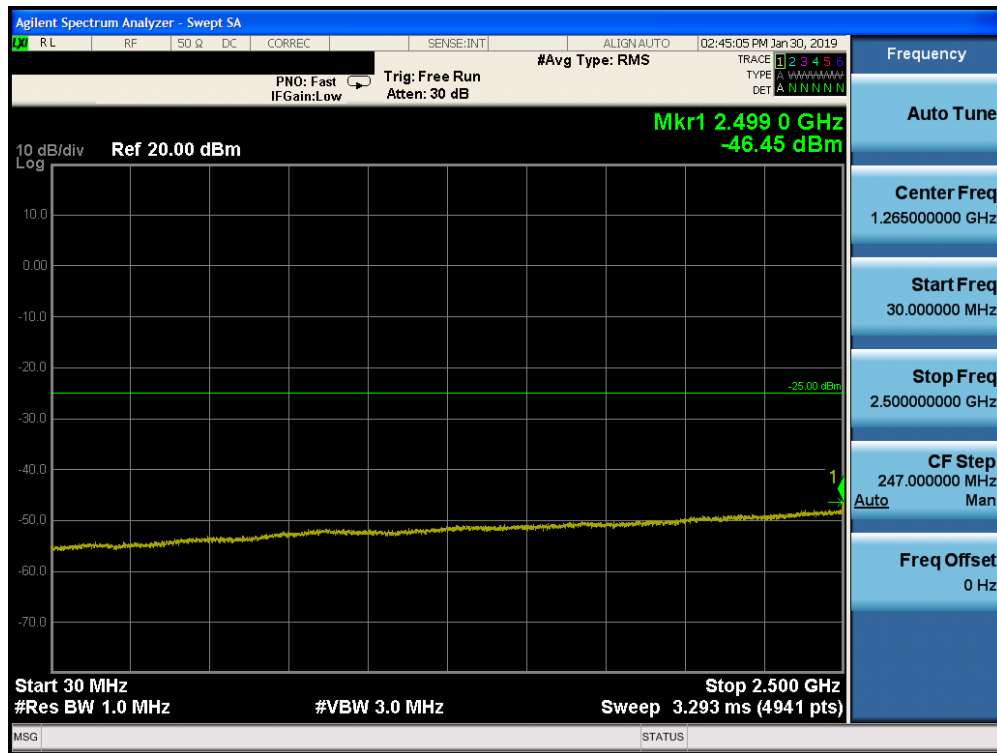
FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 237 of 338

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	0	LTE B41	20	39948	2525.8	QPSK	1	0	17.70
Max	LTE B7	20	39750	2506	16-QAM	1	0	LTE B7	20	39948	2525.8	16-QAM	1	0	17.82
Max	LTE B7	20	39750	2506	64-QAM	1	0	LTE B7	20	39948	2525.8	64-QAM	1	0	17.77
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	99	17.95
Max	LTE B41	20	39750	2506	QPSK	1	0	LTE B41	20	39948	2525.8	QPSK	1	99	14.05
Max	LTE B41	20	39750	2506	QPSK	1	50	LTE B41	20	39948	2525.8	QPSK	1	50	17.65
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	22.57
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	20.66
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	19.70
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	19.67

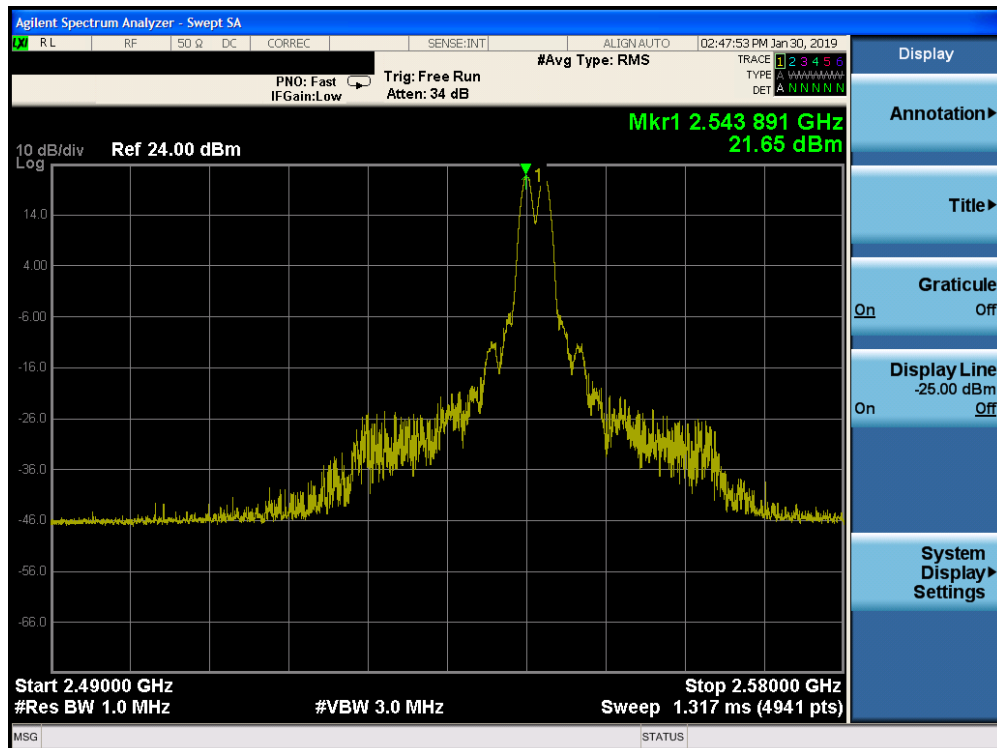
Table 7-15. Conducted Powers (B41 with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 238 of 338

Band 7

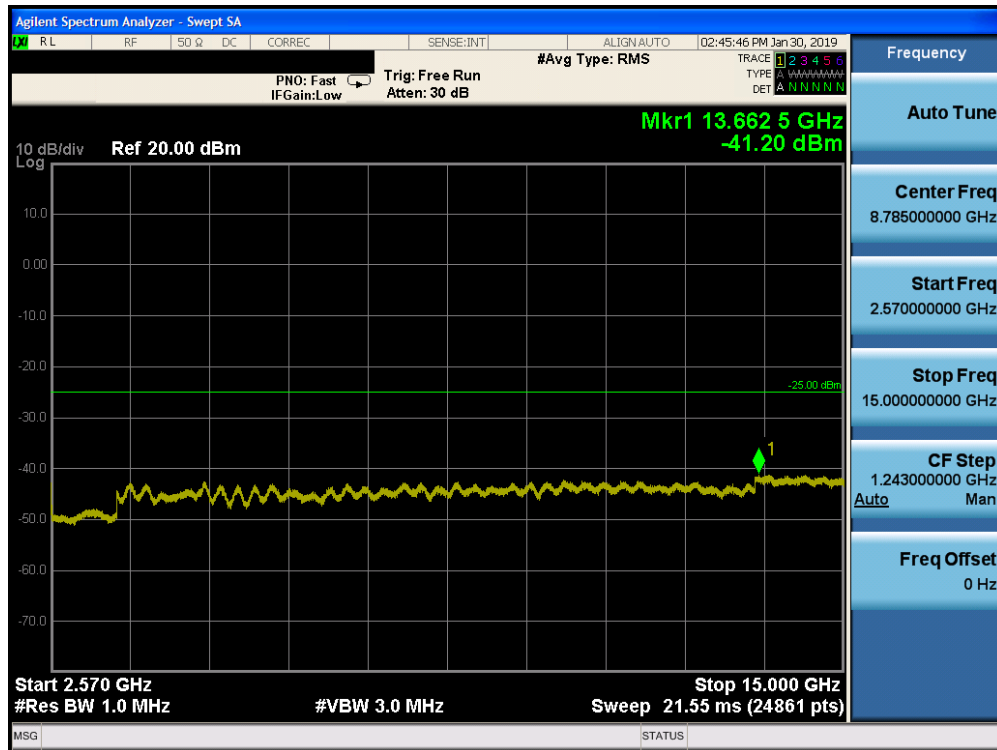


Plot 7-385. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

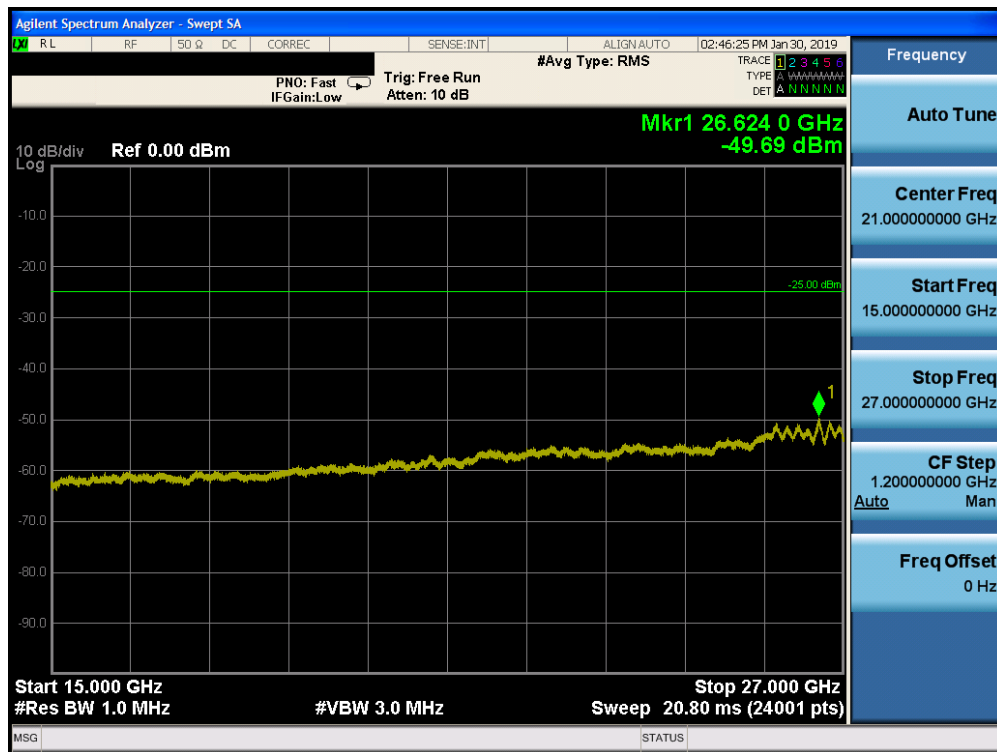


Plot 7-386. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 239 of 338



Plot 7-387. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-388. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2123	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 240 of 338



Table 7-389. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

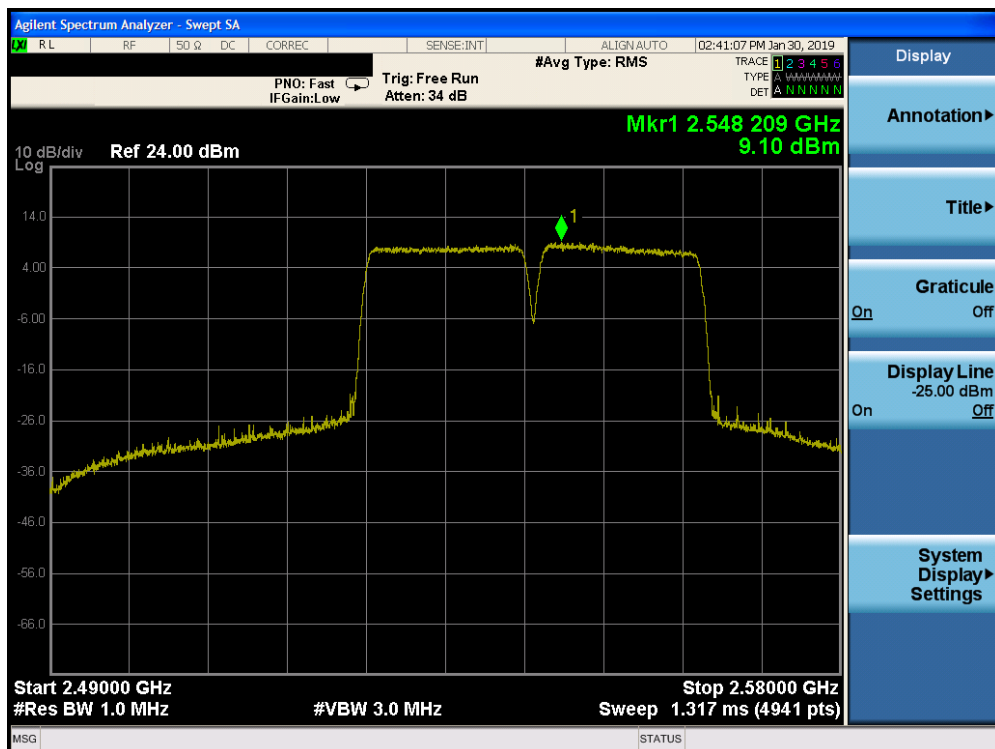
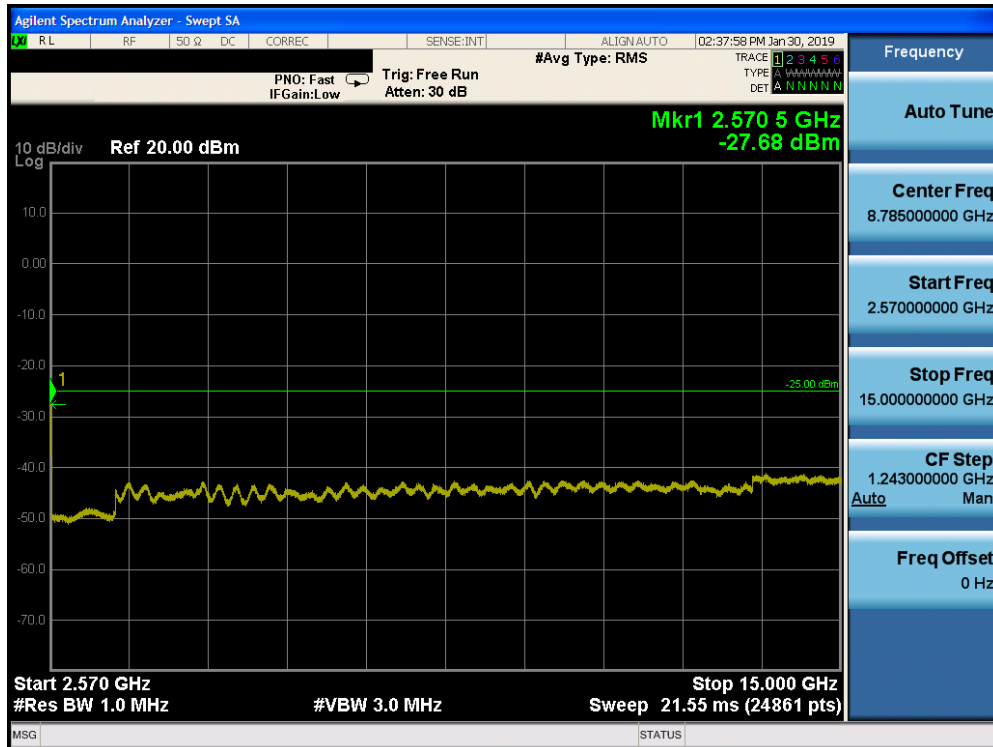


Table 7-390. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 241 of 338



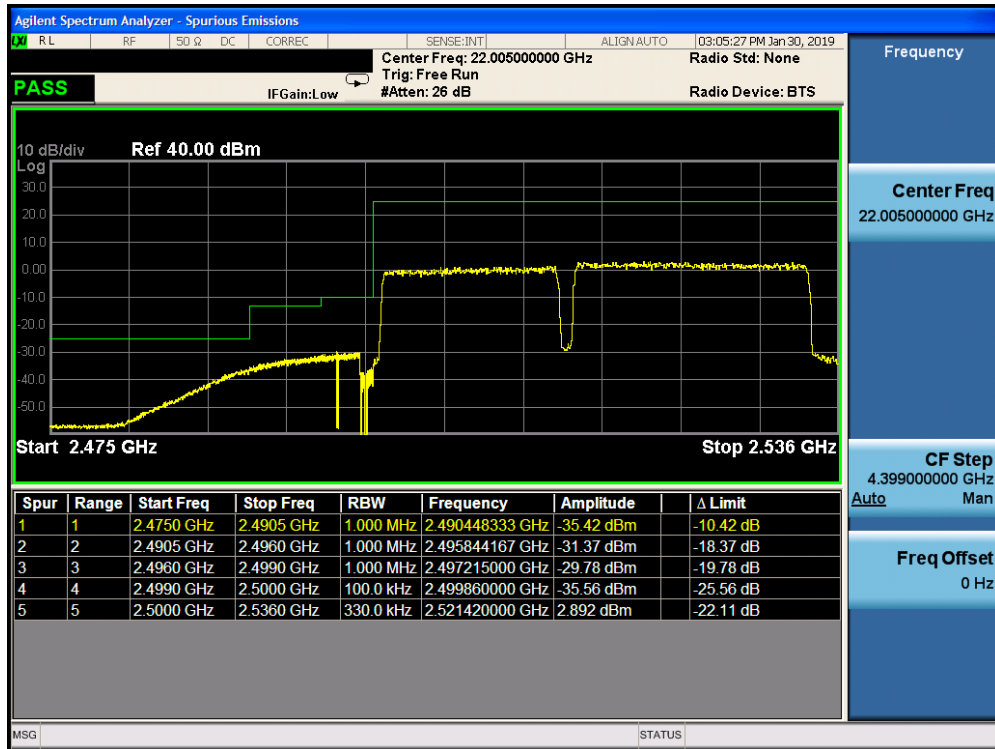


Table 7-393. Lower ACP Plot (Band 7 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)



Table 7-394. Upper ACP Plot (Band 7 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	
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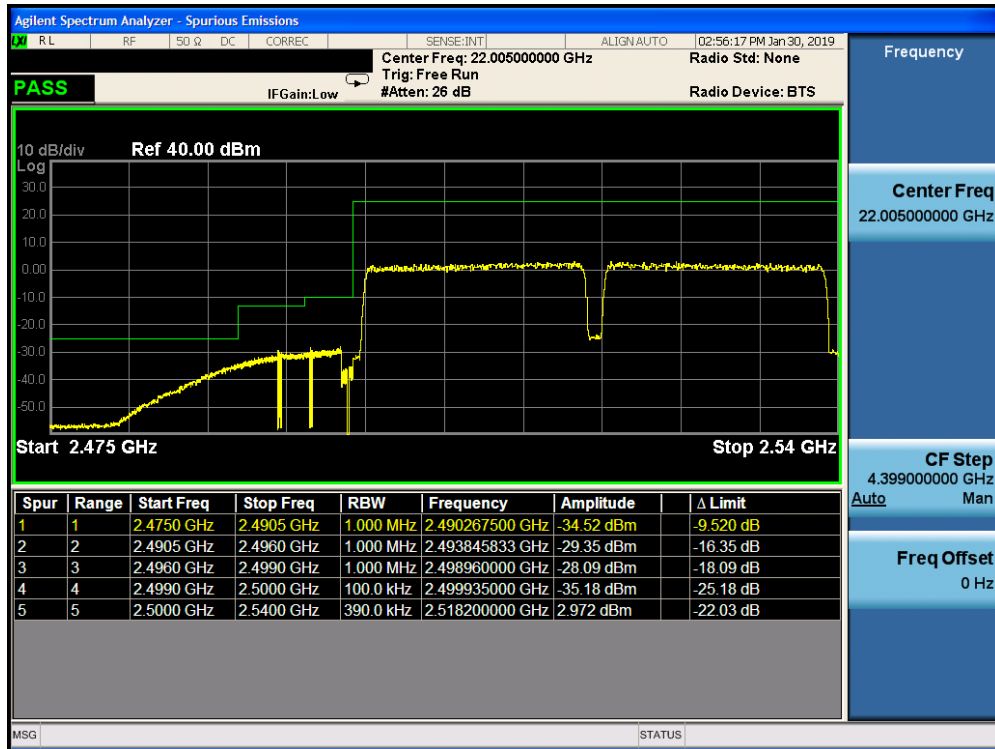


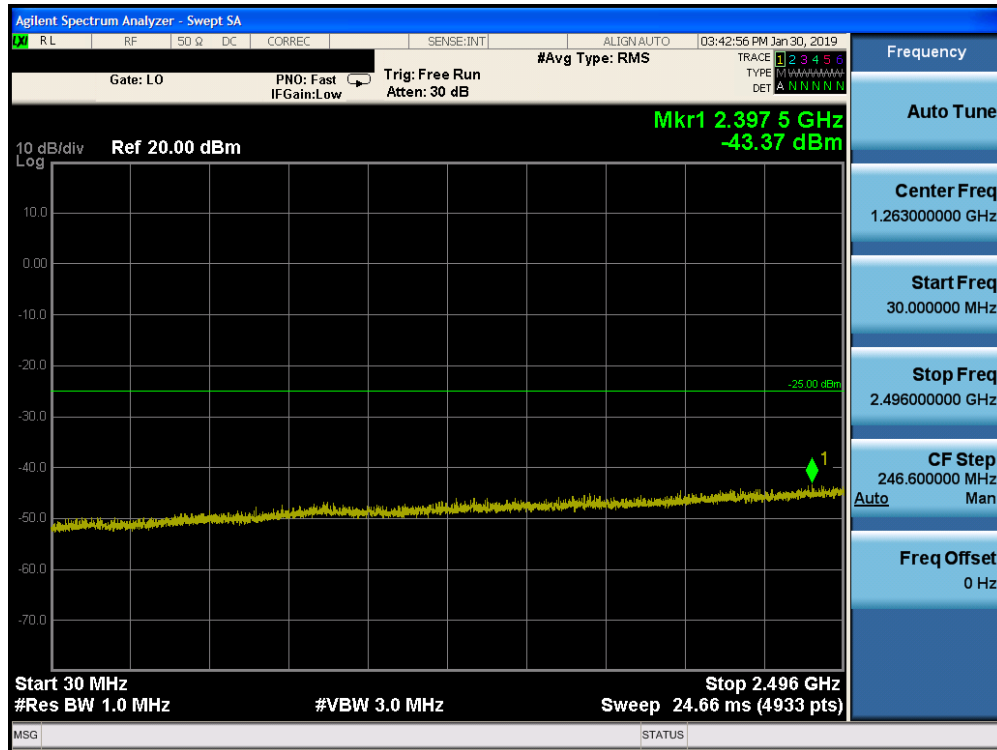
Table 7-395. Lower ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)



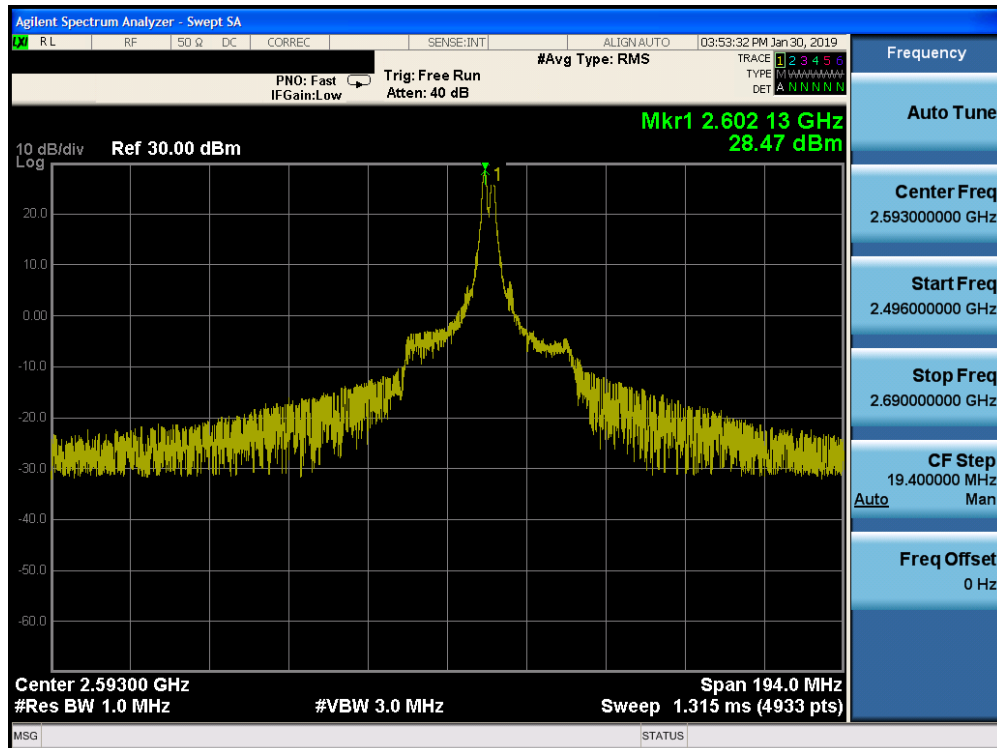
Table 7-396. Upper ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 244 of 338

Band 41

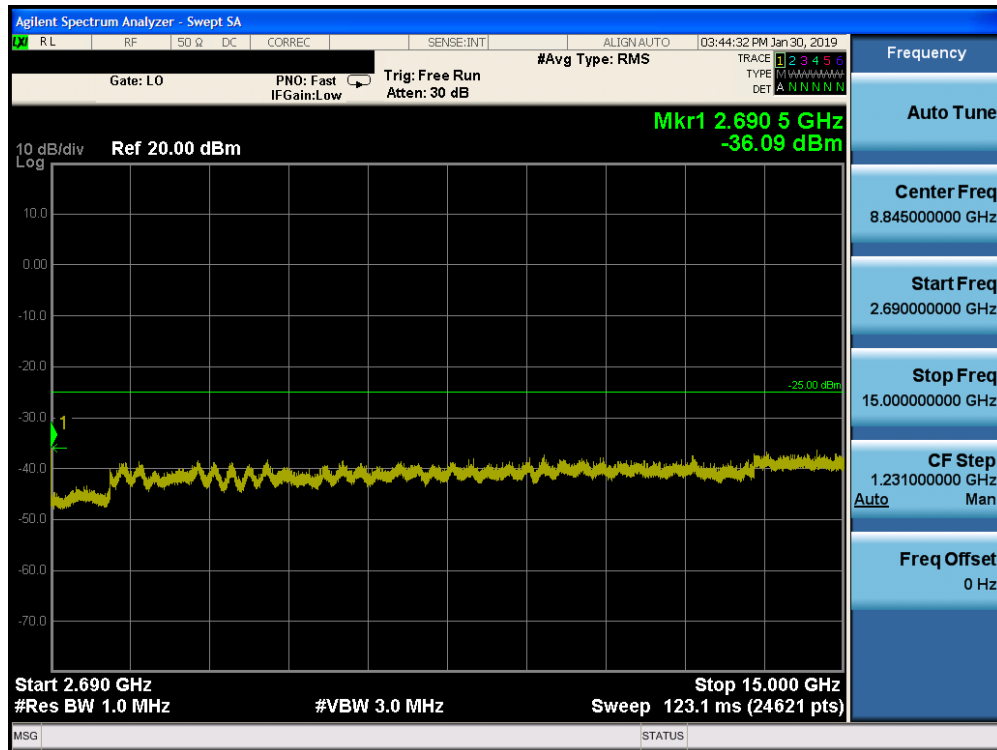


Plot 7-397. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

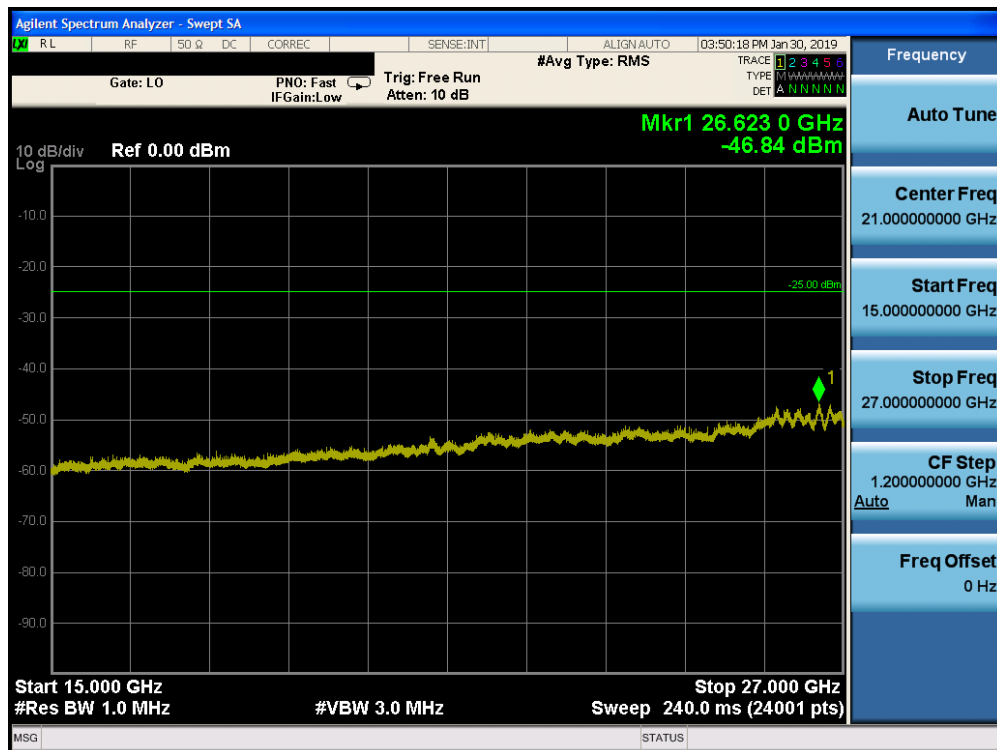


Plot 7-398. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-399. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-400. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 246 of 338

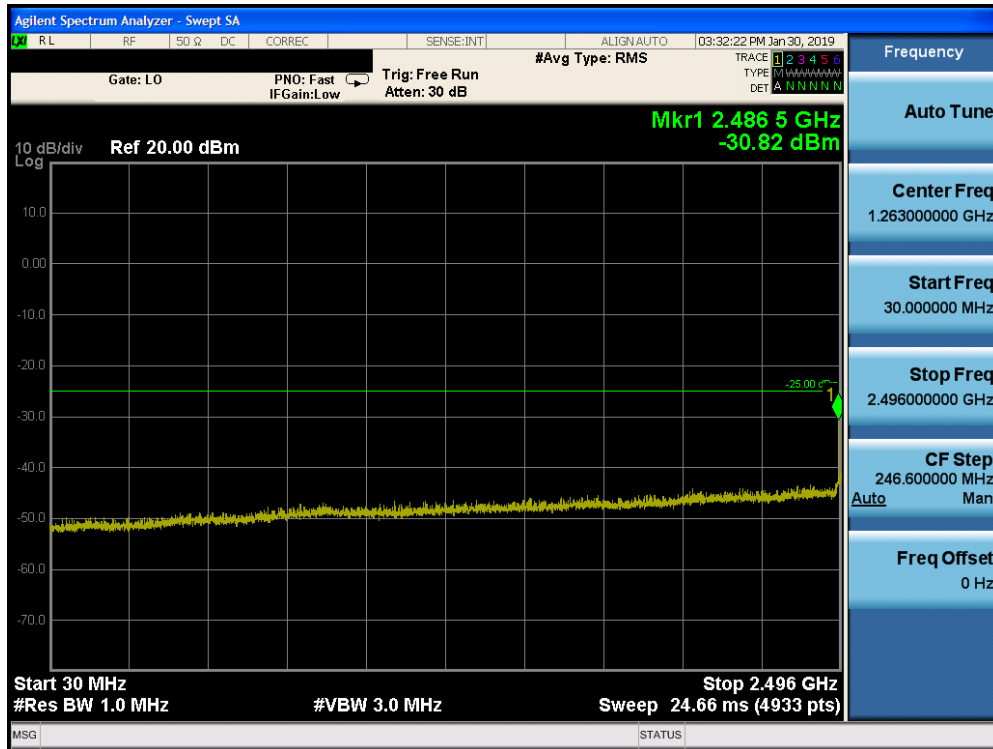


Table 7-401. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

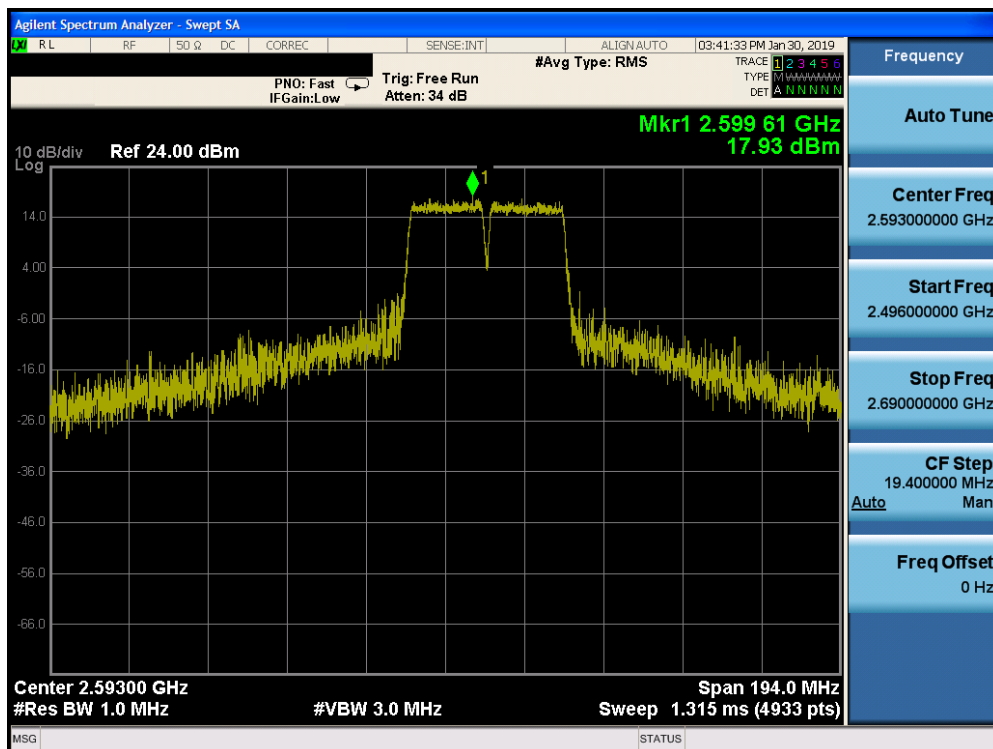


Table 7-402. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 247 of 338

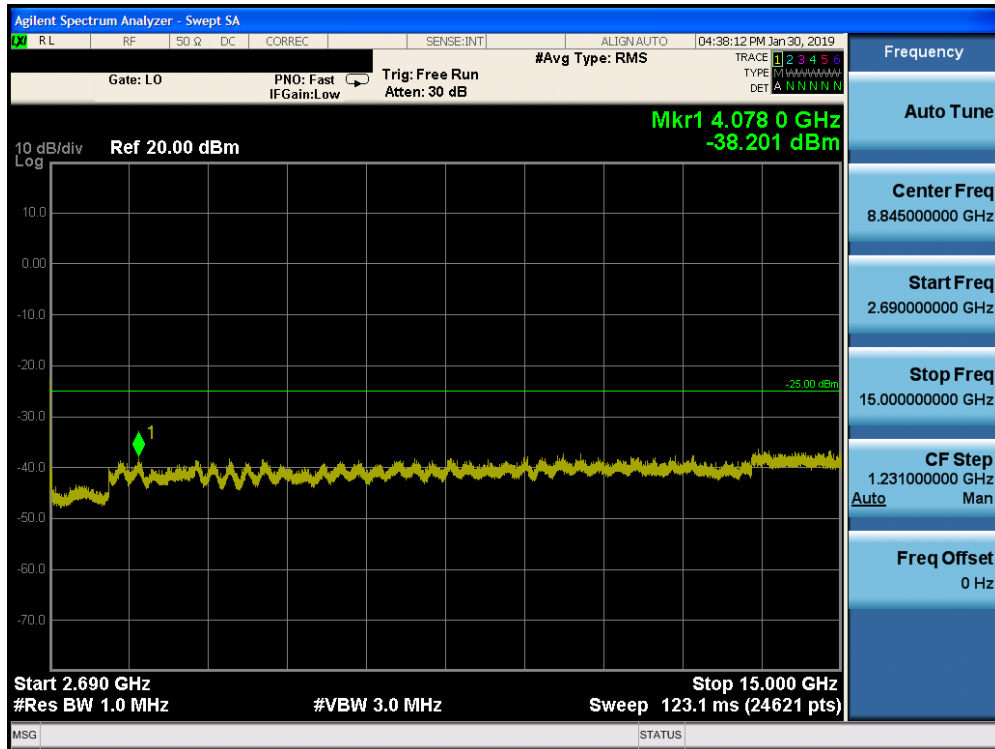


Table 7-403. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

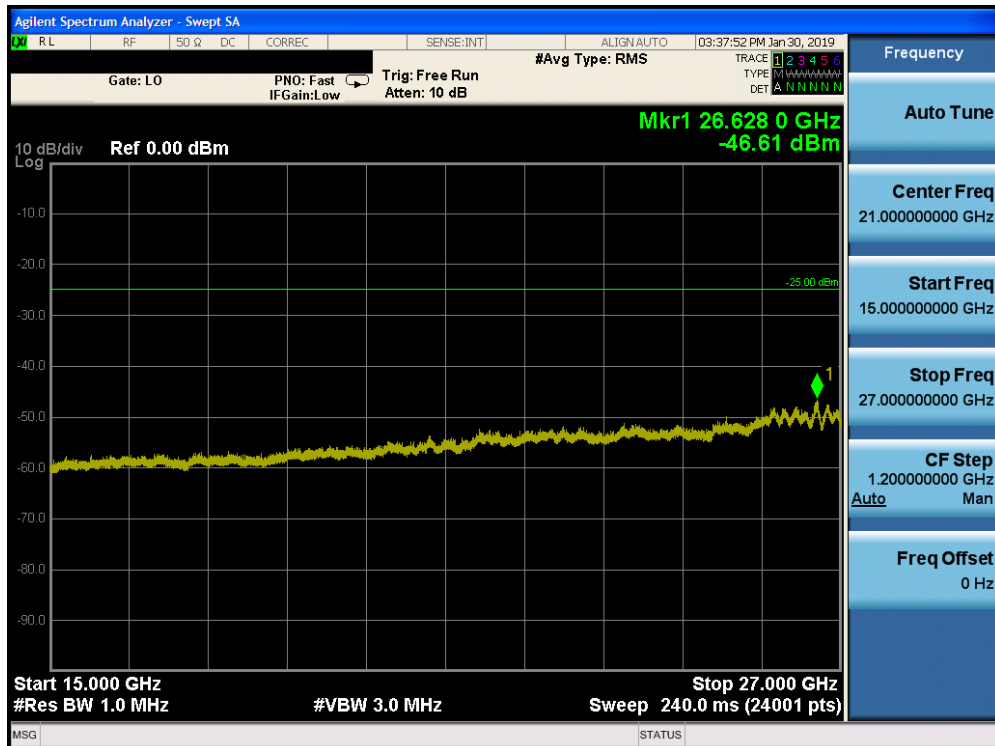


Table 7-404. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 248 of 338

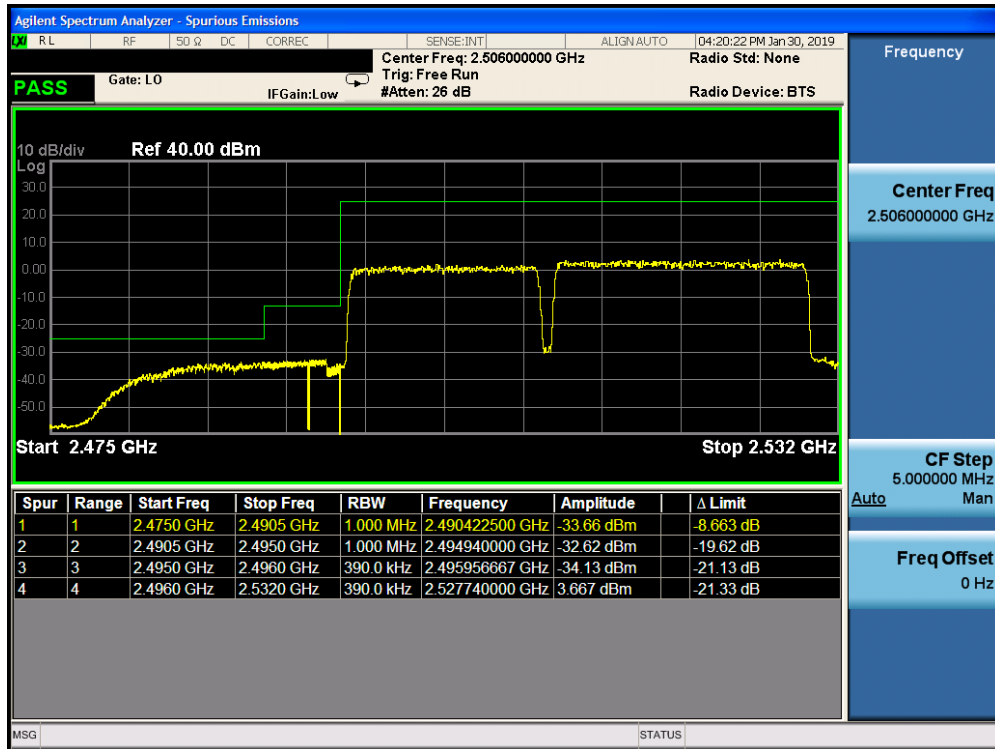


Table 7-405. Lower ACP Plot (Band 41 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)

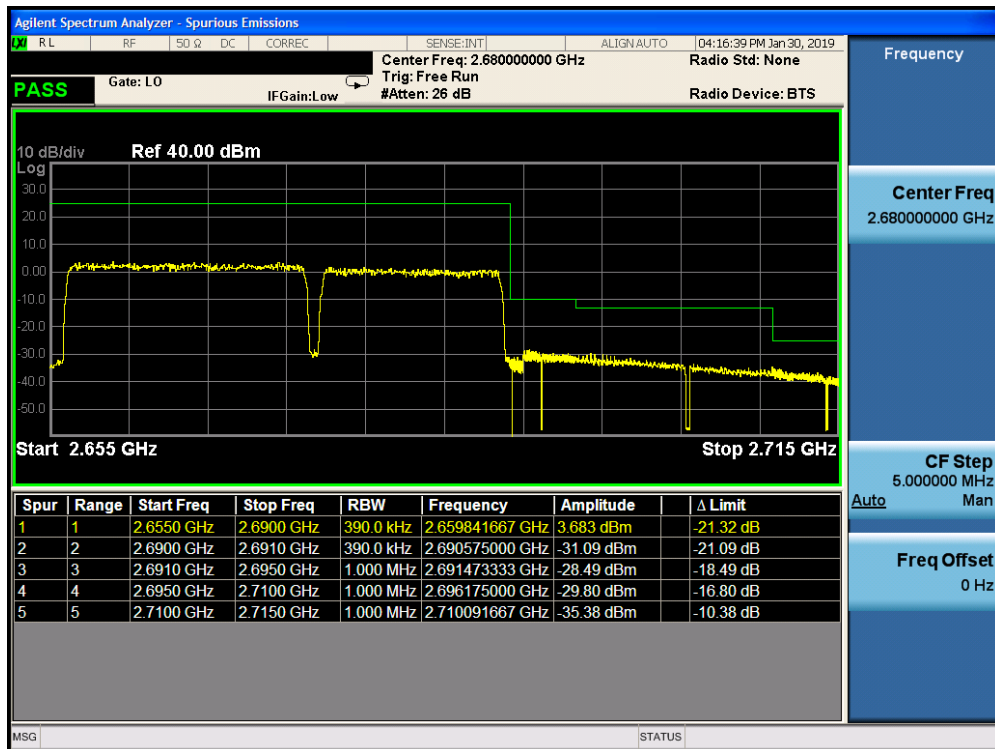


Table 7-406. Upper ACP Plot (Band 41 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	
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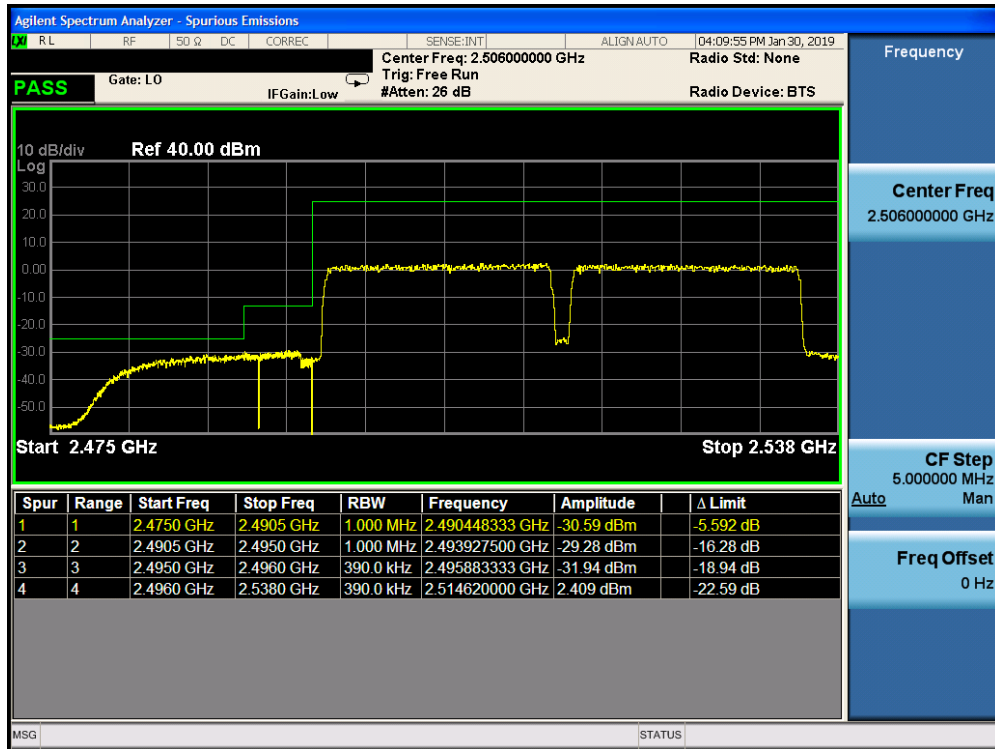


Table 7-407. Lower ACP Plot (Band 41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

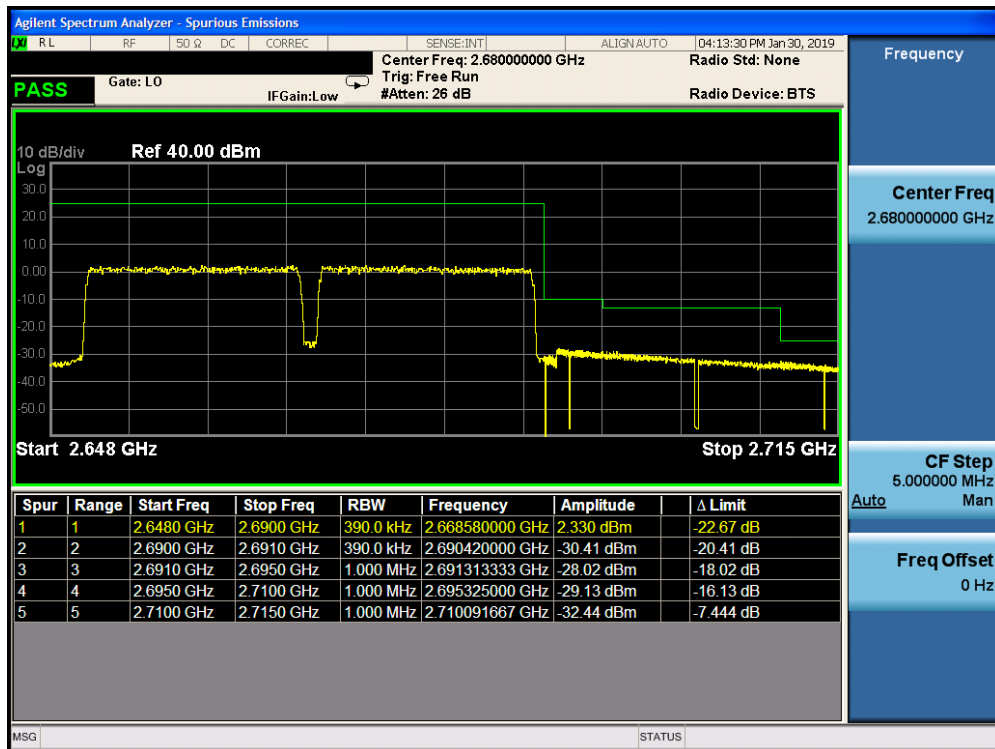


Table 7-408. Upper ACP Plot (Band 41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	
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7.8 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{ERP/EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Test Setup

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

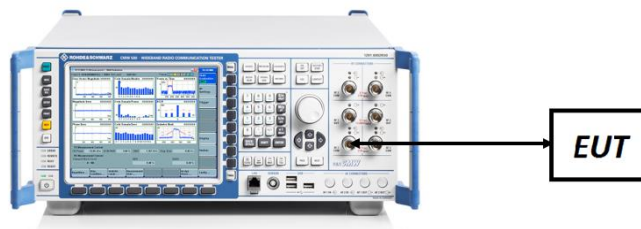


Figure 7-7. ERP/EIRP Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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- 3) The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
- 4) The Ant. Gains (GT) are listed in dBi.

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.8.1 Port A Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 0	25.40	-0.16	23.09	0.204	34.77	-11.68	25.24	0.334	36.99	-11.75
707.50	1.4	QPSK	1 / 5	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
715.30	1.4	QPSK	1 / 5	25.45	-0.16	23.14	0.206	34.77	-11.63	25.29	0.338	36.99	-11.70
715.30	1.4	16-QAM	1 / 5	24.83	-0.16	22.52	0.179	34.77	-12.25	24.67	0.293	36.99	-12.32
699.70	1.4	64-QAM	1 / 0	23.46	-0.16	21.15	0.130	34.77	-13.62	23.30	0.214	36.99	-13.69
700.50	3	QPSK	1 / 14	25.47	-0.16	23.16	0.207	34.77	-11.61	25.31	0.340	36.99	-11.68
707.50	3	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
714.50	3	QPSK	1 / 0	25.41	-0.16	23.10	0.204	34.77	-11.67	25.25	0.335	36.99	-11.74
700.50	3	16-QAM	1 / 0	24.89	-0.16	22.58	0.181	34.77	-12.19	24.73	0.297	36.99	-12.26
700.50	3	64-QAM	1 / 14	23.48	-0.16	21.17	0.131	34.77	-13.60	23.32	0.215	36.99	-13.67
701.50	5	QPSK	1 / 24	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
707.50	5	QPSK	1 / 0	25.39	-0.16	23.08	0.203	34.77	-11.69	25.23	0.333	36.99	-11.76
713.50	5	QPSK	1 / 0	25.36	-0.16	23.05	0.202	34.77	-11.72	25.20	0.331	36.99	-11.79
713.50	5	16-QAM	1 / 24	24.82	-0.16	22.51	0.178	34.77	-12.26	24.66	0.292	36.99	-12.33
701.50	5	64-QAM	1 / 0	23.49	-0.16	21.18	0.131	34.77	-13.59	23.33	0.215	36.99	-13.66
704.00	10	QPSK	1 / 0	25.46	-0.16	23.15	0.207	34.77	-11.62	25.30	0.339	36.99	-11.69
707.50	10	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
711.00	10	QPSK	1 / 0	25.46	-0.16	23.15	0.207	34.77	-11.62	25.30	0.339	36.99	-11.69
711.00	10	16-QAM	1 / 0	24.82	-0.16	22.51	0.178	34.77	-12.26	24.66	0.292	36.99	-12.33
707.50	10	64-QAM	1 / 49	23.47	-0.16	21.16	0.131	34.77	-13.61	23.31	0.214	36.99	-13.68

Table 7-16. ERP Data (Band 12)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 253 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
710.00	5	QPSK	1 / 24	25.40	-0.16	23.09	0.204	34.77	-11.68	25.24	0.334	36.99	-11.75
713.50	5	QPSK	1 / 24	25.39	-0.16	23.08	0.203	34.77	-11.69	25.23	0.333	36.99	-11.76
713.50	5	16-QAM	1 / 24	24.85	-0.16	22.54	0.179	34.77	-12.23	24.69	0.294	36.99	-12.30
710.00	5	64-QAM	1 / 24	23.55	-0.16	21.24	0.133	34.77	-13.53	23.39	0.218	36.99	-13.60
709.00	10	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
710.00	10	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
711.00	10	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
711.00	10	16-QAM	1 / 0	24.88	-0.16	22.57	0.181	34.77	-12.20	24.72	0.296	36.99	-12.27
709.00	10	64-QAM	1 / 49	23.52	-0.16	21.21	0.132	34.77	-13.56	23.36	0.217	36.99	-13.63

Table 7-17. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
782.00	5	QPSK	1 / 0	25.42	-0.16	23.11	0.205	34.77	-11.66	25.26	0.336	36.99	-11.73
784.50	5	QPSK	1 / 0	25.48	-0.16	23.17	0.207	34.77	-11.60	25.32	0.340	36.99	-11.67
779.50	5	16-QAM	1 / 0	24.78	-0.16	22.47	0.177	34.77	-12.30	24.62	0.290	36.99	-12.37
779.50	5	64-QAM	1 / 0	23.65	-0.16	21.34	0.136	34.77	-13.43	23.49	0.223	36.99	-13.50
782.00	10	QPSK	1 / 0	25.50	-0.16	23.19	0.208	34.77	-11.58	25.34	0.342	36.99	-11.65
782.00	10	16-QAM	1 / 0	24.87	-0.16	22.56	0.180	34.77	-12.21	24.71	0.296	36.99	-12.28
782.00	10	64-QAM	1 / 0	23.53	-0.16	21.22	0.132	34.77	-13.55	23.37	0.217	36.99	-13.62

Table 7-18. ERP Data (Band 13)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 254 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	25.27	0.49	23.61	0.230	38.45	-14.84	25.76	0.377	40.61	-14.85
836.50	1.4	QPSK	3 / 2	25.31	0.49	23.65	0.232	38.45	-14.80	25.80	0.380	40.61	-14.81
848.30	1.4	QPSK	1 / 0	25.48	0.49	23.82	0.241	38.45	-14.63	25.97	0.395	40.61	-14.64
848.30	1.4	16-QAM	1 / 5	24.71	0.49	23.05	0.202	38.45	-15.40	25.20	0.331	40.61	-15.41
836.50	1.4	64-QAM	1 / 0	23.56	0.49	21.90	0.155	38.45	-16.55	24.05	0.254	40.61	-16.56
825.50	3	QPSK	1 / 0	25.20	0.49	23.54	0.226	38.45	-14.91	25.69	0.371	40.61	-14.92
836.50	3	QPSK	1 / 0	25.34	0.49	23.68	0.233	38.45	-14.77	25.83	0.383	40.61	-14.78
847.50	3	QPSK	1 / 14	25.40	0.49	23.74	0.237	38.45	-14.71	25.89	0.388	40.61	-14.72
847.50	3	16-QAM	1 / 14	24.86	0.49	23.20	0.209	38.45	-15.25	25.35	0.343	40.61	-15.26
836.50	3	64-QAM	1 / 14	23.51	0.49	21.85	0.153	38.45	-16.60	24.00	0.251	40.61	-16.61
826.50	5	QPSK	1 / 0	25.22	0.49	23.56	0.227	38.45	-14.89	25.71	0.372	40.61	-14.90
836.50	5	QPSK	1 / 24	25.35	0.49	23.69	0.234	38.45	-14.76	25.84	0.384	40.61	-14.77
846.50	5	QPSK	1 / 24	25.48	0.49	23.82	0.241	38.45	-14.63	25.97	0.395	40.61	-14.64
836.50	5	16-QAM	1 / 24	24.73	0.49	23.07	0.203	38.45	-15.38	25.22	0.333	40.61	-15.39
836.50	5	64-QAM	1 / 24	23.58	0.49	21.92	0.156	38.45	-16.53	24.07	0.255	40.61	-16.54
829.00	10	QPSK	1 / 49	25.29	0.49	23.63	0.231	38.45	-14.82	25.78	0.378	40.61	-14.83
836.50	10	QPSK	1 / 49	25.38	0.49	23.72	0.236	38.45	-14.73	25.87	0.386	40.61	-14.74
844.00	10	QPSK	1 / 49	25.48	0.49	23.82	0.241	38.45	-14.63	25.97	0.395	40.61	-14.64
844.00	10	16-QAM	1 / 49	24.87	0.49	23.21	0.209	38.45	-15.24	25.36	0.344	40.61	-15.25
844.00	10	64-QAM	1 / 0	23.43	0.49	21.77	0.150	38.45	-16.68	23.92	0.247	40.61	-16.69

Table 7-19. ERP Data (Band 5)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 255 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	3 / 2	25.22	0.49	23.56	0.227	38.45	-14.89	25.71	0.372	40.61	-14.90
836.50	1.4	QPSK	1 / 0	25.39	0.49	23.73	0.236	38.45	-14.72	25.88	0.387	40.61	-14.73
848.30	1.4	QPSK	1 / 5	25.46	0.49	23.80	0.240	38.45	-14.65	25.95	0.394	40.61	-14.66
848.30	1.4	16-QAM	1 / 5	24.86	0.49	23.20	0.209	38.45	-15.25	25.35	0.343	40.61	-15.26
848.30	1.4	64-QAM	1 / 0	23.50	0.49	21.84	0.153	38.45	-16.61	23.99	0.251	40.61	-16.62
825.50	3	QPSK	1 / 0	25.20	0.49	23.54	0.226	38.45	-14.91	25.69	0.371	40.61	-14.92
836.50	3	QPSK	1 / 0	25.33	0.49	23.67	0.233	38.45	-14.78	25.82	0.382	40.61	-14.79
847.50	3	QPSK	1 / 14	25.41	0.49	23.75	0.237	38.45	-14.70	25.90	0.389	40.61	-14.71
847.50	3	16-QAM	1 / 14	24.79	0.49	23.13	0.206	38.45	-15.32	25.28	0.337	40.61	-15.33
847.50	3	64-QAM	1 / 14	23.49	0.49	21.83	0.152	38.45	-16.62	23.98	0.250	40.61	-16.63
826.50	5	QPSK	1 / 0	25.30	0.49	23.64	0.231	38.45	-14.81	25.79	0.379	40.61	-14.82
836.50	5	QPSK	1 / 0	25.30	0.49	23.64	0.231	38.45	-14.81	25.79	0.379	40.61	-14.82
846.50	5	QPSK	1 / 24	25.45	0.49	23.79	0.239	38.45	-14.66	25.94	0.393	40.61	-14.67
846.50	5	16-QAM	1 / 24	24.97	0.49	23.31	0.214	38.45	-15.14	25.46	0.352	40.61	-15.15
836.50	5	64-QAM	1 / 24	23.58	0.49	21.92	0.156	38.45	-16.53	24.07	0.255	40.61	-16.54
829.00	10	QPSK	1 / 49	25.30	0.49	23.64	0.231	38.45	-14.81	25.79	0.379	40.61	-14.82
836.50	10	QPSK	1 / 49	25.39	0.49	23.73	0.236	38.45	-14.72	25.88	0.387	40.61	-14.73
844.00	10	QPSK	1 / 49	25.48	0.49	23.82	0.241	38.45	-14.63	25.97	0.395	40.61	-14.64
844.00	10	16-QAM	1 / 49	24.85	0.49	23.19	0.208	38.45	-15.26	25.34	0.342	40.61	-15.27
829.00	10	64-QAM	1 / 49	23.45	0.49	21.79	0.151	38.45	-16.66	23.94	0.248	40.61	-16.67

Table 7-20. ERP Data (Band 26)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 256 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	3 / 2	25.23	-1.31	23.92	0.247	30.00	-6.08
1732.50	1.4	QPSK	3 / 2	25.50	-1.31	24.19	0.262	30.00	-5.81
1754.30	1.4	QPSK	1 / 5	25.39	-1.31	24.08	0.256	30.00	-5.92
1732.50	1.4	16-QAM	1 / 5	24.67	-1.31	23.36	0.217	30.00	-6.64
1710.70	1.4	64-QAM	1 / 5	23.26	-1.31	21.95	0.157	30.00	-8.05
1711.50	3	QPSK	1 / 14	25.22	-1.31	23.91	0.246	30.00	-6.09
1732.50	3	QPSK	1 / 0	25.25	-1.31	23.94	0.248	30.00	-6.06
1753.50	3	QPSK	1 / 0	25.06	-1.31	23.75	0.237	30.00	-6.25
1732.50	3	16-QAM	1 / 14	24.88	-1.31	23.57	0.228	30.00	-6.43
1732.50	3	64-QAM	1 / 14	23.26	-1.31	21.95	0.157	30.00	-8.05
1712.50	5	QPSK	1 / 0	25.42	-1.31	24.11	0.258	30.00	-5.89
1732.50	5	QPSK	1 / 0	25.50	-1.31	24.19	0.262	30.00	-5.81
1752.50	5	QPSK	1 / 0	25.32	-1.31	24.01	0.252	30.00	-5.99
1732.50	5	16-QAM	1 / 24	24.85	-1.31	23.54	0.226	30.00	-6.46
1732.50	5	64-QAM	1 / 24	23.21	-1.31	21.90	0.155	30.00	-8.10
1715.00	10	QPSK	1 / 0	25.35	-1.31	24.04	0.254	30.00	-5.96
1732.50	10	QPSK	1 / 0	25.50	-1.31	24.19	0.262	30.00	-5.81
1750.00	10	QPSK	1 / 49	25.35	-1.31	24.04	0.254	30.00	-5.96
1732.50	10	16-QAM	1 / 49	24.70	-1.31	23.39	0.218	30.00	-6.61
1732.50	10	64-QAM	1 / 49	23.14	-1.31	21.83	0.152	30.00	-8.17
1717.50	15	QPSK	1 / 74	25.44	-1.31	24.13	0.259	30.00	-5.87
1732.50	15	QPSK	1 / 0	25.50	-1.31	24.19	0.262	30.00	-5.81
1747.50	15	QPSK	1 / 0	25.49	-1.31	24.18	0.262	30.00	-5.82
1717.50	15	16-QAM	1 / 74	24.90	-1.31	23.59	0.229	30.00	-6.41
1717.50	15	64-QAM	1 / 0	23.27	-1.31	21.96	0.157	30.00	-8.04
1720.00	20	QPSK	1 / 99	25.50	-1.31	24.19	0.262	30.00	-5.81
1732.50	20	QPSK	1 / 99	25.37	-1.31	24.06	0.255	30.00	-5.94
1745.00	20	QPSK	1 / 0	25.27	-1.31	23.96	0.249	30.00	-6.04
1745.00	20	16-QAM	1 / 0	24.67	-1.31	23.36	0.217	30.00	-6.64
1745.00	20	64-QAM	1 / 0	23.54	-1.31	22.23	0.167	30.00	-7.77

Table 7-21. EIRP Data (Band 4)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 257 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	3 / 2	25.46	-1.31	24.15	0.260	30.00	-5.85
1745.00	1.4	QPSK	1 / 0	25.38	-1.31	24.07	0.255	30.00	-5.93
1779.30	1.4	QPSK	1 / 5	25.50	-1.31	24.19	0.262	30.00	-5.81
1779.30	1.4	16-QAM	1 / 5	24.80	-1.31	23.49	0.223	30.00	-6.51
1779.30	1.4	64-QAM	3 / 2	23.65	-1.31	22.34	0.171	30.00	-7.66
1711.50	3	QPSK	1 / 0	25.40	-1.31	24.09	0.256	30.00	-5.91
1745.00	3	QPSK	1 / 0	25.36	-1.31	24.05	0.254	30.00	-5.95
1778.50	3	QPSK	1 / 14	25.50	-1.31	24.19	0.262	30.00	-5.81
1778.50	3	16-QAM	1 / 0	24.80	-1.31	23.49	0.223	30.00	-6.51
1711.50	3	64-QAM	1 / 0	23.64	-1.31	22.33	0.171	30.00	-7.67
1712.50	5	QPSK	1 / 0	25.44	-1.31	24.13	0.259	30.00	-5.87
1745.00	5	QPSK	1 / 0	25.34	-1.31	24.03	0.253	30.00	-5.97
1777.50	5	QPSK	1 / 24	25.50	-1.31	24.19	0.262	30.00	-5.81
1777.50	5	16-QAM	1 / 0	24.85	-1.31	23.54	0.226	30.00	-6.46
1777.50	5	64-QAM	1 / 24	23.77	-1.31	22.46	0.176	30.00	-7.54
1715.00	10	QPSK	1 / 0	25.40	-1.31	24.09	0.256	30.00	-5.91
1745.00	10	QPSK	1 / 0	25.43	-1.31	24.12	0.258	30.00	-5.88
1775.00	10	QPSK	1 / 49	25.50	-1.31	24.19	0.262	30.00	-5.81
1715.00	10	16-QAM	1 / 49	24.79	-1.31	23.48	0.223	30.00	-6.52
1775.00	10	64-QAM	1 / 49	23.59	-1.31	22.28	0.169	30.00	-7.72
1717.50	15	QPSK	1 / 0	25.40	-1.31	24.09	0.256	30.00	-5.91
1745.00	15	QPSK	1 / 0	25.49	-1.31	24.18	0.262	30.00	-5.82
1772.50	15	QPSK	1 / 0	25.50	-1.31	24.19	0.262	30.00	-5.81
1772.50	15	16-QAM	1 / 0	24.94	-1.31	23.63	0.231	30.00	-6.37
1717.50	15	64-QAM	1 / 74	23.71	-1.31	22.40	0.174	30.00	-7.60
1720.00	20	QPSK	1 / 99	25.50	-1.31	24.19	0.262	30.00	-5.81
1745.00	20	QPSK	1 / 0	25.30	-1.31	23.99	0.251	30.00	-6.01
1770.00	20	QPSK	1 / 0	25.29	-1.31	23.98	0.250	30.00	-6.02
1720.00	20	16-QAM	1 / 99	24.90	-1.31	23.59	0.229	30.00	-6.41
1720.00	20	64-QAM	1 / 99	23.77	-1.31	22.46	0.176	30.00	-7.54

Table 7-22. EIRP Data (Band 66)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 258 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	25.43	0.29	25.72	0.373	33.01	-7.29
1880.00	1.4	QPSK	1 / 0	25.36	0.29	25.65	0.367	33.01	-7.36
1909.30	1.4	QPSK	1 / 0	25.50	0.29	25.79	0.379	33.01	-7.22
1909.30	1.4	16-QAM	1 / 0	24.49	0.29	24.78	0.301	33.01	-8.23
1909.30	1.4	64-QAM	1 / 0	23.25	0.29	23.54	0.226	33.01	-9.47
1851.50	3	QPSK	1 / 0	25.37	0.29	25.66	0.368	33.01	-7.35
1880.00	3	QPSK	1 / 14	25.36	0.29	25.65	0.367	33.01	-7.36
1908.50	3	QPSK	1 / 0	25.44	0.29	25.73	0.374	33.01	-7.28
1908.50	3	16-QAM	1 / 14	24.39	0.29	24.68	0.294	33.01	-8.33
1908.50	3	64-QAM	1 / 14	23.20	0.29	23.49	0.223	33.01	-9.52
1852.50	5	QPSK	1 / 24	25.50	0.29	25.79	0.379	33.01	-7.22
1880.00	5	QPSK	1 / 24	25.29	0.29	25.58	0.361	33.01	-7.43
1907.50	5	QPSK	1 / 24	25.43	0.29	25.72	0.373	33.01	-7.29
1907.50	5	16-QAM	1 / 24	24.41	0.29	24.70	0.295	33.01	-8.31
1852.50	5	64-QAM	1 / 24	23.30	0.29	23.59	0.229	33.01	-9.42
1855.00	10	QPSK	1 / 49	25.44	0.29	25.73	0.374	33.01	-7.28
1880.00	10	QPSK	1 / 49	25.35	0.29	25.64	0.366	33.01	-7.37
1905.00	10	QPSK	1 / 49	25.49	0.29	25.78	0.378	33.01	-7.23
1855.00	10	16-QAM	1 / 49	24.50	0.29	24.79	0.301	33.01	-8.22
1855.00	10	64-QAM	1 / 49	23.21	0.29	23.50	0.224	33.01	-9.51
1857.50	15	QPSK	1 / 0	25.40	0.29	25.69	0.371	33.01	-7.32
1880.00	15	QPSK	1 / 74	25.27	0.29	25.56	0.360	33.01	-7.45
1902.50	15	QPSK	1 / 74	25.45	0.29	25.74	0.375	33.01	-7.27
1902.50	15	16-QAM	1 / 74	24.40	0.29	24.69	0.294	33.01	-8.32
1902.50	15	64-QAM	1 / 74	23.17	0.29	23.46	0.222	33.01	-9.55
1860.00	20	QPSK	1 / 0	25.42	0.29	25.71	0.372	33.01	-7.30
1880.00	20	QPSK	1 / 99	25.37	0.29	25.66	0.368	33.01	-7.35
1900.00	20	QPSK	1 / 99	25.46	0.29	25.75	0.376	33.01	-7.26
1900.00	20	16-QAM	1 / 99	24.45	0.29	24.74	0.298	33.01	-8.27
1900.00	20	64-QAM	1 / 99	23.30	0.29	23.59	0.229	33.01	-9.42

Table 7-23. EIRP Data (Band 2)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 259 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	25.50	0.29	25.79	0.379	33.01	-7.22
1882.50	1.4	QPSK	1 / 5	25.50	0.29	25.79	0.379	33.01	-7.22
1914.30	1.4	QPSK	1 / 5	25.45	0.29	25.74	0.375	33.01	-7.27
1914.30	1.4	16-QAM	1 / 0	24.87	0.29	25.16	0.328	33.01	-7.85
1882.50	1.4	64-QAM	3 / 2	23.64	0.29	23.93	0.247	33.01	-9.08
1851.50	3	QPSK	1 / 0	25.50	0.29	25.79	0.379	33.01	-7.22
1882.50	3	QPSK	1 / 0	25.49	0.29	25.78	0.378	33.01	-7.23
1913.50	3	QPSK	1 / 0	25.45	0.29	25.74	0.375	33.01	-7.27
1851.50	3	16-QAM	1 / 14	24.86	0.29	25.15	0.327	33.01	-7.86
1882.50	3	64-QAM	1 / 0	23.77	0.29	24.06	0.255	33.01	-8.95
1852.50	5	QPSK	1 / 24	25.50	0.29	25.79	0.379	33.01	-7.22
1882.50	5	QPSK	1 / 0	25.34	0.29	25.63	0.366	33.01	-7.38
1912.50	5	QPSK	1 / 0	25.43	0.29	25.72	0.373	33.01	-7.29
1912.50	5	16-QAM	1 / 24	24.84	0.29	25.13	0.326	33.01	-7.88
1852.50	5	64-QAM	1 / 24	23.72	0.29	24.01	0.252	33.01	-9.00
1855.00	10	QPSK	1 / 49	25.50	0.29	25.79	0.379	33.01	-7.22
1882.50	10	QPSK	1 / 49	25.44	0.29	25.73	0.374	33.01	-7.28
1910.00	10	QPSK	1 / 0	25.48	0.29	25.77	0.378	33.01	-7.24
1855.00	10	16-QAM	1 / 0	24.85	0.29	25.14	0.327	33.01	-7.87
1855.00	10	64-QAM	1 / 49	23.67	0.29	23.96	0.249	33.01	-9.05
1857.50	15	QPSK	1 / 74	25.40	0.29	25.69	0.371	33.01	-7.32
1882.50	15	QPSK	1 / 74	25.50	0.29	25.79	0.379	33.01	-7.22
1907.50	15	QPSK	1 / 0	25.47	0.29	25.76	0.377	33.01	-7.25
1857.50	15	16-QAM	1 / 74	24.83	0.29	25.12	0.325	33.01	-7.89
1882.50	15	64-QAM	1 / 74	23.81	0.29	24.10	0.257	33.01	-8.91
1860.00	20	QPSK	1 / 0	25.50	0.29	25.79	0.379	33.01	-7.22
1882.50	20	QPSK	1 / 99	25.45	0.29	25.74	0.375	33.01	-7.27
1905.00	20	QPSK	1 / 0	25.43	0.29	25.72	0.373	33.01	-7.29
1905.00	20	16-QAM	1 / 0	24.77	0.29	25.06	0.321	33.01	-7.95
1905.00	20	64-QAM	1 / 0	24.02	0.29	24.31	0.270	33.01	-8.70

Table 7-24. EIRP Data (Band 25)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 260 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 0	25.31	-0.10	25.21	0.332	33.01	-7.80
2535.00	5	QPSK	1 / 24	25.50	-0.81	24.69	0.294	33.01	-8.32
2567.50	5	QPSK	1 / 24	25.34	-0.81	24.53	0.284	33.01	-8.48
2502.50	5	16-QAM	1 / 0	24.77	-0.10	24.67	0.293	33.01	-8.34
2502.50	5	64-QAM	1 / 0	23.43	-0.10	23.33	0.215	33.01	-9.68
2505.00	10	QPSK	1 / 0	25.40	-0.10	25.30	0.339	33.01	-7.71
2535.00	10	QPSK	1 / 0	25.50	-0.81	24.69	0.294	33.01	-8.32
2565.00	10	QPSK	1 / 49	25.35	-0.81	24.54	0.284	33.01	-8.47
2505.00	10	16-QAM	1 / 0	24.89	-0.10	24.79	0.301	33.01	-8.22
2505.00	10	64-QAM	1 / 49	23.54	-0.10	23.44	0.221	33.01	-9.57
2507.50	15	QPSK	1 / 74	25.43	-0.10	25.33	0.341	33.01	-7.68
2535.00	15	QPSK	1 / 0	25.50	-0.81	24.69	0.294	33.01	-8.32
2562.50	15	QPSK	1 / 74	25.36	-0.81	24.55	0.285	33.01	-8.46
2507.50	15	16-QAM	1 / 74	24.98	-0.10	24.88	0.308	33.01	-8.13
2507.50	15	64-QAM	1 / 74	23.67	-0.10	23.57	0.228	33.01	-9.44
2510.00	20	QPSK	1 / 99	25.28	-0.10	25.18	0.330	33.01	-7.83
2535.00	20	QPSK	1 / 99	25.35	-0.81	24.54	0.284	33.01	-8.47
2560.00	20	QPSK	1 / 99	25.50	-0.81	24.69	0.294	33.01	-8.32
2510.00	20	16-QAM	1 / 99	25.13	-0.10	25.03	0.318	33.01	-7.98
2510.00	20	64-QAM	1 / 99	23.62	-0.10	23.52	0.225	33.01	-9.49

Table 7-25. EIRP Data (Band 7)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 261 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	27.00	-0.10	26.90	0.490	33.01	-6.11
2593.00	5	QPSK	1 / 0	26.99	-0.81	26.18	0.415	33.01	-6.83
2687.50	5	QPSK	1 / 0	26.83	-0.81	26.02	0.400	33.01	-6.99
2498.50	5	16-QAM	1 / 0	26.37	-0.10	26.27	0.424	33.01	-6.74
2498.50	5	64-QAM	1 / 24	25.43	-0.10	25.33	0.341	33.01	-7.68
2501.00	10	QPSK	1 / 0	26.99	-0.10	26.89	0.489	33.01	-6.12
2593.00	10	QPSK	1 / 0	27.00	-0.81	26.19	0.416	33.01	-6.82
2685.00	10	QPSK	1 / 0	26.76	-0.81	25.95	0.394	33.01	-7.06
2501.00	10	16-QAM	1 / 0	26.44	-0.10	26.34	0.431	33.01	-6.67
2501.00	10	64-QAM	1 / 49	25.21	-0.10	25.11	0.324	33.01	-7.90
2503.50	15	QPSK	1 / 0	26.94	-0.10	26.84	0.483	33.01	-6.17
2593.00	15	QPSK	1 / 0	27.00	-0.81	26.19	0.416	33.01	-6.82
2682.50	15	QPSK	1 / 0	26.83	-0.81	26.02	0.400	33.01	-6.99
2503.50	15	16-QAM	1 / 0	26.44	-0.10	26.34	0.431	33.01	-6.67
2503.50	15	64-QAM	1 / 74	25.15	-0.10	25.05	0.320	33.01	-7.96
2506.00	20	QPSK	1 / 0	27.00	-0.10	26.90	0.490	33.01	-6.11
2593.00	20	QPSK	1 / 0	26.95	-0.81	26.14	0.411	33.01	-6.87
2680.00	20	QPSK	1 / 99	26.85	-0.81	26.04	0.402	33.01	-6.97
2506.00	20	16-QAM	1 / 0	26.31	-0.10	26.21	0.418	33.01	-6.80
2506.00	20	64-QAM	1 / 99	25.25	-0.10	25.15	0.327	33.01	-7.86

Table 7-26. EIRP Data (Band 41)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 262 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	23.30	-0.10	23.20	0.209	23.98	-0.78
2312.50	5	QPSK	1 / 0	23.29	-0.10	23.19	0.208	23.98	-0.79
2312.50	5	16-QAM	1 / 0	22.46	-0.10	22.36	0.172	23.98	-1.62
2312.50	5	64-QAM	1 / 0	21.49	-0.10	21.39	0.138	23.98	-2.59
2310.00	10	QPSK	1 / 49	23.30	-0.10	23.20	0.209	23.98	-0.78
2310.00	10	16-QAM	1 / 49	22.49	-0.10	22.39	0.173	23.98	-1.59
2310.00	10	64-QAM	1 / 49	21.57	-0.10	21.47	0.140	23.98	-2.51

Table 7-27. EIRP Data (Band 30)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 263 of 338

7.8.2 Port B Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 5	24.36	0.01	22.22	0.167	34.77	-12.55	24.37	0.274	36.99	-12.62
707.50	1.4	QPSK	1 / 0	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
715.30	1.4	QPSK	1 / 5	24.44	0.01	22.30	0.170	34.77	-12.47	24.45	0.279	36.99	-12.54
715.30	1.4	16-QAM	1 / 5	23.80	0.01	21.66	0.147	34.77	-13.11	23.81	0.240	36.99	-13.18
715.30	1.4	64-QAM	1 / 5	22.71	0.01	20.57	0.114	34.77	-14.20	22.72	0.187	36.99	-14.27
700.50	3	QPSK	1 / 14	24.48	0.01	22.34	0.171	34.77	-12.43	24.49	0.281	36.99	-12.50
707.50	3	QPSK	1 / 0	24.45	0.01	22.31	0.170	34.77	-12.46	24.46	0.279	36.99	-12.53
714.50	3	QPSK	1 / 14	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
714.50	3	16-QAM	1 / 14	23.85	0.01	21.71	0.148	34.77	-13.06	23.86	0.243	36.99	-13.13
714.50	3	64-QAM	1 / 14	22.84	0.01	20.70	0.117	34.77	-14.07	22.85	0.193	36.99	-14.14
701.50	5	QPSK	1 / 24	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
707.50	5	QPSK	1 / 0	24.38	0.01	22.24	0.167	34.77	-12.53	24.39	0.275	36.99	-12.60
713.50	5	QPSK	1 / 24	24.46	0.01	22.32	0.171	34.77	-12.45	24.47	0.280	36.99	-12.52
713.50	5	16-QAM	1 / 24	23.74	0.01	21.60	0.145	34.77	-13.17	23.75	0.237	36.99	-13.24
701.50	5	64-QAM	1 / 24	22.75	0.01	20.61	0.115	34.77	-14.16	22.76	0.189	36.99	-14.23
704.00	10	QPSK	1 / 0	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
707.50	10	QPSK	1 / 0	24.49	0.01	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
711.00	10	QPSK	1 / 0	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
707.50	10	16-QAM	1 / 0	23.93	0.01	21.79	0.151	34.77	-12.98	23.94	0.248	36.99	-13.05
707.50	10	64-QAM	1 / 49	22.83	0.01	20.69	0.117	34.77	-14.08	22.84	0.192	36.99	-14.15

Table 7-28. ERP Data (Band 12)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 264 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	24.32	0.01	22.18	0.165	34.77	-12.59	24.33	0.271	36.99	-12.66
710.00	5	QPSK	1 / 0	24.24	0.01	22.10	0.162	34.77	-12.67	24.25	0.266	36.99	-12.74
713.50	5	QPSK	1 / 24	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
713.50	5	16-QAM	1 / 24	23.82	0.01	21.68	0.147	34.77	-13.09	23.83	0.242	36.99	-13.16
706.50	5	64-QAM	1 / 0	22.68	0.01	20.54	0.113	34.77	-14.23	22.69	0.186	36.99	-14.30
709.00	10	QPSK	1 / 0	24.49	0.01	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
710.00	10	QPSK	1 / 0	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
711.00	10	QPSK	1 / 49	24.43	0.01	22.29	0.169	34.77	-12.48	24.44	0.278	36.99	-12.55
711.00	10	16-QAM	1 / 0	23.92	0.01	21.78	0.151	34.77	-12.99	23.93	0.247	36.99	-13.06
710.00	10	64-QAM	1 / 49	22.82	0.01	20.68	0.117	34.77	-14.09	22.83	0.192	36.99	-14.16

Table 7-29. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
782.00	5	QPSK	1 / 0	24.11	0.01	21.97	0.157	34.77	-12.80	24.12	0.258	36.99	-12.87
784.50	5	QPSK	1 / 0	24.08	0.01	21.94	0.156	34.77	-12.83	24.09	0.256	36.99	-12.90
779.50	5	16-QAM	1 / 0	23.70	0.01	21.56	0.143	34.77	-13.21	23.71	0.235	36.99	-13.28
779.50	5	64-QAM	1 / 0	22.60	0.01	20.46	0.111	34.77	-14.31	22.61	0.182	36.99	-14.38
782.00	10	QPSK	1 / 0	24.50	0.01	22.36	0.172	34.77	-12.41	24.51	0.282	36.99	-12.48
782.00	10	16-QAM	1 / 0	23.75	0.01	21.61	0.145	34.77	-13.16	23.76	0.238	36.99	-13.23
782.00	10	64-QAM	1 / 0	22.68	0.01	20.54	0.113	34.77	-14.23	22.69	0.186	36.99	-14.30

Table 7-30. ERP Data (Band 13)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 265 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.25	0.36	22.46	0.176	38.45	-15.99	24.61	0.289	40.61	-16.00
836.50	1.4	QPSK	1 / 0	24.39	0.36	22.60	0.182	38.45	-15.85	24.75	0.299	40.61	-15.86
848.30	1.4	QPSK	1 / 5	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
848.30	1.4	16-QAM	1 / 5	23.92	0.36	22.13	0.163	38.45	-16.32	24.28	0.268	40.61	-16.33
848.30	1.4	64-QAM	1 / 5	22.78	0.36	20.99	0.126	38.45	-17.46	23.14	0.206	40.61	-17.47
825.50	3	QPSK	1 / 0	24.29	0.36	22.50	0.178	38.45	-15.95	24.65	0.292	40.61	-15.96
836.50	3	QPSK	1 / 0	24.43	0.36	22.64	0.184	38.45	-15.81	24.79	0.301	40.61	-15.82
847.50	3	QPSK	1 / 14	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
847.50	3	16-QAM	1 / 14	23.93	0.36	22.14	0.164	38.45	-16.31	24.29	0.269	40.61	-16.32
847.50	3	64-QAM	1 / 14	22.80	0.36	21.01	0.126	38.45	-17.44	23.16	0.207	40.61	-17.45
826.50	5	QPSK	1 / 0	24.34	0.36	22.55	0.180	38.45	-15.90	24.70	0.295	40.61	-15.91
836.50	5	QPSK	1 / 24	24.31	0.36	22.52	0.179	38.45	-15.93	24.67	0.293	40.61	-15.94
846.50	5	QPSK	1 / 24	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
846.50	5	16-QAM	1 / 24	23.96	0.36	22.17	0.165	38.45	-16.28	24.32	0.270	40.61	-16.29
846.50	5	64-QAM	1 / 24	22.91	0.36	21.12	0.129	38.45	-17.33	23.27	0.212	40.61	-17.34
829.00	10	QPSK	1 / 0	24.32	0.36	22.53	0.179	38.45	-15.92	24.68	0.294	40.61	-15.93
836.50	10	QPSK	1 / 49	24.45	0.36	22.66	0.185	38.45	-15.79	24.81	0.303	40.61	-15.80
844.00	10	QPSK	1 / 49	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
844.00	10	16-QAM	1 / 49	23.84	0.36	22.05	0.160	38.45	-16.40	24.20	0.263	40.61	-16.41
844.00	10	64-QAM	1 / 49	22.87	0.36	21.08	0.128	38.45	-17.37	23.23	0.210	40.61	-17.38

Table 7-31. ERP Data (Band 5)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 266 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.25	0.36	22.46	0.176	38.45	-15.99	24.61	0.289	40.61	-16.00
836.50	1.4	QPSK	1 / 0	24.39	0.36	22.60	0.182	38.45	-15.85	24.75	0.299	40.61	-15.86
848.30	1.4	QPSK	1 / 5	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
848.30	1.4	16-QAM	1 / 5	23.97	0.36	22.18	0.165	38.45	-16.27	24.33	0.271	40.61	-16.28
848.30	1.4	64-QAM	1 / 5	22.79	0.36	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
825.50	3	QPSK	1 / 0	24.27	0.36	22.48	0.177	38.45	-15.97	24.63	0.290	40.61	-15.98
836.50	3	QPSK	1 / 0	24.43	0.36	22.64	0.184	38.45	-15.81	24.79	0.301	40.61	-15.82
847.50	3	QPSK	1 / 14	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
847.50	3	16-QAM	1 / 14	23.89	0.36	22.10	0.162	38.45	-16.35	24.25	0.266	40.61	-16.36
847.50	3	64-QAM	1 / 14	22.80	0.36	21.01	0.126	38.45	-17.44	23.16	0.207	40.61	-17.45
826.50	5	QPSK	1 / 0	24.35	0.36	22.56	0.180	38.45	-15.89	24.71	0.296	40.61	-15.90
836.50	5	QPSK	1 / 0	24.36	0.36	22.57	0.181	38.45	-15.88	24.72	0.296	40.61	-15.89
846.50	5	QPSK	1 / 24	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
846.50	5	16-QAM	1 / 24	23.90	0.36	22.11	0.163	38.45	-16.34	24.26	0.267	40.61	-16.35
846.50	5	64-QAM	1 / 24	22.90	0.36	21.11	0.129	38.45	-17.34	23.26	0.212	40.61	-17.35
829.00	10	QPSK	1 / 0	24.32	0.36	22.53	0.179	38.45	-15.92	24.68	0.294	40.61	-15.93
836.50	10	QPSK	1 / 49	24.41	0.36	22.62	0.183	38.45	-15.83	24.77	0.300	40.61	-15.84
844.00	10	QPSK	1 / 49	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
844.00	10	16-QAM	1 / 49	23.89	0.36	22.10	0.162	38.45	-16.35	24.25	0.266	40.61	-16.36
844.00	10	64-QAM	1 / 49	22.84	0.36	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
831.50	15	QPSK	1 / 74	24.35	0.36	22.56	0.180	38.45	-15.89	24.71	0.296	40.61	-15.90
836.50	15	QPSK	1 / 74	24.39	0.36	22.60	0.182	38.45	-15.85	24.75	0.299	40.61	-15.86
841.50	15	QPSK	1 / 74	24.50	0.36	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
841.50	15	16-QAM	1 / 74	23.95	0.36	22.16	0.164	38.45	-16.29	24.31	0.270	40.61	-16.30
841.50	15	64-QAM	1 / 74	22.92	0.36	21.13	0.130	38.45	-17.32	23.28	0.213	40.61	-17.33

Table 7-32. ERP Data (Band 26)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 267 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.49	-1.08	22.41	0.174	30.00	-7.59
1732.50	1.4	QPSK	3 / 2	23.50	-1.08	22.42	0.175	30.00	-7.58
1754.30	1.4	QPSK	1 / 0	23.47	-1.08	22.39	0.173	30.00	-7.61
1710.70	1.4	16-QAM	1 / 0	22.86	-1.08	21.78	0.151	30.00	-8.22
1710.70	1.4	64-QAM	3 / 2	21.83	-1.08	20.75	0.119	30.00	-9.25
1711.50	3	QPSK	1 / 0	23.43	-1.08	22.35	0.172	30.00	-7.65
1732.50	3	QPSK	1 / 0	23.50	-1.08	22.42	0.175	30.00	-7.58
1753.50	3	QPSK	1 / 0	23.42	-1.08	22.34	0.171	30.00	-7.66
1711.50	3	16-QAM	1 / 0	22.86	-1.08	21.78	0.151	30.00	-8.22
1711.50	3	64-QAM	1 / 14	21.77	-1.08	20.69	0.117	30.00	-9.31
1712.50	5	QPSK	1 / 0	23.50	-1.08	22.42	0.175	30.00	-7.58
1732.50	5	QPSK	1 / 0	23.46	-1.08	22.38	0.173	30.00	-7.62
1752.50	5	QPSK	1 / 0	23.40	-1.08	22.32	0.171	30.00	-7.68
1732.50	5	16-QAM	1 / 0	22.97	-1.08	21.89	0.155	30.00	-8.11
1712.50	5	64-QAM	1 / 0	21.94	-1.08	20.86	0.122	30.00	-9.14
1715.00	10	QPSK	1 / 49	23.38	-1.08	22.30	0.170	30.00	-7.70
1732.50	10	QPSK	1 / 0	23.50	-1.08	22.42	0.175	30.00	-7.58
1750.00	10	QPSK	1 / 0	23.34	-1.08	22.26	0.168	30.00	-7.74
1715.00	10	16-QAM	1 / 49	22.88	-1.08	21.80	0.151	30.00	-8.20
1715.00	10	64-QAM	1 / 49	21.88	-1.08	20.80	0.120	30.00	-9.20
1717.50	15	QPSK	1 / 74	23.46	-1.08	22.38	0.173	30.00	-7.62
1732.50	15	QPSK	1 / 0	23.50	-1.08	22.42	0.175	30.00	-7.58
1747.50	15	QPSK	1 / 0	23.45	-1.08	22.37	0.173	30.00	-7.63
1747.50	15	16-QAM	1 / 0	22.81	-1.08	21.73	0.149	30.00	-8.27
1732.50	15	64-QAM	1 / 0	21.93	-1.08	20.85	0.122	30.00	-9.15
1720.00	20	QPSK	1 / 0	23.50	-1.08	22.42	0.175	30.00	-7.58
1732.50	20	QPSK	1 / 0	23.50	-1.08	22.42	0.175	30.00	-7.58
1745.00	20	QPSK	1 / 0	23.45	-1.08	22.37	0.173	30.00	-7.63
1720.00	20	16-QAM	1 / 99	22.87	-1.08	21.79	0.151	30.00	-8.21
1745.00	20	64-QAM	1 / 99	21.94	-1.08	20.86	0.122	30.00	-9.14

Table 7-33. EIRP Data (Band 4)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 268 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	3 / 2	23.45	-1.08	22.37	0.173	30.00	-7.63
1745.00	1.4	QPSK	1 / 0	23.45	-1.08	22.37	0.173	30.00	-7.63
1779.30	1.4	QPSK	3 / 2	23.44	-1.08	22.36	0.172	30.00	-7.64
1779.30	1.4	16-QAM	1 / 0	22.93	-1.08	21.85	0.153	30.00	-8.15
1710.70	1.4	64-QAM	1 / 0	21.92	-1.08	20.84	0.121	30.00	-9.16
1711.50	3	QPSK	1 / 0	23.33	-1.08	22.25	0.168	30.00	-7.75
1745.00	3	QPSK	1 / 0	23.42	-1.08	22.34	0.171	30.00	-7.66
1778.50	3	QPSK	1 / 14	23.48	-1.08	22.40	0.174	30.00	-7.60
1778.50	3	16-QAM	1 / 14	22.76	-1.08	21.68	0.147	30.00	-8.32
1711.50	3	64-QAM	1 / 0	21.77	-1.08	20.69	0.117	30.00	-9.31
1712.50	5	QPSK	1 / 0	23.54	-1.08	22.46	0.176	30.00	-7.54
1745.00	5	QPSK	1 / 0	23.40	-1.08	22.32	0.171	30.00	-7.68
1777.50	5	QPSK	1 / 24	23.48	-1.08	22.40	0.174	30.00	-7.60
1777.50	5	16-QAM	1 / 24	22.86	-1.08	21.78	0.151	30.00	-8.22
1777.50	5	64-QAM	1 / 24	21.97	-1.08	20.89	0.123	30.00	-9.11
1715.00	10	QPSK	1 / 49	23.45	-1.08	22.37	0.173	30.00	-7.63
1745.00	10	QPSK	1 / 0	23.48	-1.08	22.40	0.174	30.00	-7.60
1775.00	10	QPSK	1 / 49	23.50	-1.08	22.42	0.175	30.00	-7.58
1775.00	10	16-QAM	1 / 49	22.81	-1.08	21.73	0.149	30.00	-8.27
1715.00	10	64-QAM	1 / 49	21.86	-1.08	20.78	0.120	30.00	-9.22
1717.50	15	QPSK	1 / 74	23.47	-1.08	22.39	0.173	30.00	-7.61
1745.00	15	QPSK	1 / 0	23.45	-1.08	22.37	0.173	30.00	-7.63
1772.50	15	QPSK	1 / 0	23.50	-1.08	22.42	0.175	30.00	-7.58
1772.50	15	16-QAM	1 / 0	22.83	-1.08	21.75	0.150	30.00	-8.25
1745.00	15	64-QAM	1 / 0	21.81	-1.08	20.73	0.118	30.00	-9.27
1720.00	20	QPSK	1 / 99	23.50	-1.08	22.42	0.175	30.00	-7.58
1745.00	20	QPSK	1 / 0	23.36	-1.08	22.28	0.169	30.00	-7.72
1770.00	20	QPSK	1 / 99	23.48	-1.08	22.40	0.174	30.00	-7.60
1720.00	20	16-QAM	1 / 99	22.81	-1.08	21.73	0.149	30.00	-8.27
1770.00	20	64-QAM	1 / 99	22.06	-1.08	20.98	0.125	30.00	-9.02

Table 7-34. EIRP Data (Band 66)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 269 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	3 / 2	23.49	-0.61	22.88	0.194	33.01	-10.13
1880.00	1.4	QPSK	1 / 0	23.50	-0.61	22.89	0.195	33.01	-10.12
1909.30	1.4	QPSK	3 / 2	23.48	-0.61	22.87	0.194	33.01	-10.14
1850.70	1.4	16-QAM	1 / 0	22.87	-0.61	22.26	0.168	33.01	-10.75
1850.70	1.4	64-QAM	1 / 5	22.03	-0.61	21.42	0.139	33.01	-11.59
1851.50	3	QPSK	1 / 14	23.49	-0.61	22.88	0.194	33.01	-10.13
1880.00	3	QPSK	1 / 14	23.39	-0.61	22.78	0.190	33.01	-10.23
1908.50	3	QPSK	1 / 14	23.38	-0.61	22.77	0.189	33.01	-10.24
1851.50	3	16-QAM	1 / 0	22.76	-0.61	22.15	0.164	33.01	-10.86
1851.50	3	64-QAM	1 / 14	21.75	-0.61	21.14	0.130	33.01	-11.87
1852.50	5	QPSK	1 / 24	23.50	-0.61	22.89	0.195	33.01	-10.12
1880.00	5	QPSK	1 / 24	23.45	-0.61	22.84	0.192	33.01	-10.17
1907.50	5	QPSK	1 / 24	23.49	-0.61	22.88	0.194	33.01	-10.13
1852.50	5	16-QAM	1 / 24	22.92	-0.61	22.31	0.170	33.01	-10.70
1852.50	5	64-QAM	1 / 24	22.06	-0.61	21.45	0.140	33.01	-11.56
1855.00	10	QPSK	1 / 49	23.50	-0.61	22.89	0.195	33.01	-10.12
1880.00	10	QPSK	1 / 0	23.40	-0.61	22.79	0.190	33.01	-10.22
1905.00	10	QPSK	1 / 49	23.50	-0.61	22.89	0.195	33.01	-10.12
1855.00	10	16-QAM	1 / 0	22.81	-0.61	22.20	0.166	33.01	-10.81
1855.00	10	64-QAM	1 / 49	21.98	-0.61	21.37	0.137	33.01	-11.64
1857.50	15	QPSK	1 / 0	23.50	-0.61	22.89	0.195	33.01	-10.12
1880.00	15	QPSK	1 / 74	23.38	-0.61	22.77	0.189	33.01	-10.24
1902.50	15	QPSK	1 / 74	23.40	-0.61	22.79	0.190	33.01	-10.22
1857.50	15	16-QAM	1 / 0	22.81	-0.61	22.20	0.166	33.01	-10.81
1857.50	15	64-QAM	1 / 0	21.90	-0.61	21.29	0.135	33.01	-11.72
1860.00	20	QPSK	1 / 0	23.50	-0.61	22.89	0.195	33.01	-10.12
1880.00	20	QPSK	1 / 99	23.39	-0.61	22.78	0.190	33.01	-10.23
1900.00	20	QPSK	1 / 0	23.49	-0.61	22.88	0.194	33.01	-10.13
1880.00	20	16-QAM	1 / 0	22.80	-0.61	22.19	0.166	33.01	-10.82
1860.00	20	64-QAM	1 / 0	22.02	-0.61	21.41	0.138	33.01	-11.60

Table 7-35. EIRP Data (Band 2)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 270 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	3 / 2	23.50	-0.61	22.89	0.195	33.01	-10.12
1882.50	1.4	QPSK	1 / 0	23.50	-0.61	22.89	0.195	33.01	-10.12
1914.30	1.4	QPSK	3 / 2	23.23	-0.61	22.62	0.183	33.01	-10.39
1850.70	1.4	16-QAM	1 / 5	22.86	-0.61	22.25	0.168	33.01	-10.76
1850.70	1.4	64-QAM	1 / 5	21.91	-0.61	21.30	0.135	33.01	-11.71
1851.50	3	QPSK	1 / 0	23.49	-0.61	22.88	0.194	33.01	-10.13
1882.50	3	QPSK	1 / 0	23.39	-0.61	22.78	0.190	33.01	-10.23
1913.50	3	QPSK	1 / 14	23.30	-0.61	22.69	0.186	33.01	-10.32
1882.50	3	16-QAM	1 / 14	22.82	-0.61	22.21	0.166	33.01	-10.80
1851.50	3	64-QAM	1 / 0	21.87	-0.61	21.26	0.134	33.01	-11.75
1852.50	5	QPSK	1 / 24	23.50	-0.61	22.89	0.195	33.01	-10.12
1882.50	5	QPSK	1 / 24	23.41	-0.61	22.80	0.191	33.01	-10.21
1912.50	5	QPSK	1 / 0	23.40	-0.61	22.79	0.190	33.01	-10.22
1852.50	5	16-QAM	1 / 24	23.00	-0.61	22.39	0.173	33.01	-10.62
1852.50	5	64-QAM	1 / 0	22.10	-0.61	21.49	0.141	33.01	-11.52
1855.00	10	QPSK	1 / 0	23.50	-0.61	22.89	0.195	33.01	-10.12
1882.50	10	QPSK	1 / 0	23.47	-0.61	22.86	0.193	33.01	-10.15
1910.00	10	QPSK	1 / 0	23.37	-0.61	22.76	0.189	33.01	-10.25
1882.50	10	16-QAM	1 / 49	22.90	-0.61	22.29	0.169	33.01	-10.72
1855.00	10	64-QAM	1 / 49	22.00	-0.61	21.39	0.138	33.01	-11.62
1857.50	15	QPSK	1 / 0	23.50	-0.61	22.89	0.195	33.01	-10.12
1882.50	15	QPSK	1 / 0	23.38	-0.61	22.77	0.189	33.01	-10.24
1907.50	15	QPSK	1 / 74	23.29	-0.61	22.68	0.185	33.01	-10.33
1857.50	15	16-QAM	1 / 0	22.84	-0.61	22.23	0.167	33.01	-10.78
1882.50	15	64-QAM	1 / 74	21.90	-0.61	21.29	0.135	33.01	-11.72
1860.00	20	QPSK	1 / 0	23.50	-0.61	22.89	0.195	33.01	-10.12
1882.50	20	QPSK	1 / 99	23.48	-0.61	22.87	0.194	33.01	-10.14
1905.00	20	QPSK	1 / 99	23.48	-0.61	22.87	0.194	33.01	-10.14
1860.00	20	16-QAM	1 / 0	22.97	-0.61	22.36	0.172	33.01	-10.65
1860.00	20	64-QAM	1 / 0	21.98	-0.61	21.37	0.137	33.01	-11.64

Table 7-36. EIRP Data (Band 25)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 271 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 0	23.15	0.15	23.30	0.214	33.01	-9.71
2535.00	5	QPSK	1 / 24	23.23	0.56	23.79	0.239	33.01	-9.22
2567.50	5	QPSK	1 / 24	23.25	0.56	23.81	0.240	33.01	-9.20
2567.50	5	16-QAM	1 / 24	22.67	0.56	23.23	0.210	33.01	-9.78
2567.50	5	64-QAM	1 / 24	21.72	0.56	22.28	0.169	33.01	-10.73
2505.00	10	QPSK	1 / 0	23.20	0.15	23.35	0.216	33.01	-9.66
2535.00	10	QPSK	1 / 0	23.25	0.56	23.81	0.240	33.01	-9.20
2565.00	10	QPSK	1 / 49	23.21	0.56	23.77	0.238	33.01	-9.24
2535.00	10	16-QAM	1 / 0	22.70	0.56	23.26	0.212	33.01	-9.75
2535.00	10	64-QAM	1 / 0	21.60	0.56	22.16	0.164	33.01	-10.85
2507.50	15	QPSK	1 / 74	23.25	0.15	23.40	0.219	33.01	-9.61
2535.00	15	QPSK	1 / 0	23.21	0.56	23.77	0.238	33.01	-9.24
2562.50	15	QPSK	1 / 74	23.15	0.56	23.71	0.235	33.01	-9.30
2535.00	15	16-QAM	1 / 0	22.60	0.56	23.16	0.207	33.01	-9.85
2535.00	15	64-QAM	1 / 0	21.58	0.56	22.14	0.164	33.01	-10.87
2510.00	20	QPSK	1 / 99	23.25	0.15	23.40	0.219	33.01	-9.61
2535.00	20	QPSK	1 / 0	23.24	0.56	23.80	0.240	33.01	-9.21
2560.00	20	QPSK	1 / 99	23.08	0.56	23.64	0.231	33.01	-9.37
2535.00	20	16-QAM	1 / 0	22.66	0.56	23.22	0.210	33.01	-9.79
2560.00	20	64-QAM	1 / 99	21.55	0.56	22.11	0.163	33.01	-10.90

Table 7-37. EIRP Data (Band 7)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 272 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	24.75	0.15	24.90	0.309	33.01	-8.11
2593.00	5	QPSK	1 / 0	24.66	0.56	25.22	0.333	33.01	-7.79
2687.50	5	QPSK	1 / 0	24.48	0.56	25.04	0.319	33.01	-7.97
2593.00	5	16-QAM	1 / 24	23.98	0.56	24.54	0.284	33.01	-8.47
2593.00	5	64-QAM	1 / 0	22.72	0.56	23.28	0.213	33.01	-9.73
2501.00	10	QPSK	1 / 0	24.75	0.15	24.90	0.309	33.01	-8.11
2593.00	10	QPSK	1 / 0	24.71	0.56	25.27	0.337	33.01	-7.74
2685.00	10	QPSK	1 / 0	24.43	0.56	24.99	0.316	33.01	-8.02
2593.00	10	16-QAM	1 / 0	23.96	0.56	24.52	0.283	33.01	-8.49
2593.00	10	64-QAM	1 / 0	22.71	0.56	23.27	0.212	33.01	-9.74
2503.50	15	QPSK	1 / 0	24.49	0.15	24.64	0.291	33.01	-8.37
2593.00	15	QPSK	1 / 74	24.57	0.56	25.13	0.326	33.01	-7.88
2682.50	15	QPSK	1 / 0	24.35	0.56	24.91	0.310	33.01	-8.10
2593.00	15	16-QAM	1 / 0	23.84	0.56	24.40	0.275	33.01	-8.61
2593.00	15	64-QAM	1 / 74	22.67	0.56	23.23	0.210	33.01	-9.78
2506.00	20	QPSK	1 / 0	24.67	0.15	24.82	0.303	33.01	-8.19
2593.00	20	QPSK	1 / 99	24.65	0.56	25.21	0.332	33.01	-7.80
2680.00	20	QPSK	1 / 0	24.36	0.56	24.92	0.310	33.01	-8.09
2593.00	20	16-QAM	1 / 0	23.83	0.56	24.39	0.275	33.01	-8.62
2593.00	20	64-QAM	1 / 99	22.81	0.56	23.37	0.217	33.01	-9.64

Table 7-38. EIRP Data (Band 41)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 273 of 338

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	23.21	0.15	23.36	0.217	23.98	-0.62
2312.50	5	QPSK	1 / 0	23.25	0.15	23.40	0.219	23.98	-0.58
2312.50	5	16-QAM	1 / 0	22.41	0.15	22.56	0.180	23.98	-1.42
2307.50	5	64-QAM	1 / 0	21.71	0.15	21.86	0.153	23.98	-2.12
2310.00	10	QPSK	1 / 49	23.25	0.15	23.40	0.219	23.98	-0.58
2310.00	10	16-QAM	1 / 0	22.51	0.15	22.66	0.185	23.98	-1.32
2310.00	10	64-QAM	1 / 0	21.60	0.15	21.75	0.150	23.98	-2.23

Table 7-39. EIRP Data (Band 30)

FCC ID: BCGA2123	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 274 of 338

7.9 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

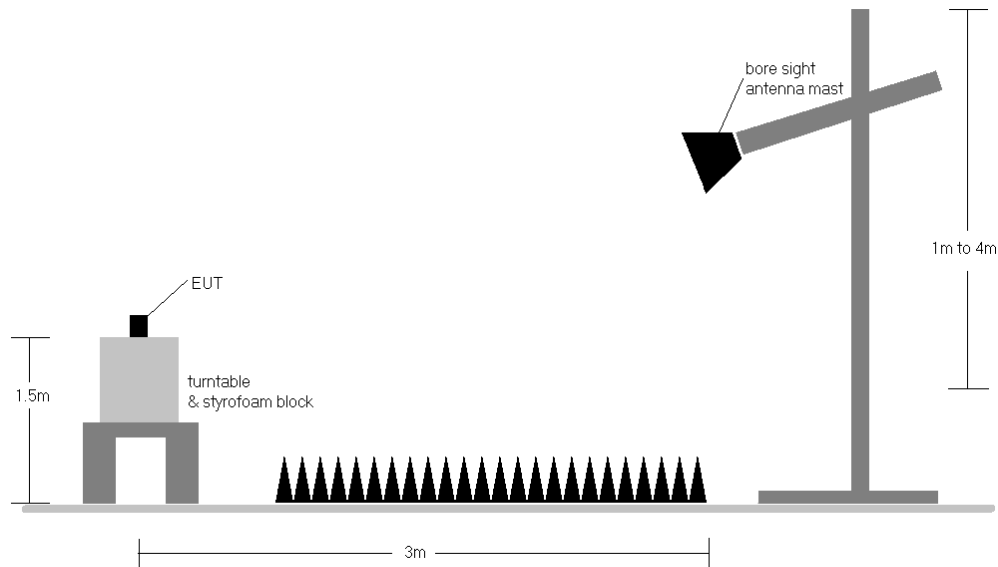


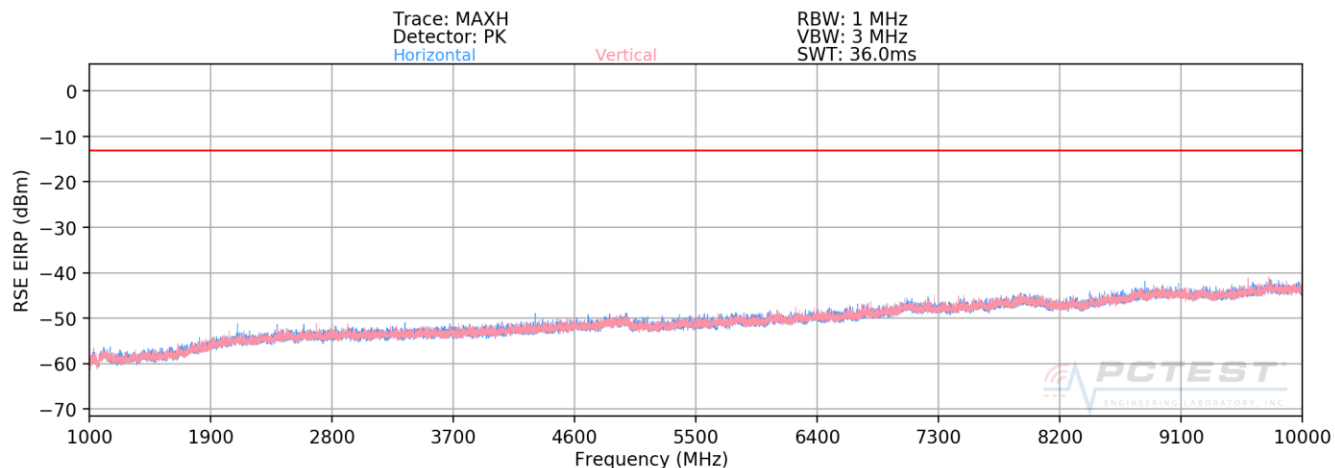
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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7.9.1 ANT WF3 (Port A) Radiated Spurious Emissions Measurements Band 12/17



Plot 7-409. Radiated Spurious Plot above 1GHz (Band 12/17)

OPERATING FREQUENCY: 704.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	-	-	-71.27	3.84	-67.44	-54.4
2112.00	H	309	227	-66.72	4.65	-62.07	-49.1
2816.00	H	-	-	-69.34	6.03	-63.31	-50.3
3520.00	H	-	-	-70.08	7.29	-62.79	-49.8

Table 7-40. Radiated Spurious Data (Band 12/17 – Low Channel)

FCC ID: BCGA2123	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1811080029-03-R1.BCG	Test Dates: 11/09/2018-02/02/2019	EUT Type: Tablet Device	Page 277 of 338