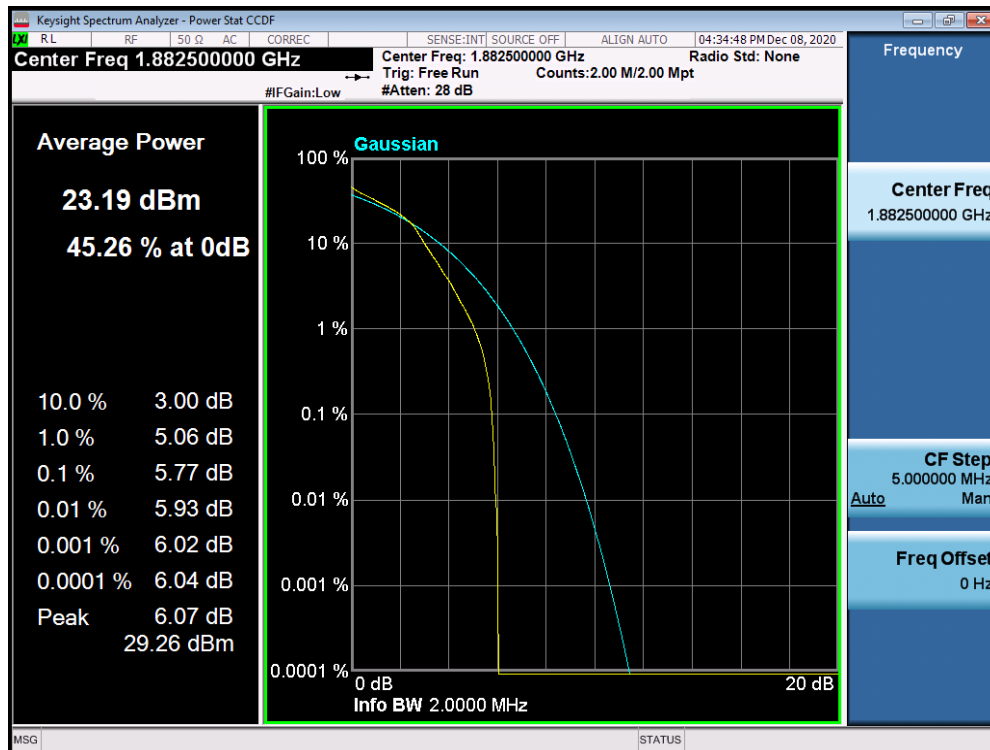
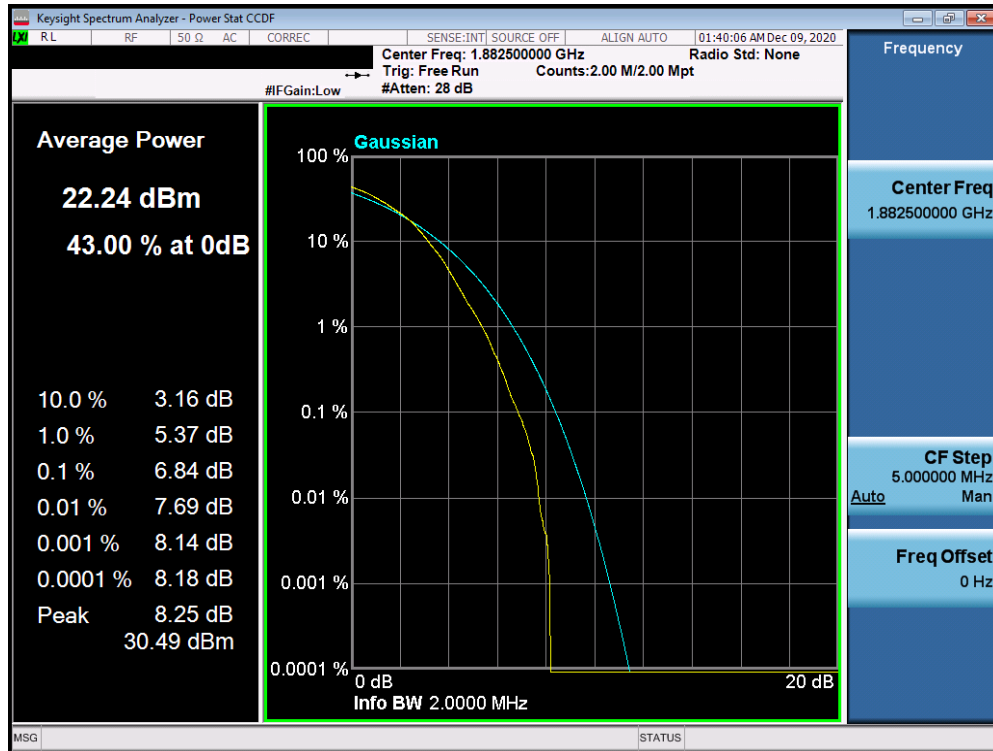


Plot 7-192. PAR Plot (LTE Band 25 - 1.4MHz QPSK - Full RB Configuration)

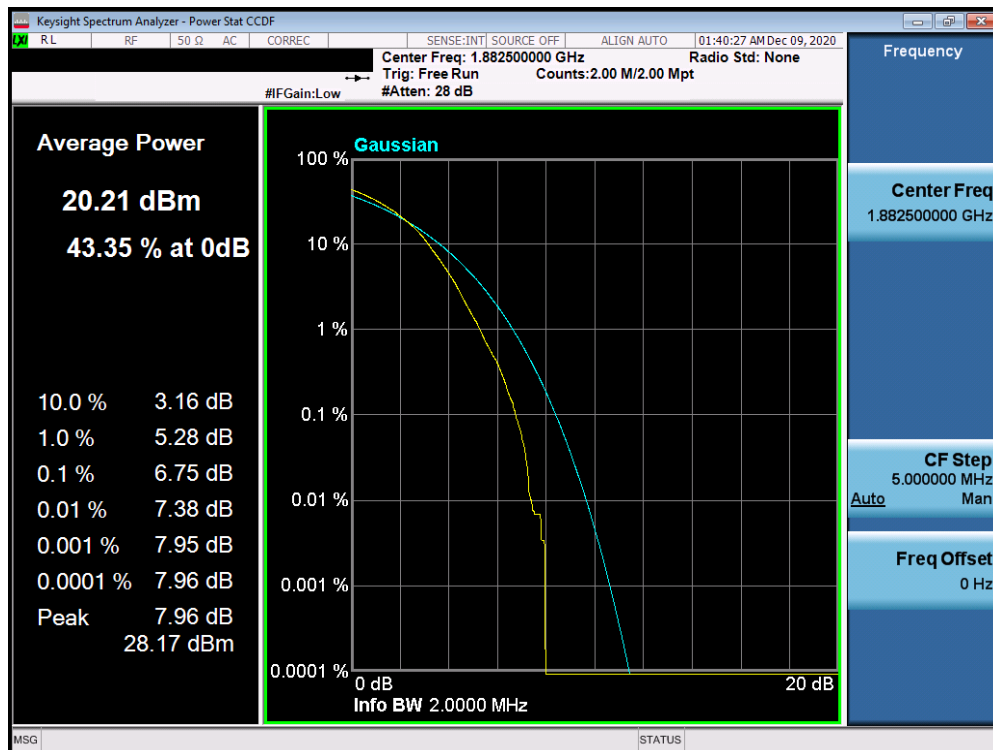


Plot 7-193. PAR Plot (LTE Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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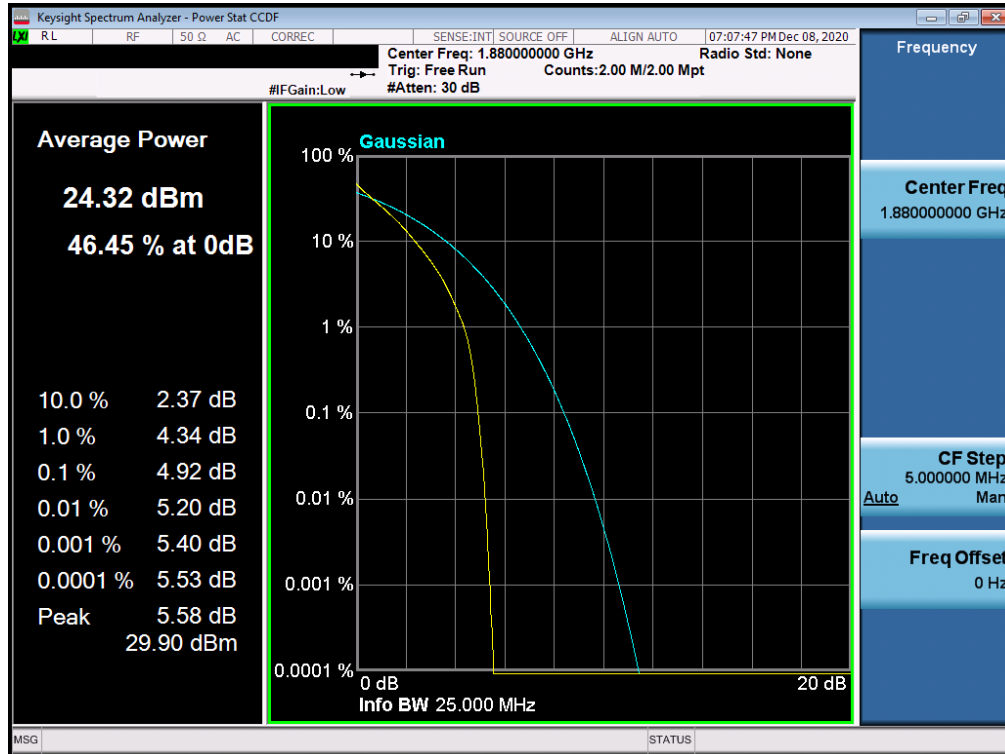
Plot 7-194. PAR Plot (LTE Band 25 - 1.4MHz 64-QAM - Full RB Configuration)



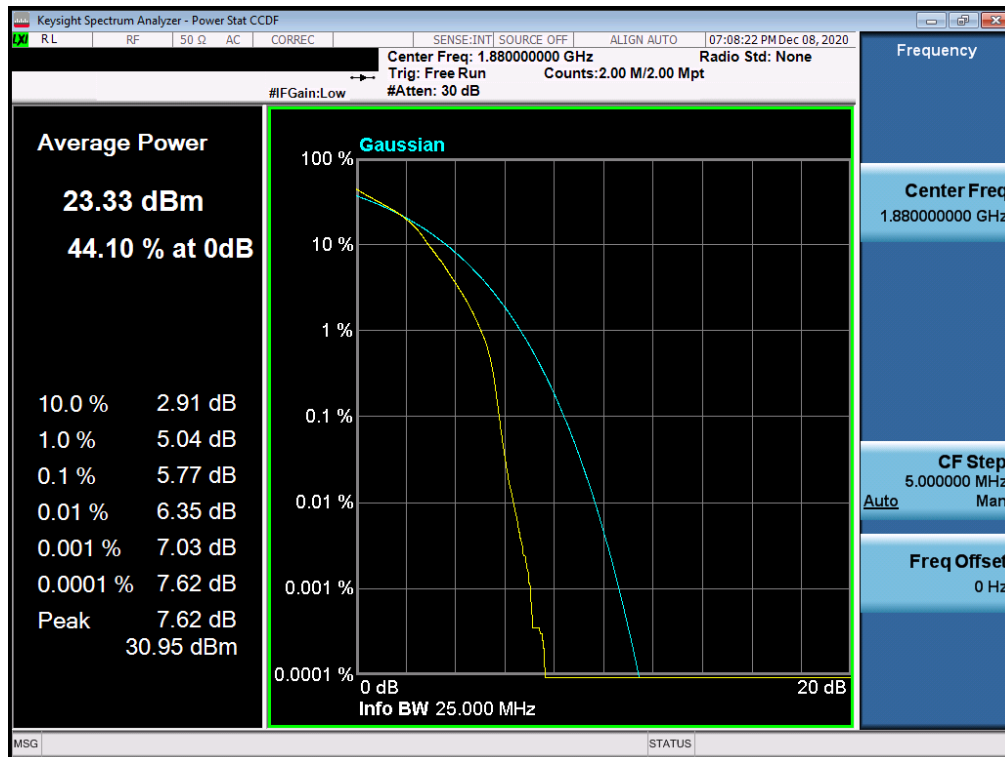
Plot 7-195. PAR Plot (LTE Band 25 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 118 of 196

LTE Band 2

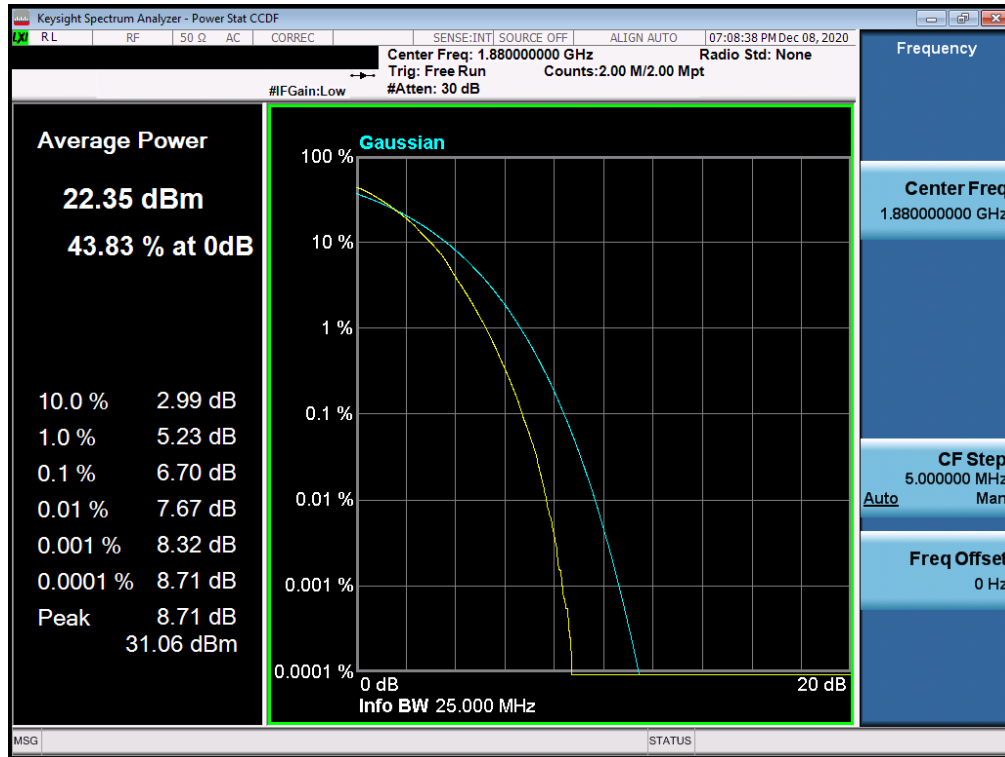


Plot 7-196. PAR Plot (LTE Band 2 - 20MHz QPSK - Full RB Configuration)

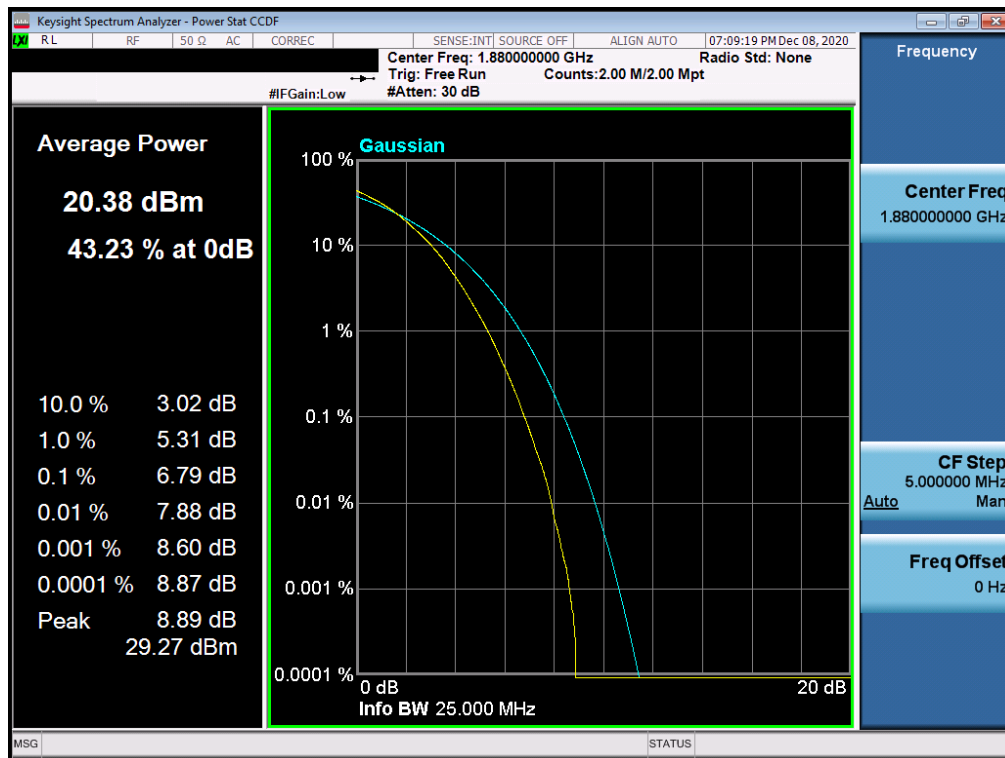


Plot 7-197. PAR Plot (LTE Band 2 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 119 of 196

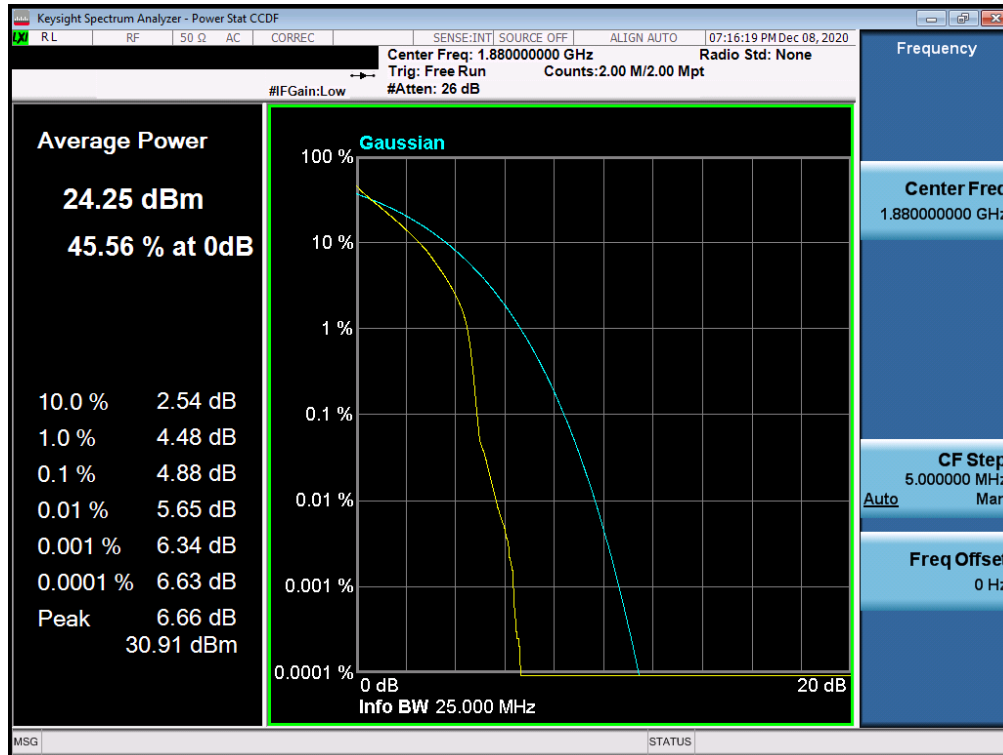


Plot 7-198. PAR Plot (LTE Band 2 - 20MHz 64-QAM - Full RB Configuration)

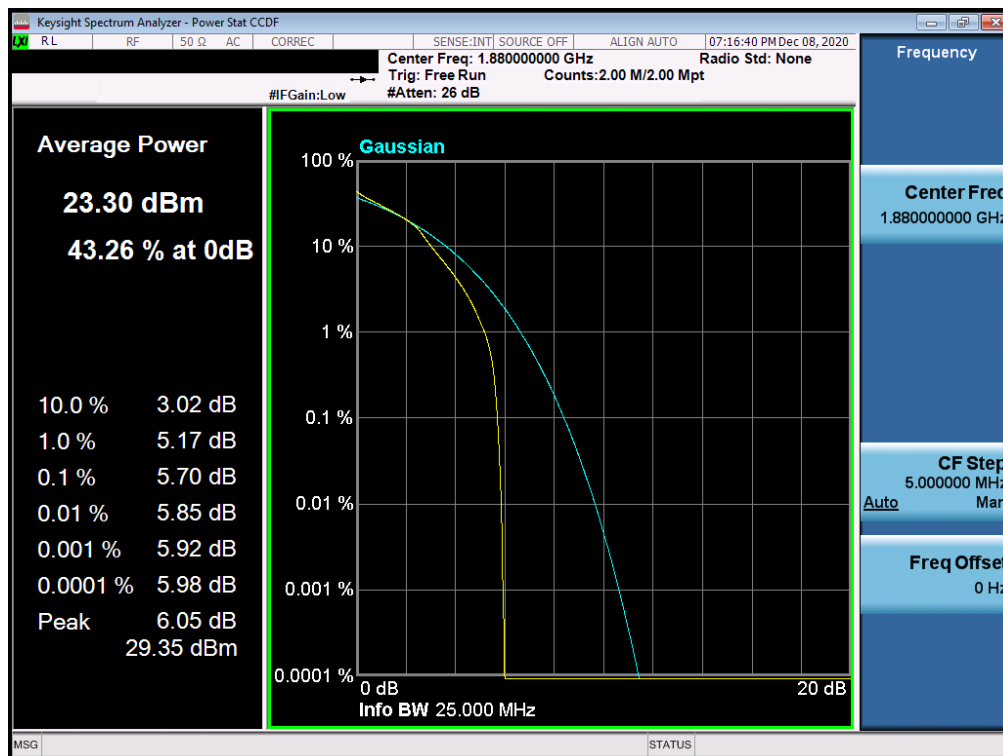


Plot 7-199. PAR Plot (LTE Band 2 - 20MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 120 of 196

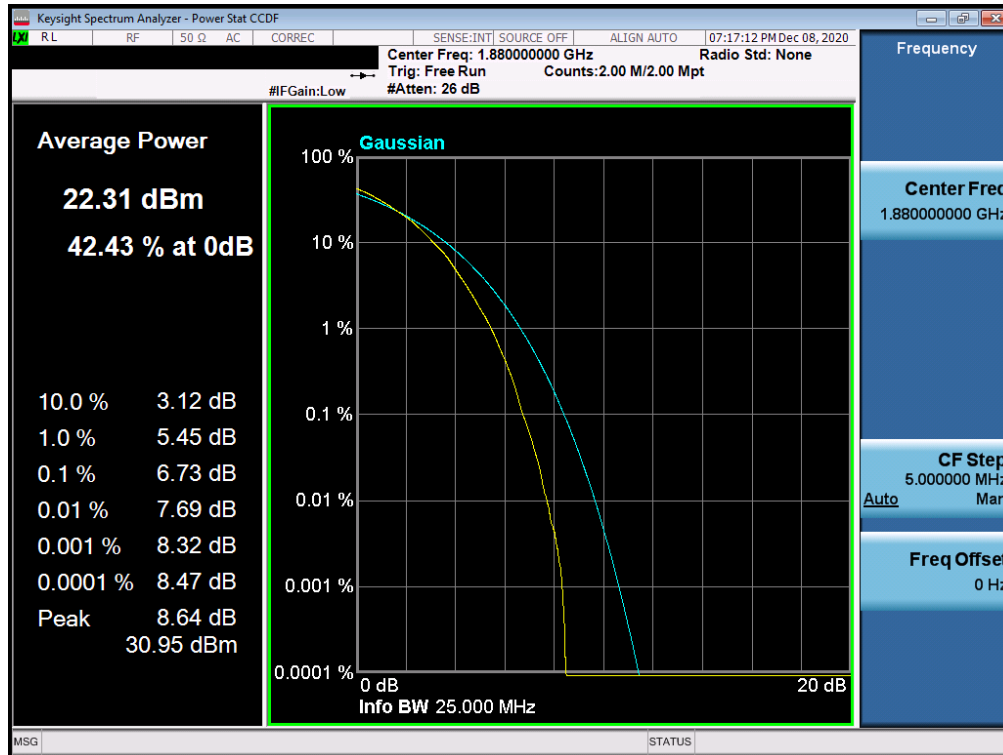


Plot 7-200. PAR Plot (LTE Band 2 - 15MHz QPSK - Full RB Configuration)

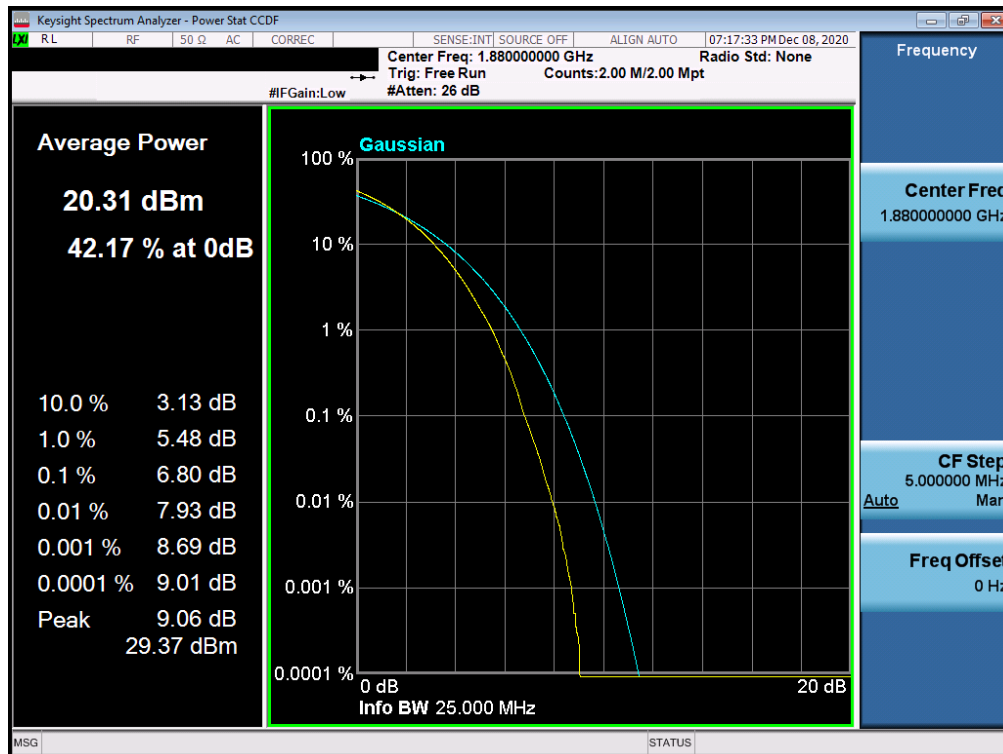


Plot 7-201. PAR Plot (LTE Band 2 - 15MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 121 of 196

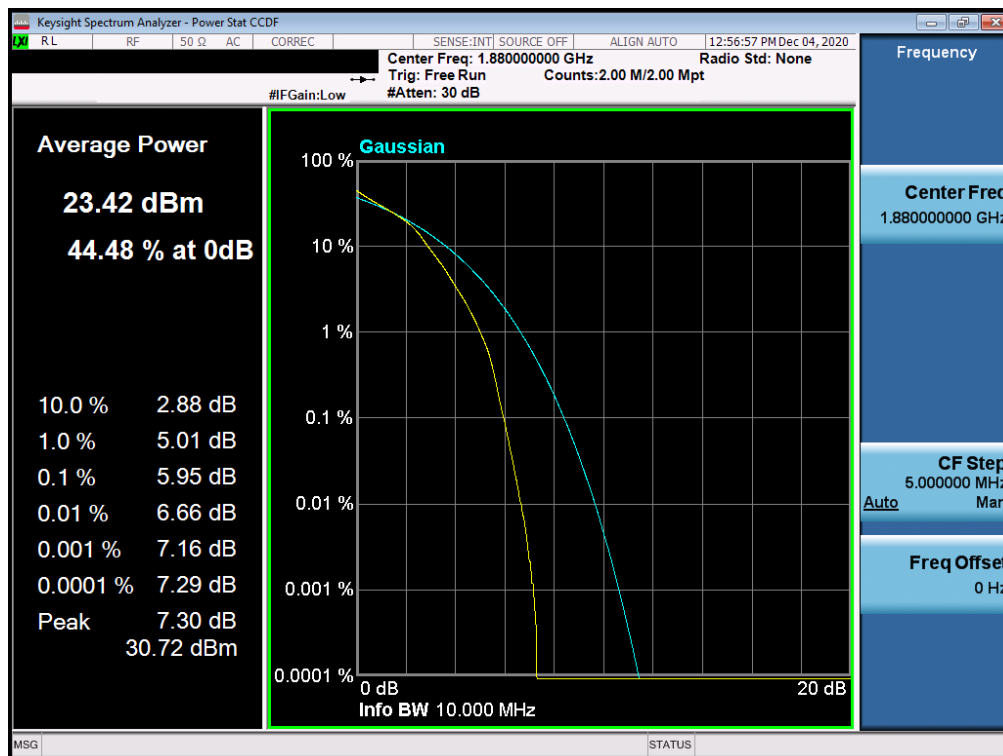
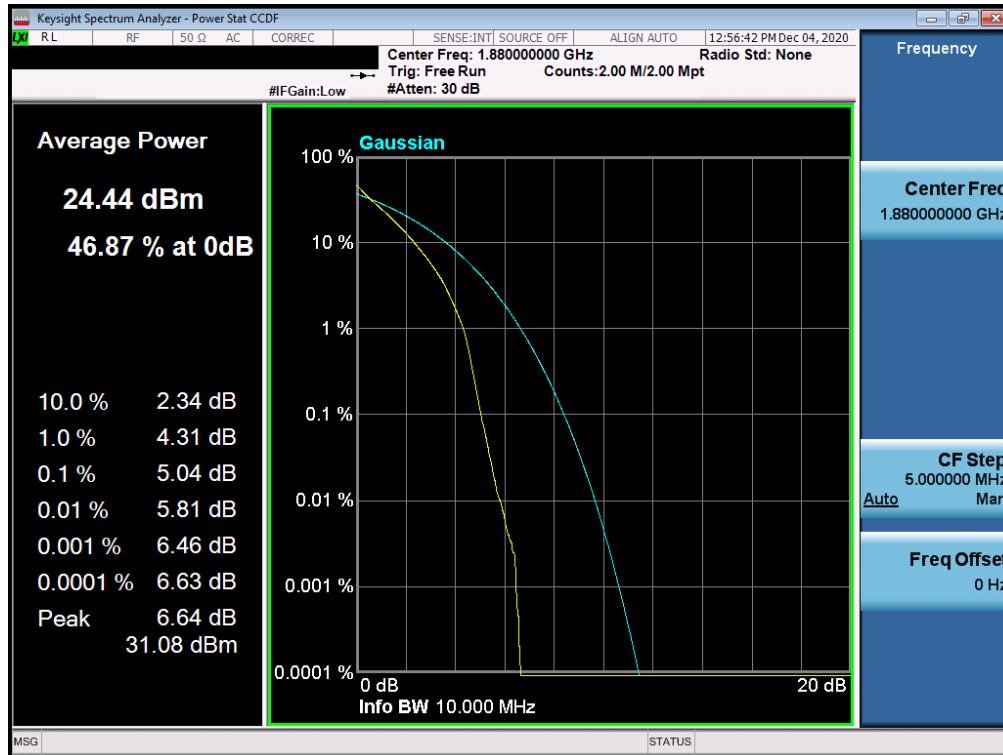


Plot 7-202. PAR Plot (LTE Band 2 - 15MHz 64-QAM - Full RB Configuration)

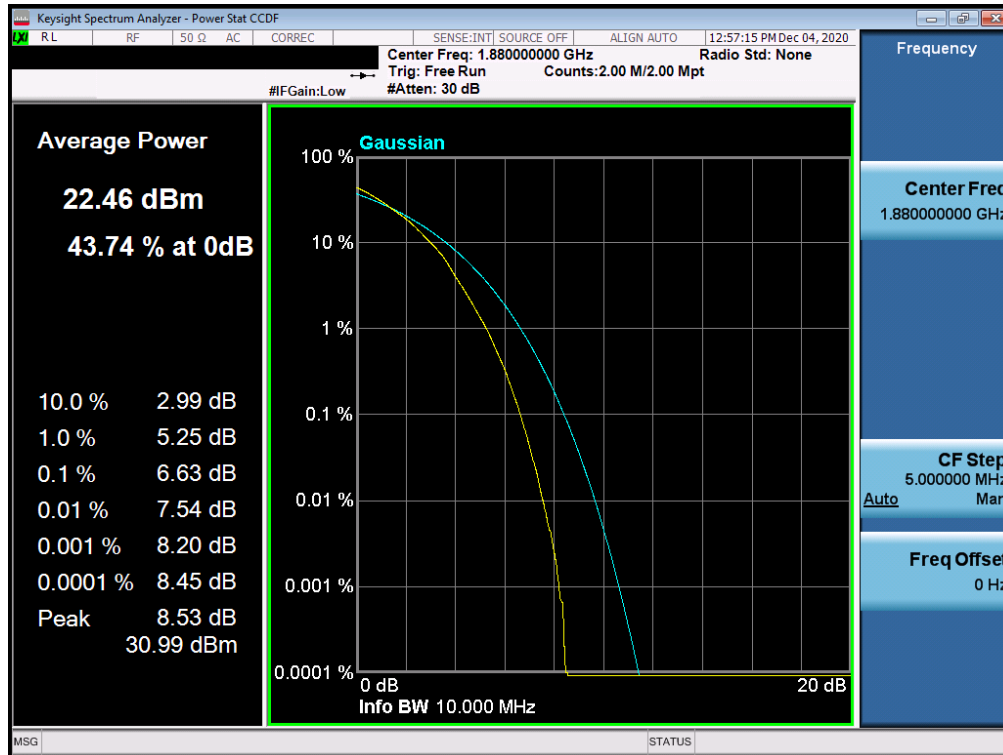


Plot 7-203. PAR Plot (LTE Band 2 - 15MHz 256-QAM - Full RB Configuration)

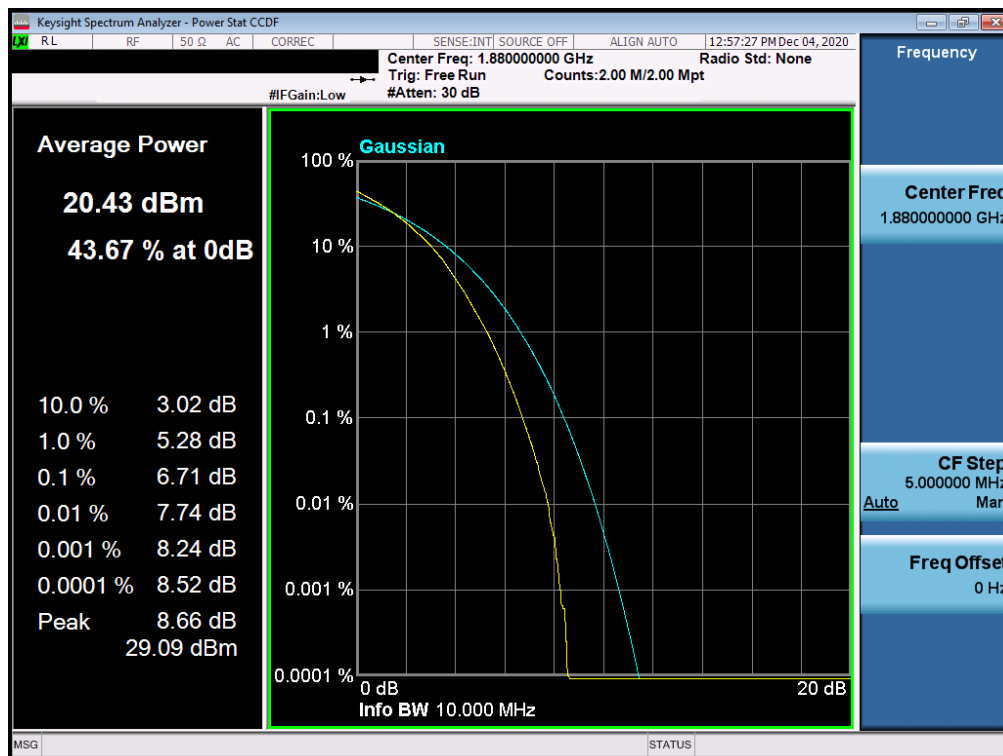
FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 122 of 196



FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 123 of 196

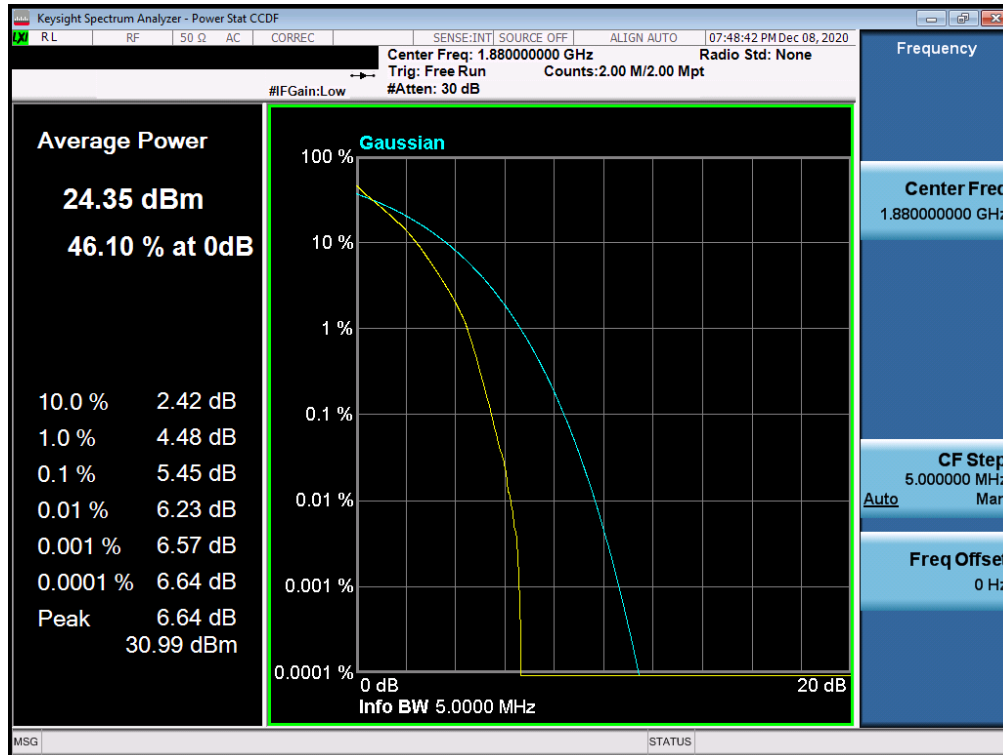


Plot 7-206. PAR Plot (LTE Band 2 - 10MHz 64-QAM - Full RB Configuration)

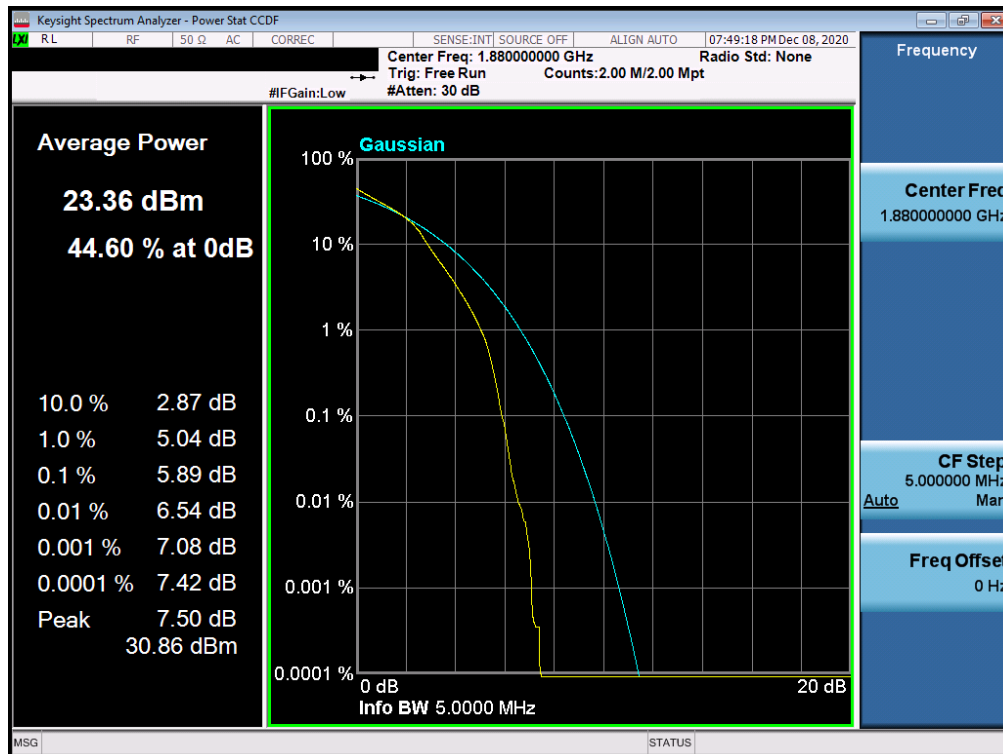


Plot 7-207. PAR Plot (LTE Band 2 - 10MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 124 of 196

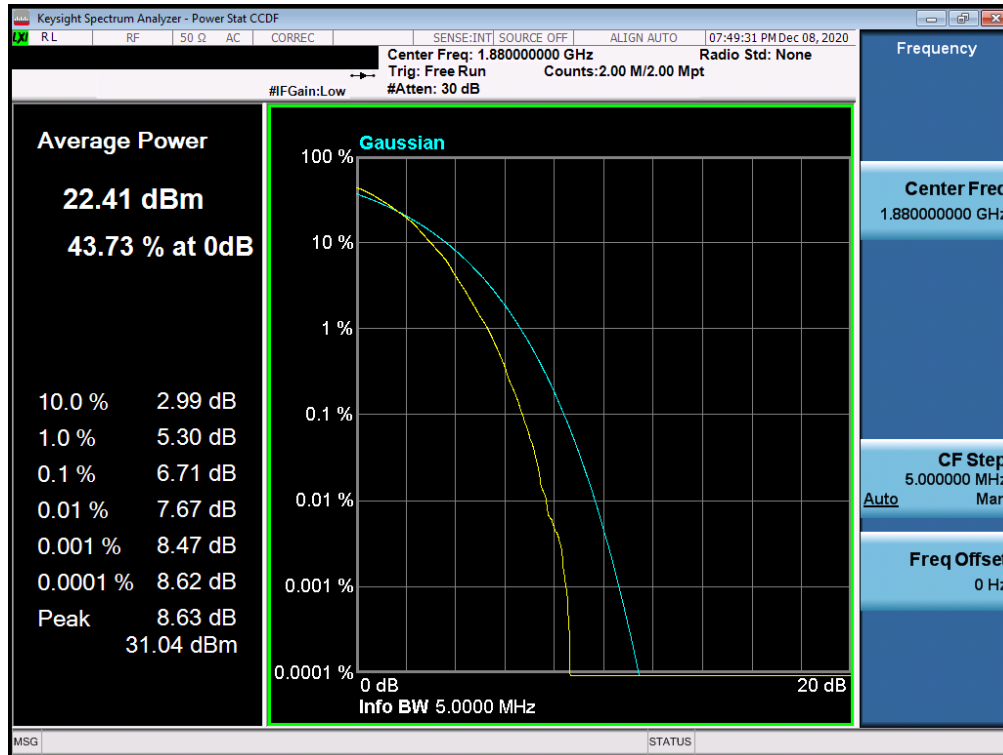


Plot 7-208. PAR Plot (LTE Band 2 - 5MHz QPSK - Full RB Configuration)

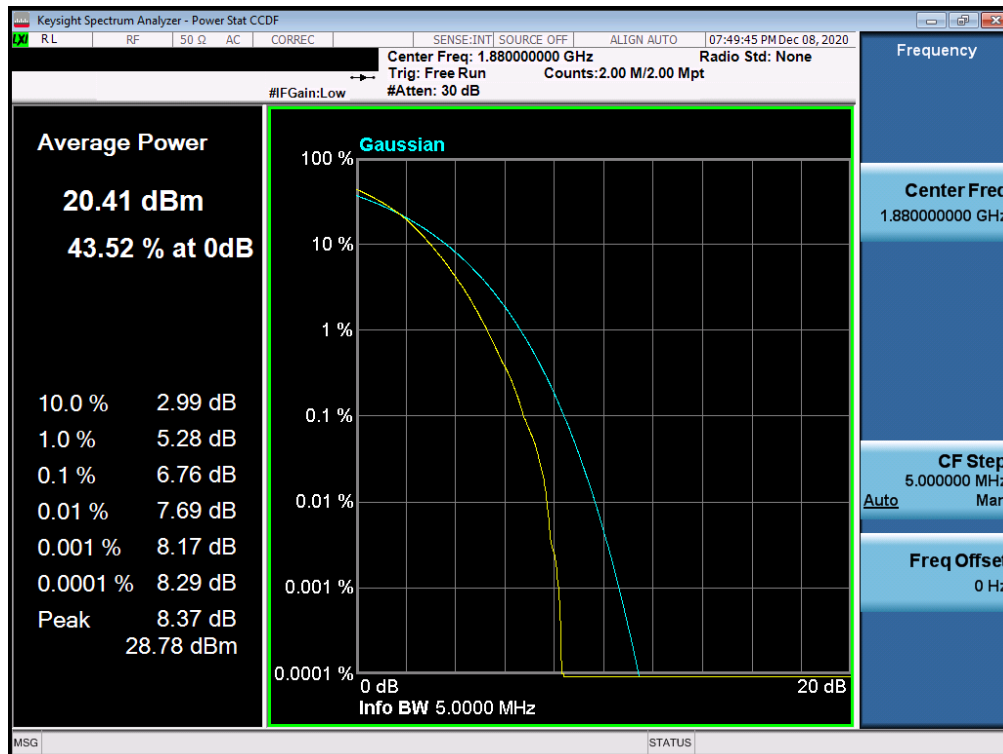


Plot 7-209. PAR Plot (LTE Band 2 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 125 of 196

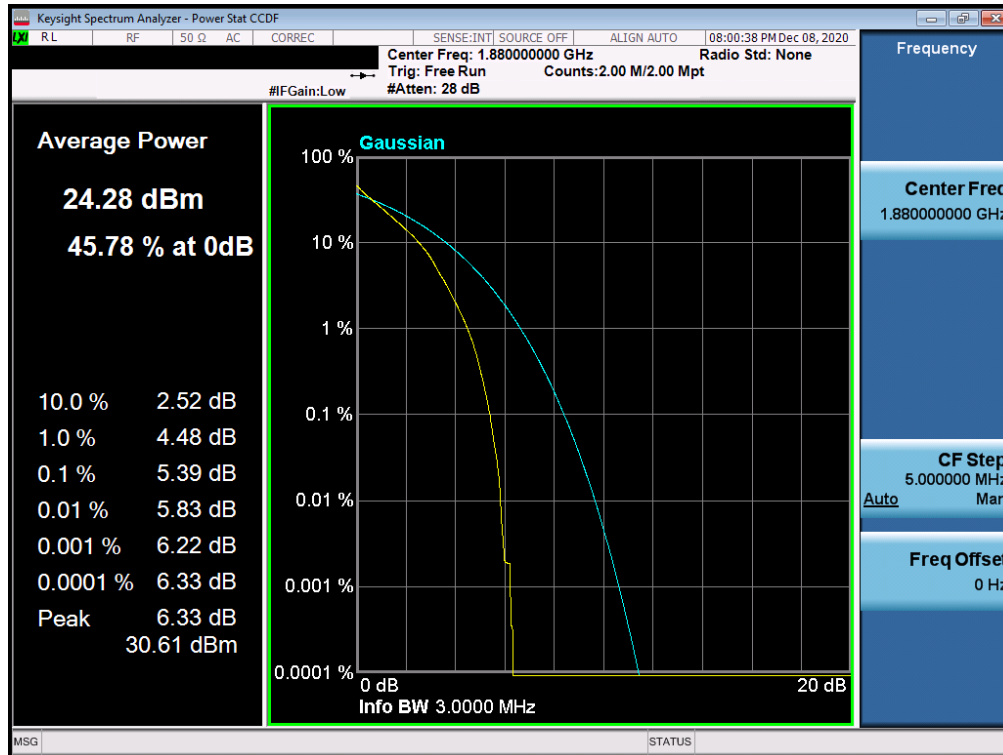


Plot 7-210. PAR Plot (LTE Band 2 - 5MHz 64-QAM - Full RB Configuration)

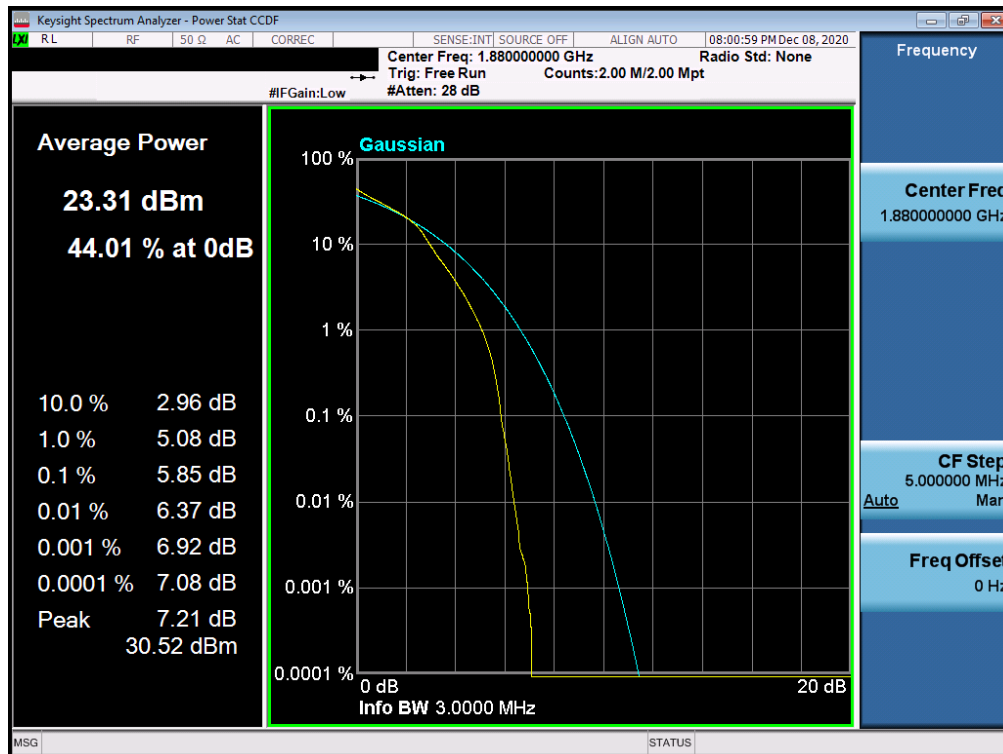


Plot 7-211. PAR Plot (LTE Band 2 - 5MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 126 of 196

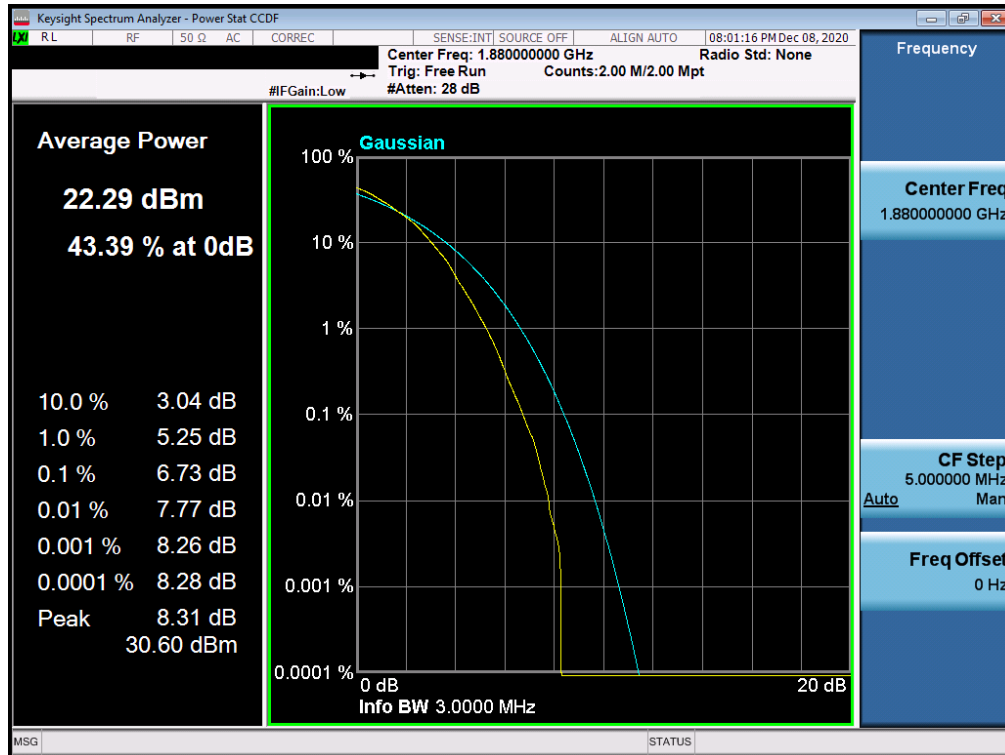


Plot 7-212. PAR Plot (LTE Band 2 - 3MHz QPSK - Full RB Configuration)

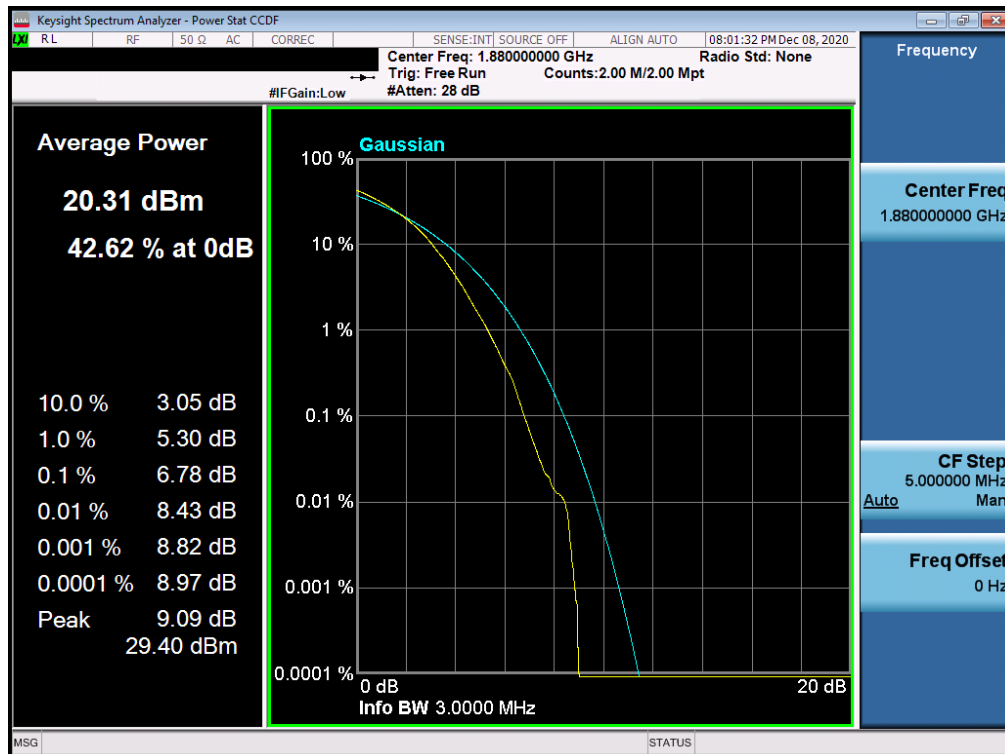


Plot 7-213. PAR Plot (LTE Band 2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 127 of 196

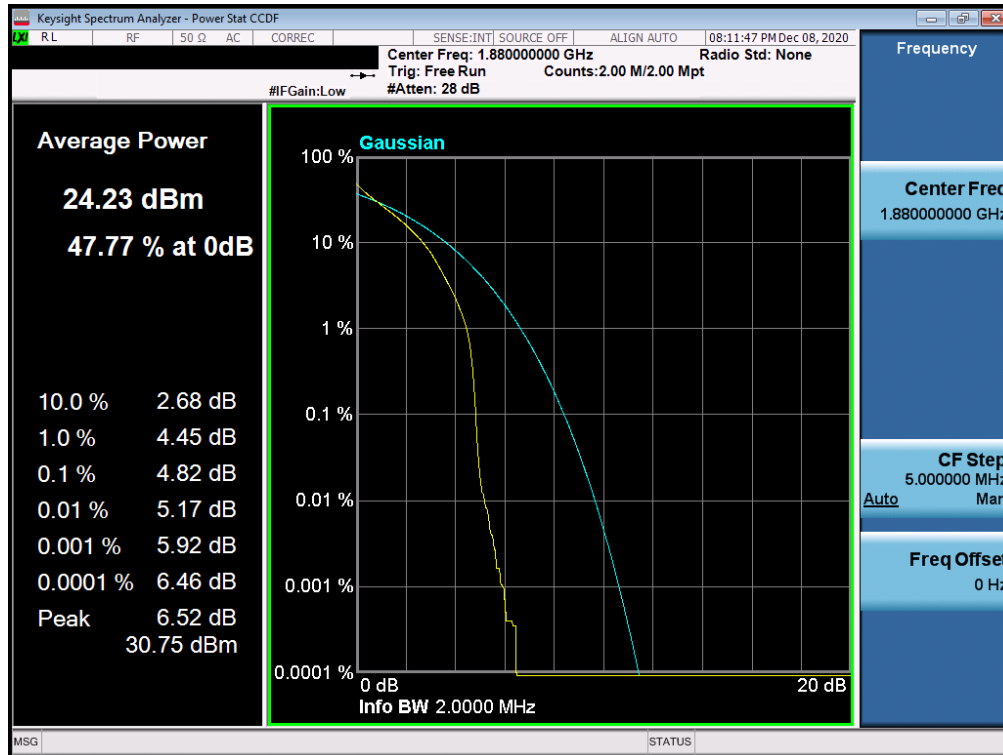


Plot 7-214. PAR Plot (LTE Band 2 - 3MHz 64-QAM - Full RB Configuration)

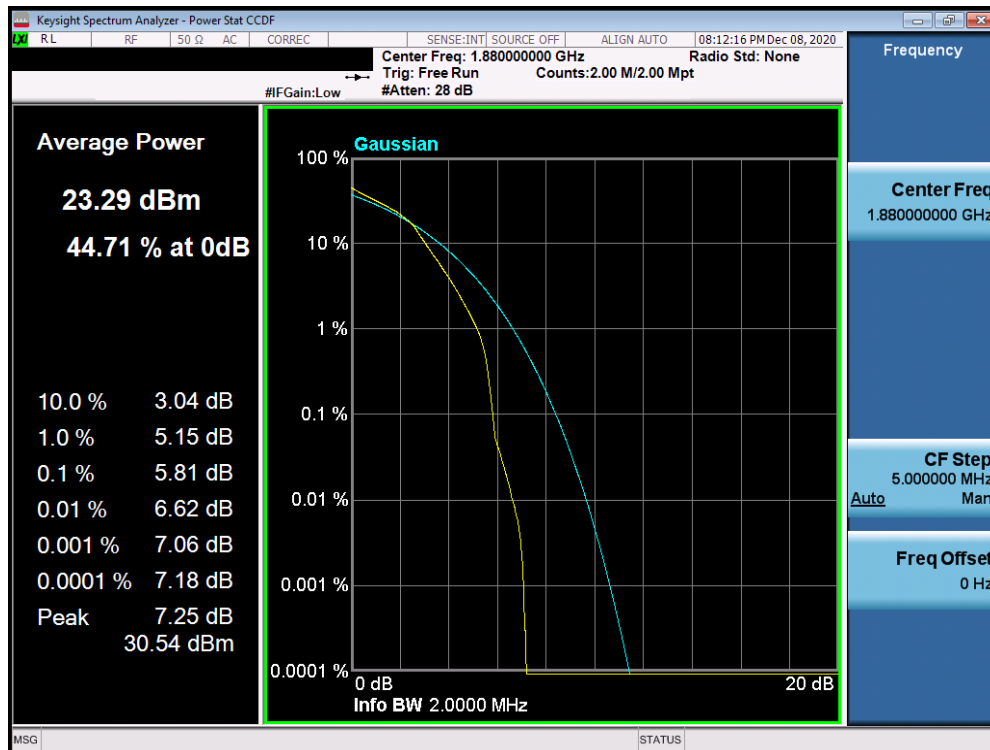


Plot 7-215. PAR Plot (LTE Band 2 - 3MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 128 of 196

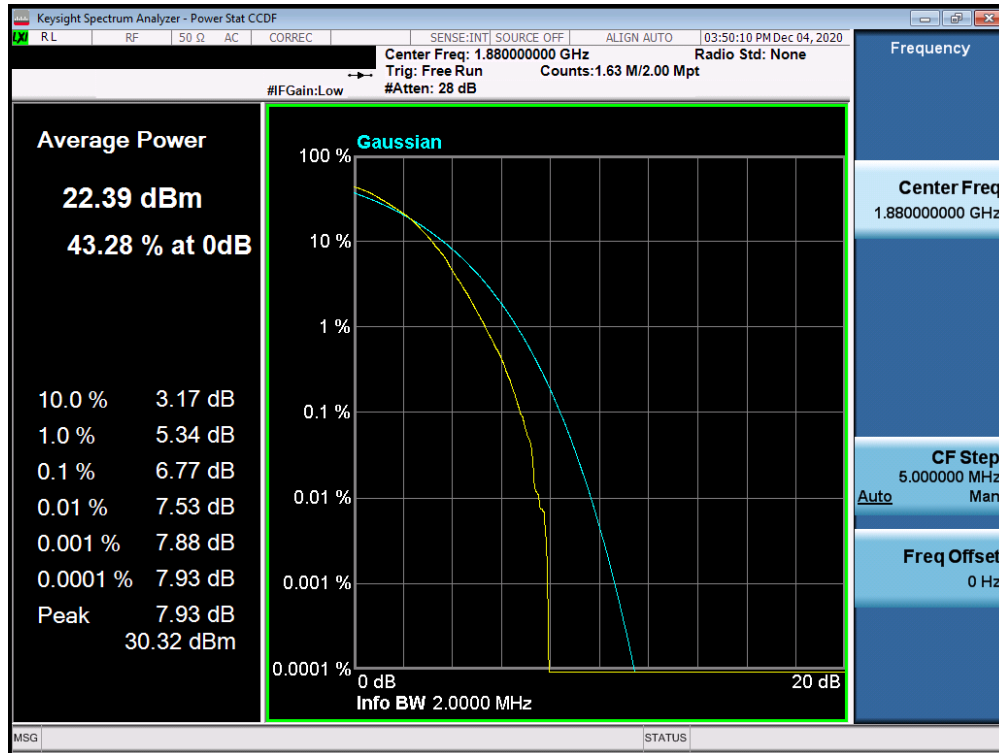


Plot 7-216. PAR Plot (LTE Band 2 - 1.4MHz QPSK - Full RB Configuration)

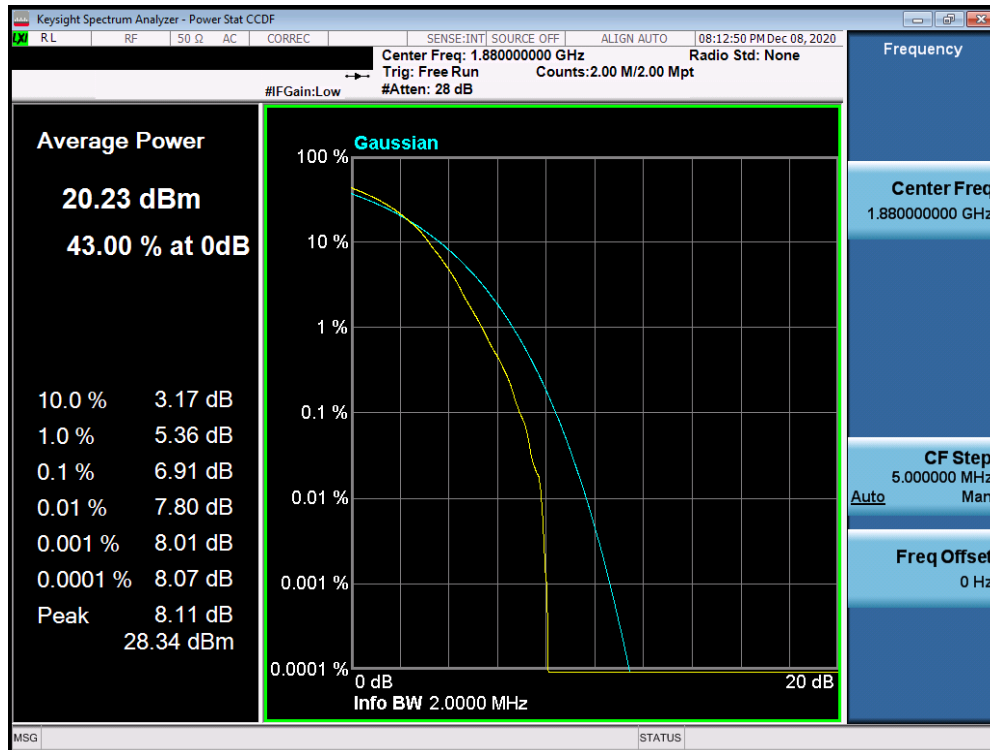


Plot 7-217. PAR Plot (LTE Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 129 of 196



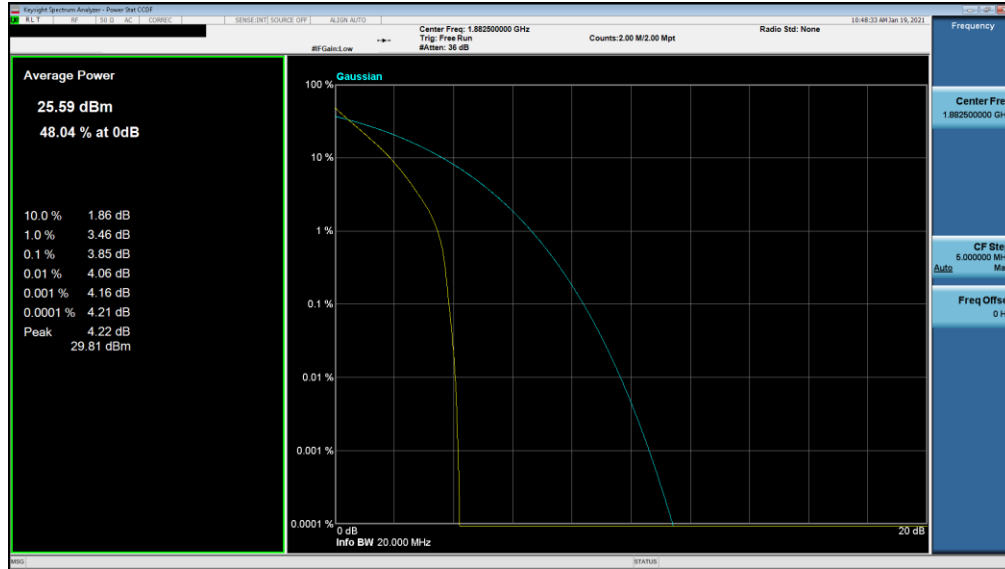
Plot 7-218. PAR Plot (LTE Band 2 - 1.4MHz 64-QAM - Full RB Configuration)



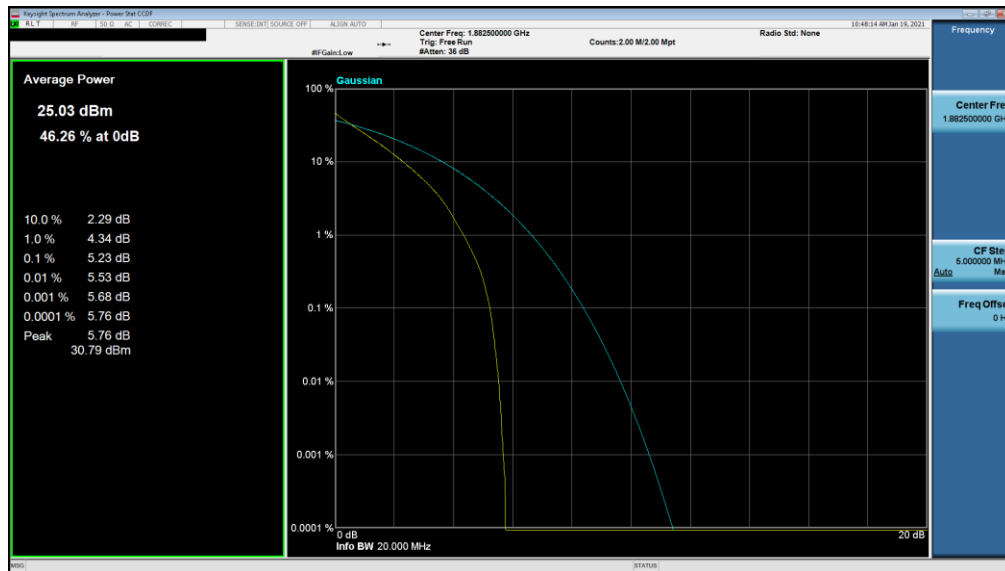
Plot 7-219. PAR Plot (LTE Band 2 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 130 of 196

NR Band n25

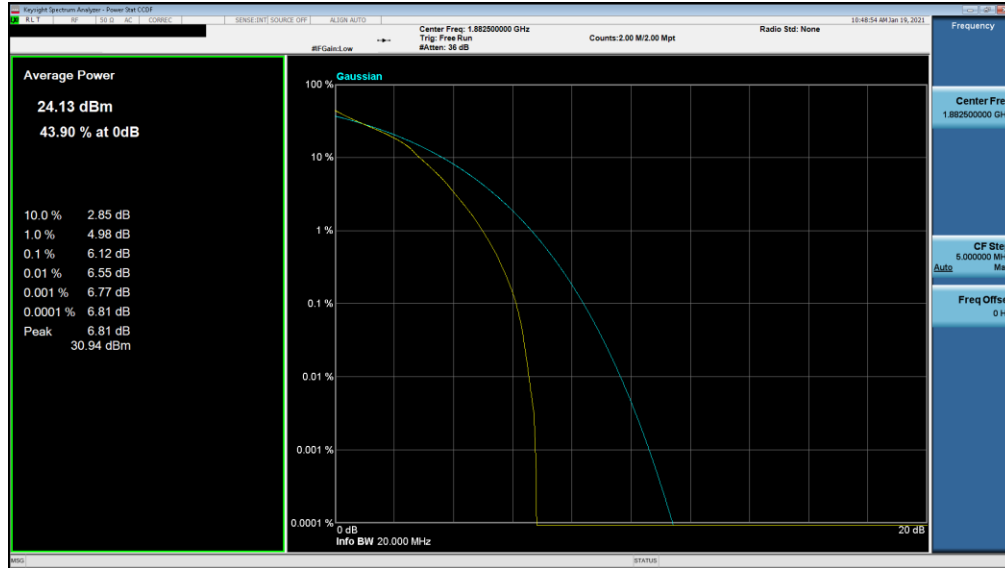


Plot 7-220. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

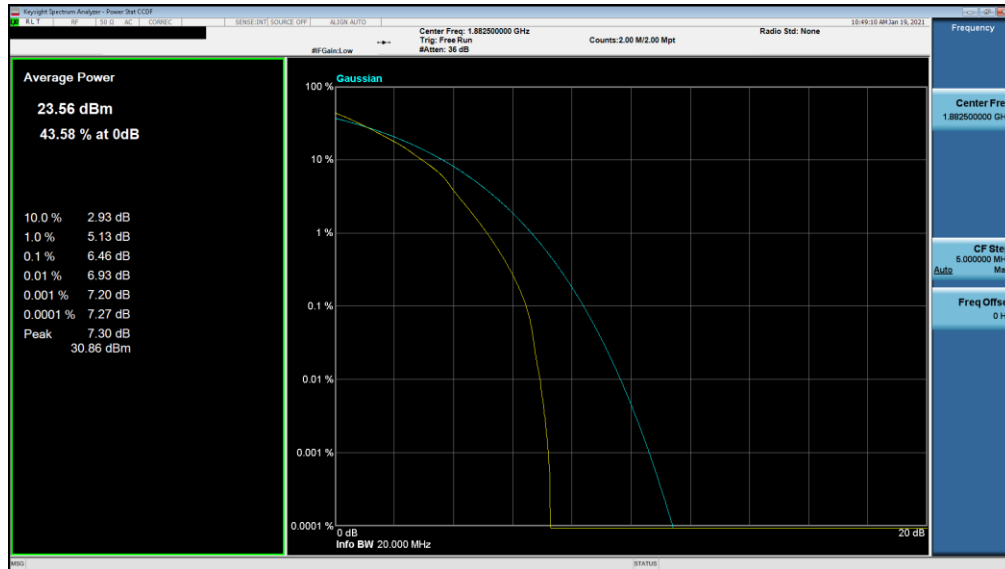


Plot 7-221. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 131 of 196

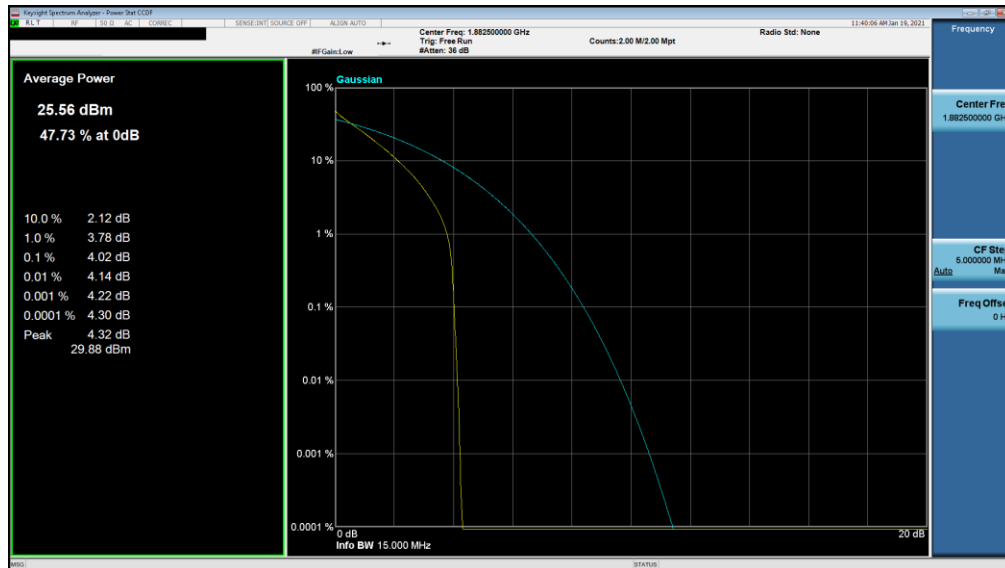
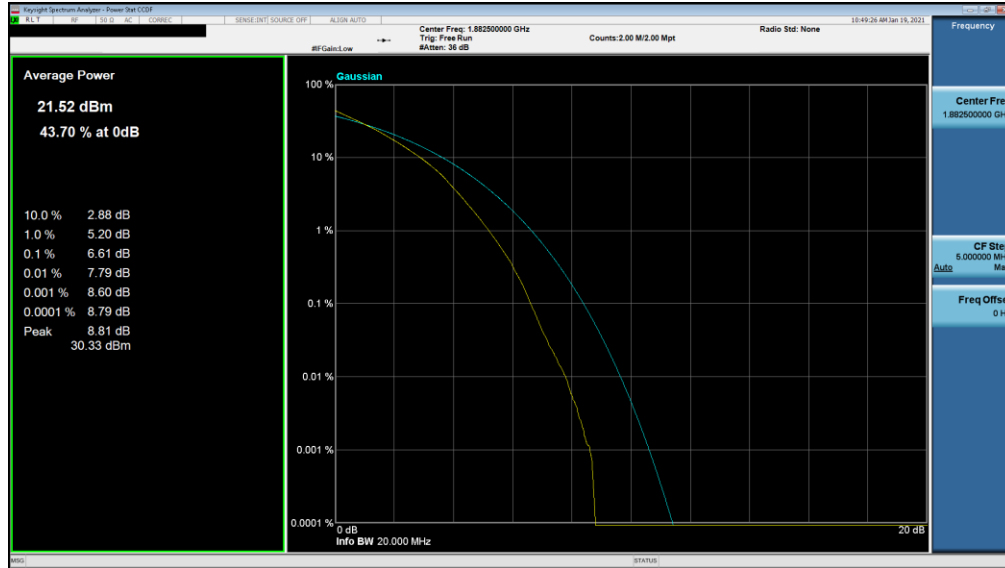


Plot 7-222. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)

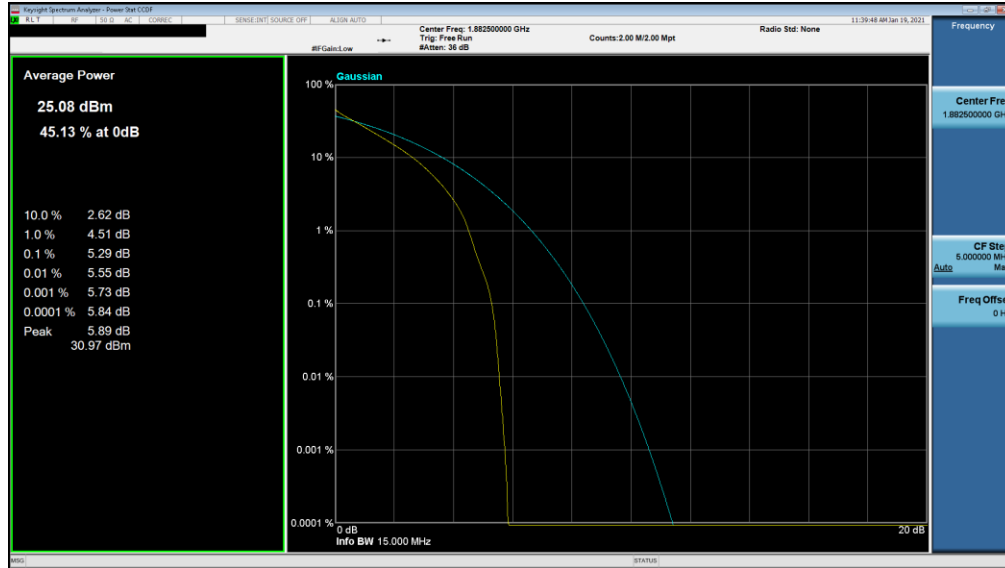


Plot 7-223. PAR Plot (NR Band n25 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

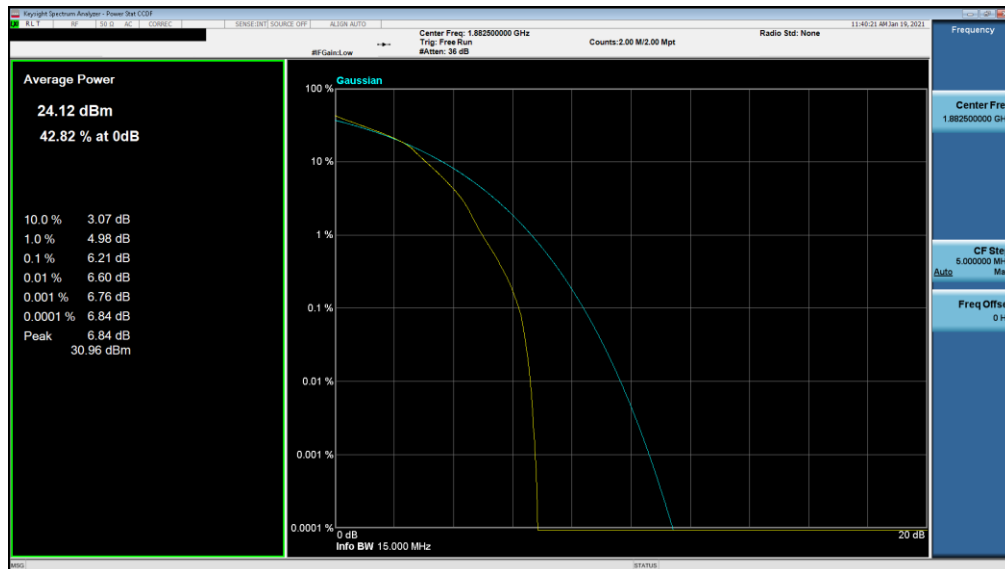
FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 132 of 196



FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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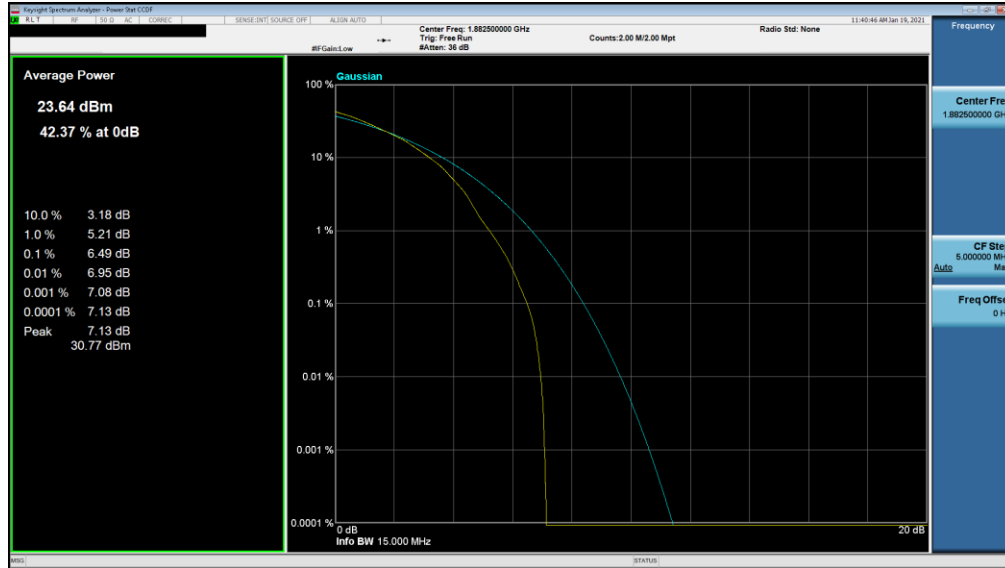


Plot 7-226. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

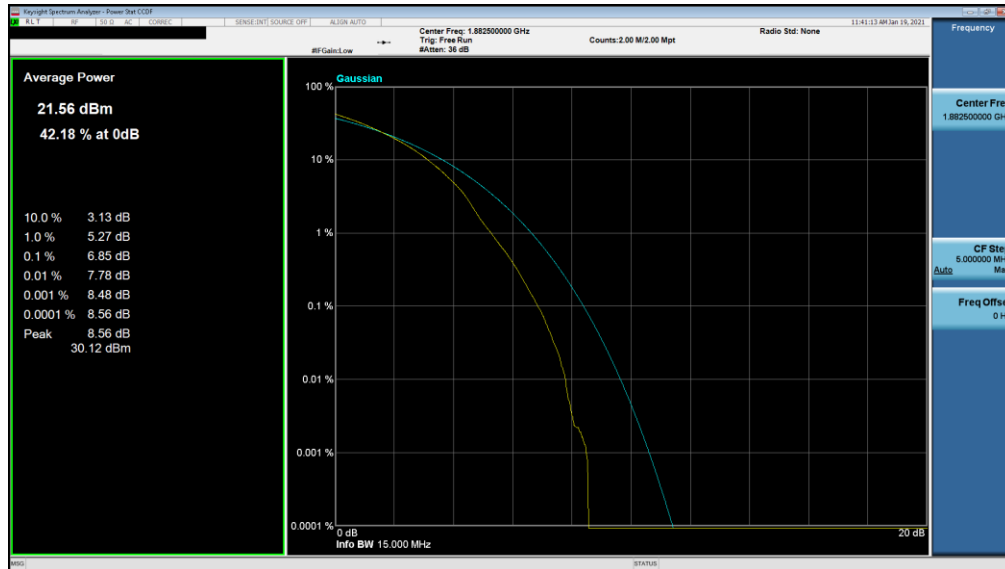


Plot 7-227. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 134 of 196

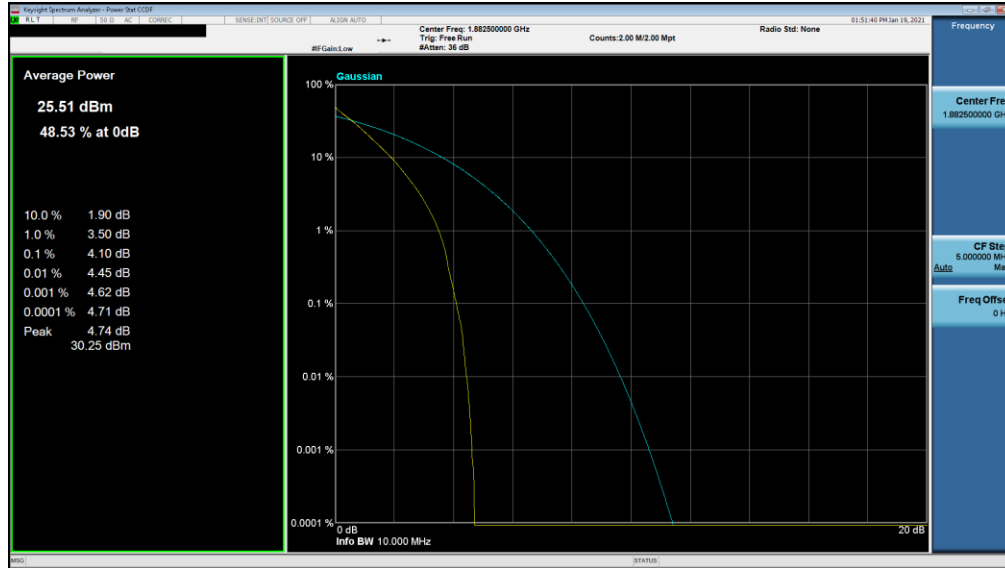


Plot 7-228. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

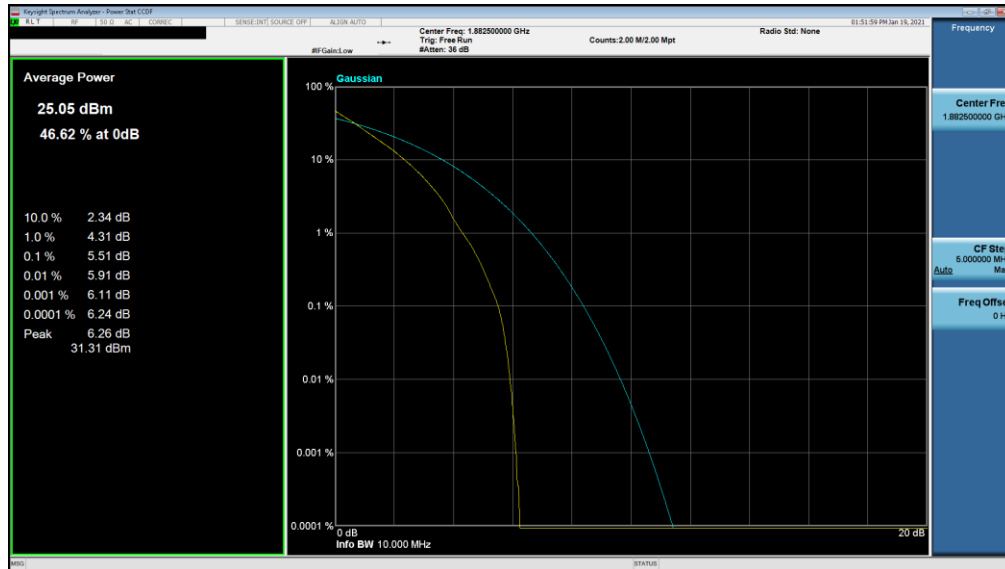


Plot 7-229. PAR Plot (NR Band n25 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 135 of 196

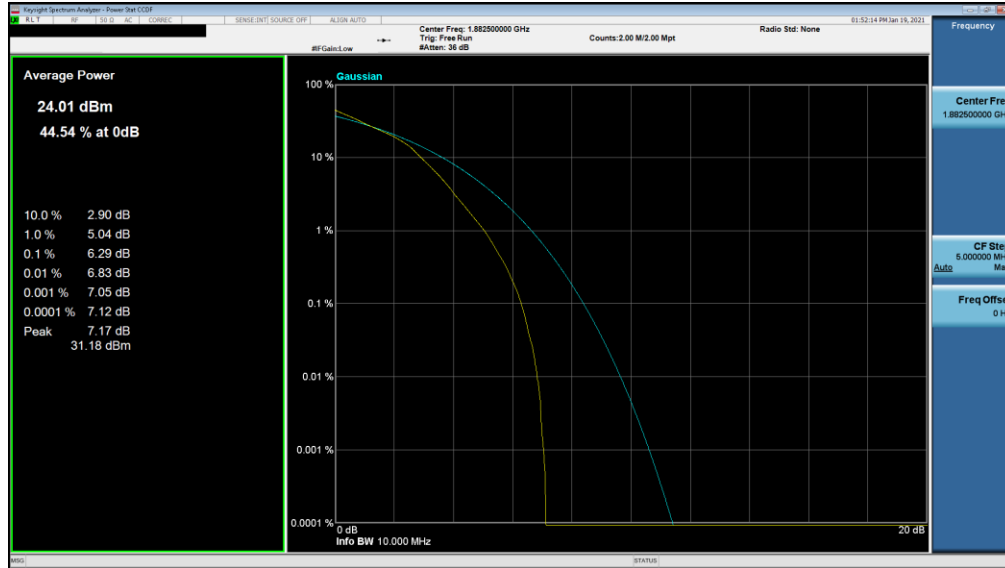


Plot 7-230. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

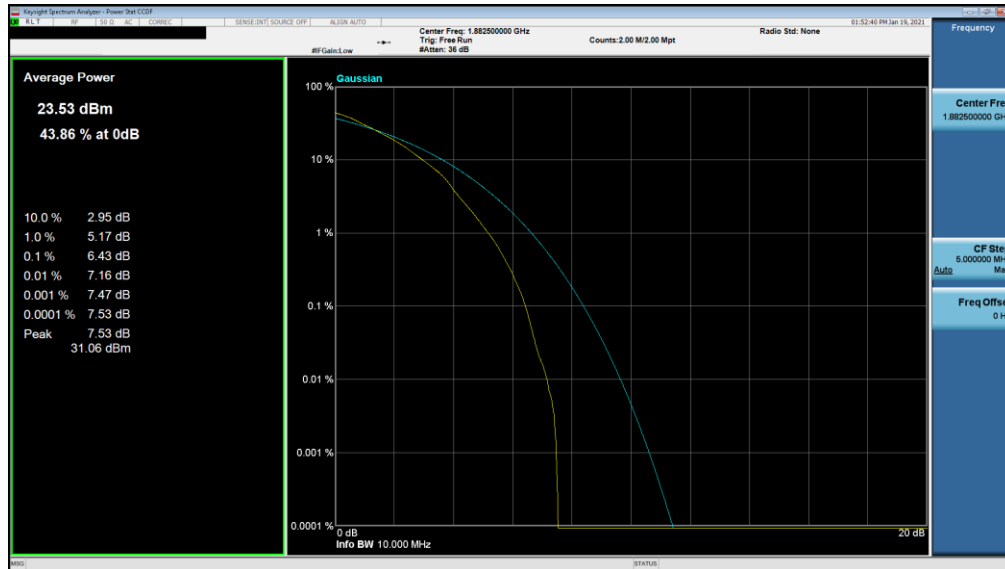


Plot 7-231. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 136 of 196

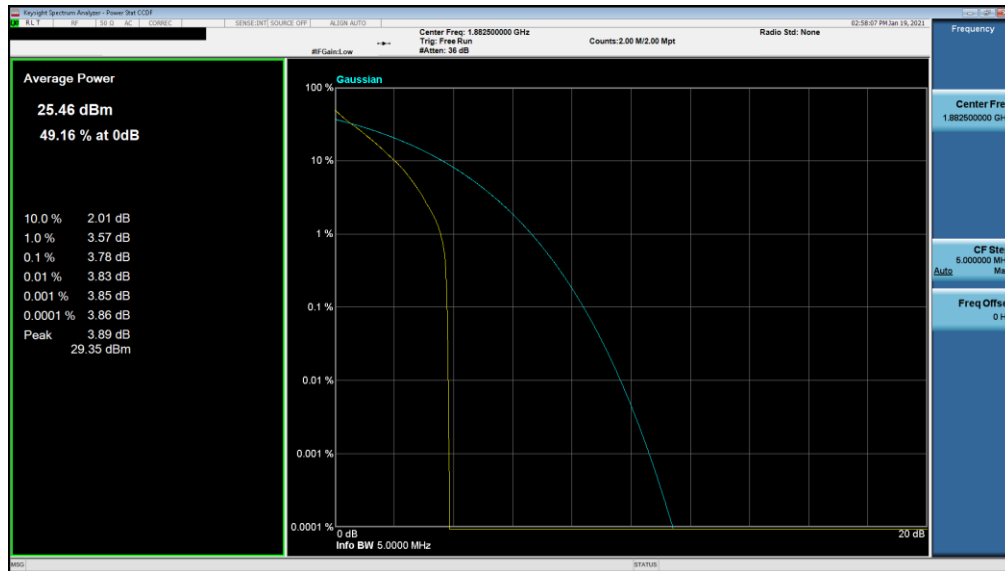
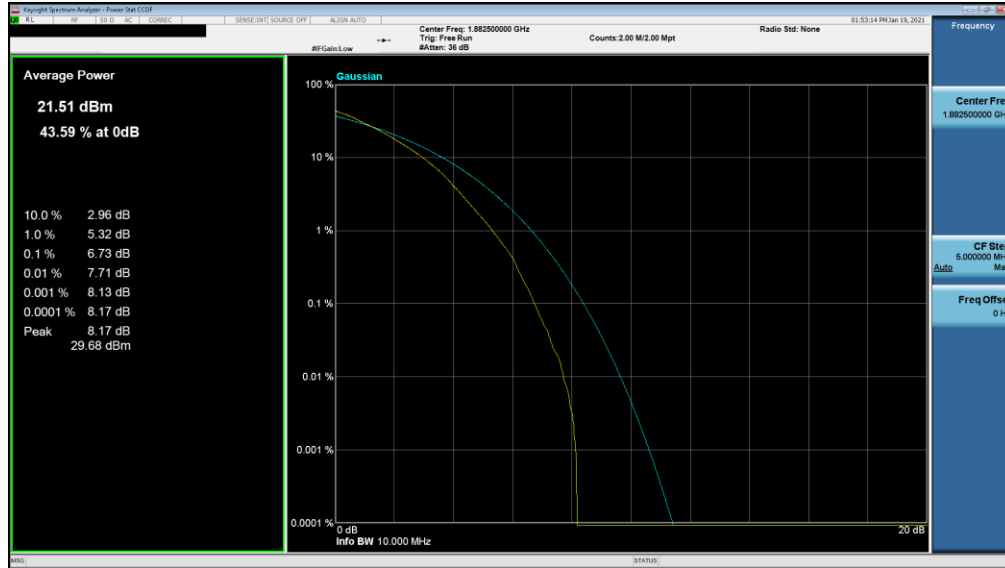


Plot 7-232. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

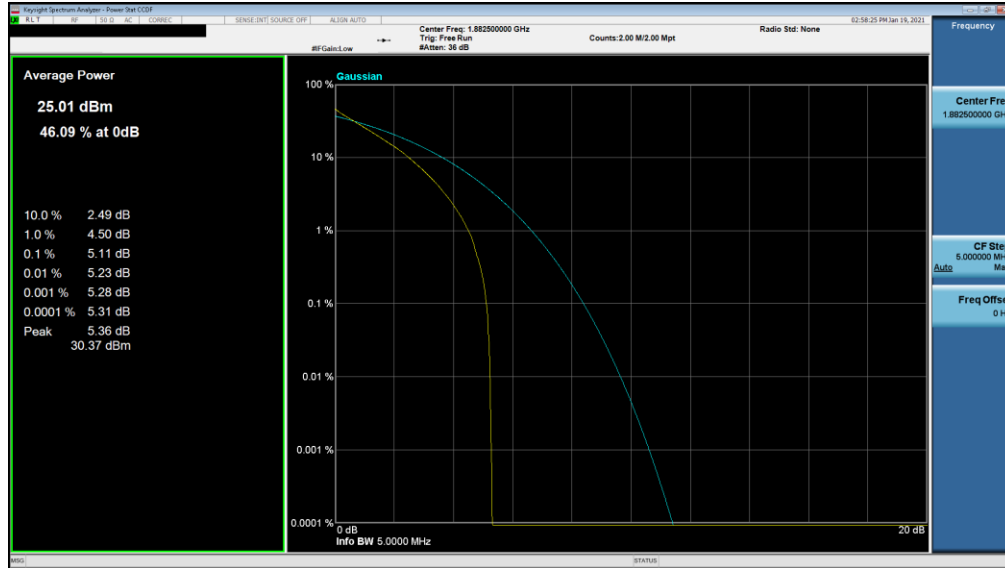


Plot 7-233. PAR Plot (NR Band n25 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

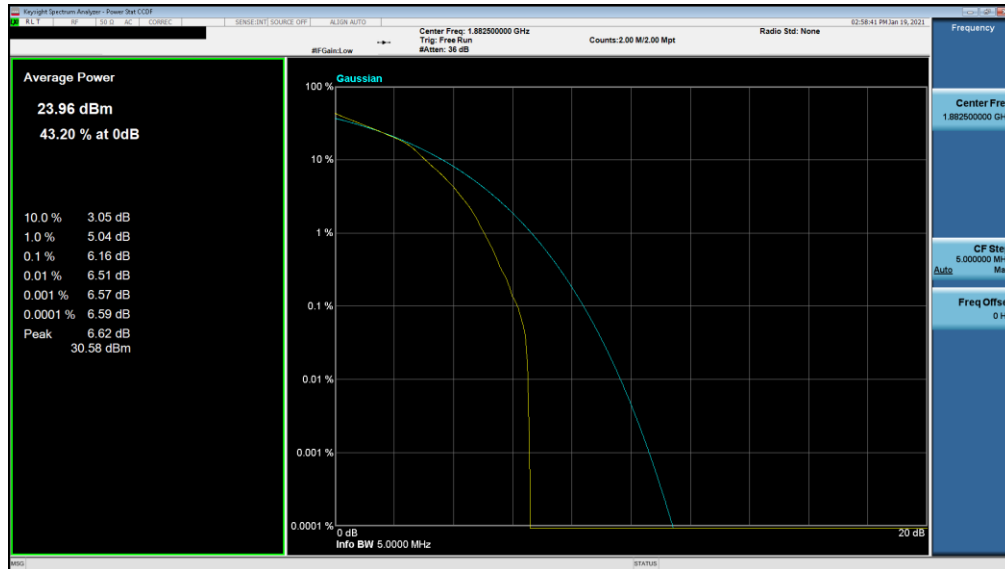
FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 137 of 196



FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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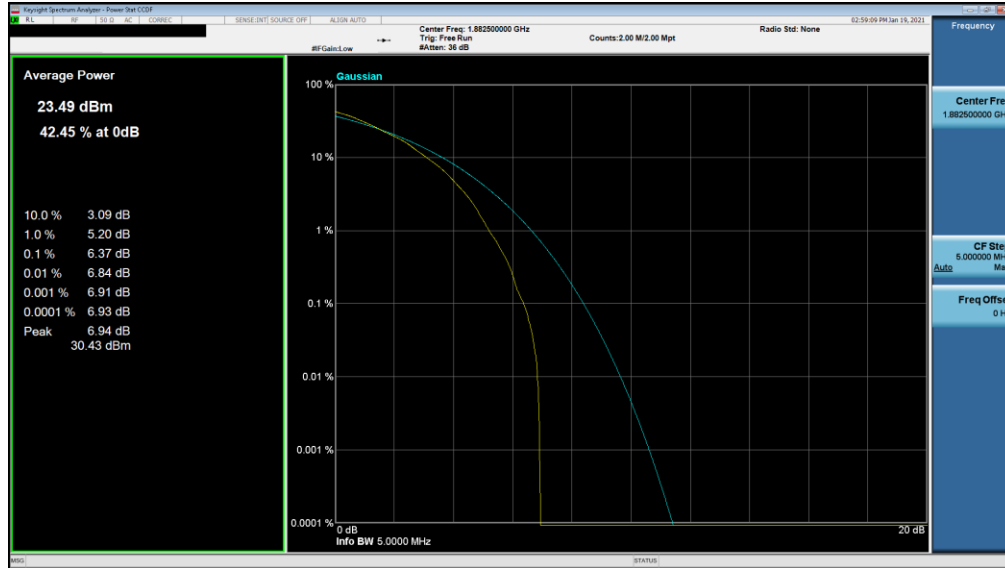


Plot 7-236. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

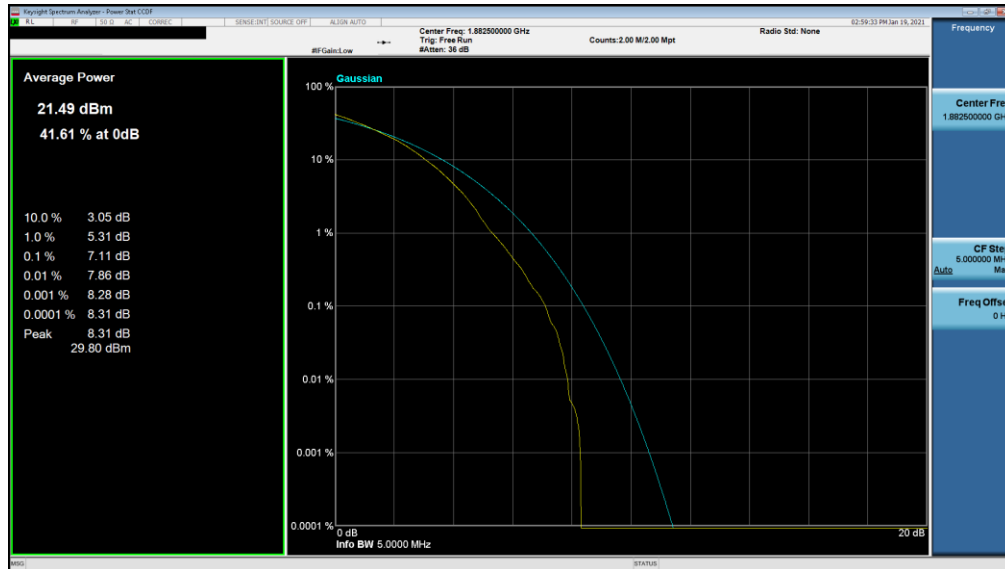


Plot 7-237. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 139 of 196



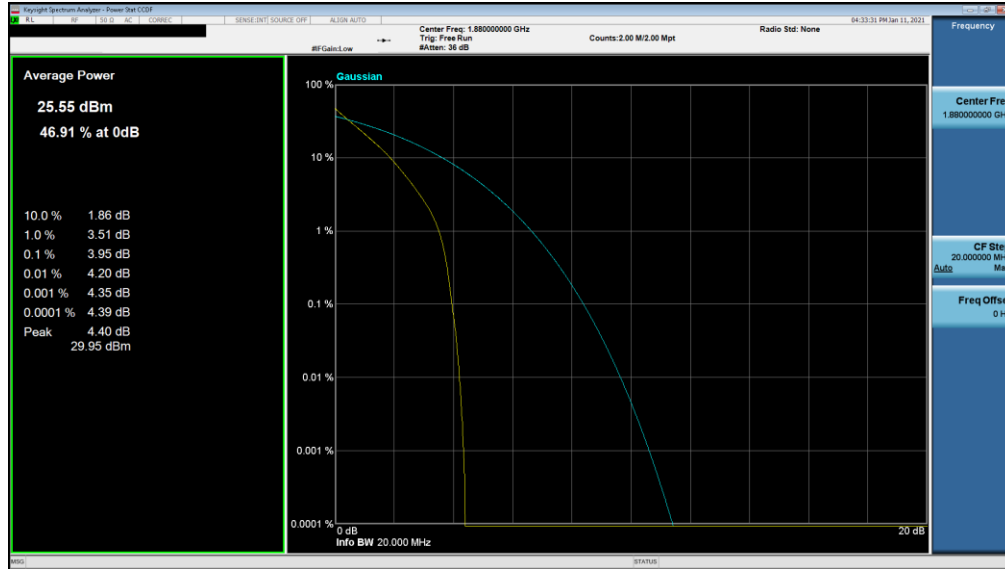
Plot 7-238. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)



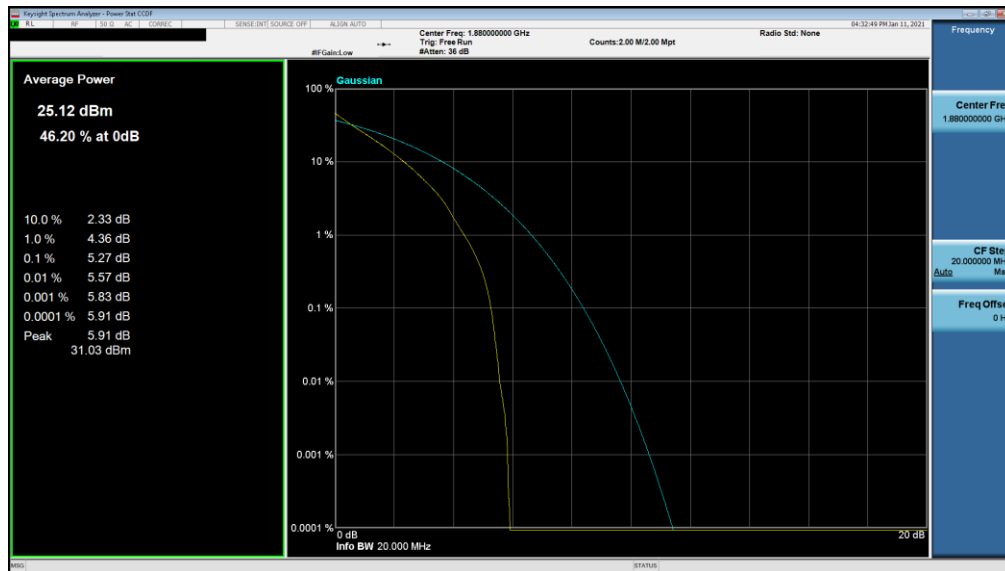
Plot 7-239. PAR Plot (NR Band n25 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 140 of 196

NR Band n2

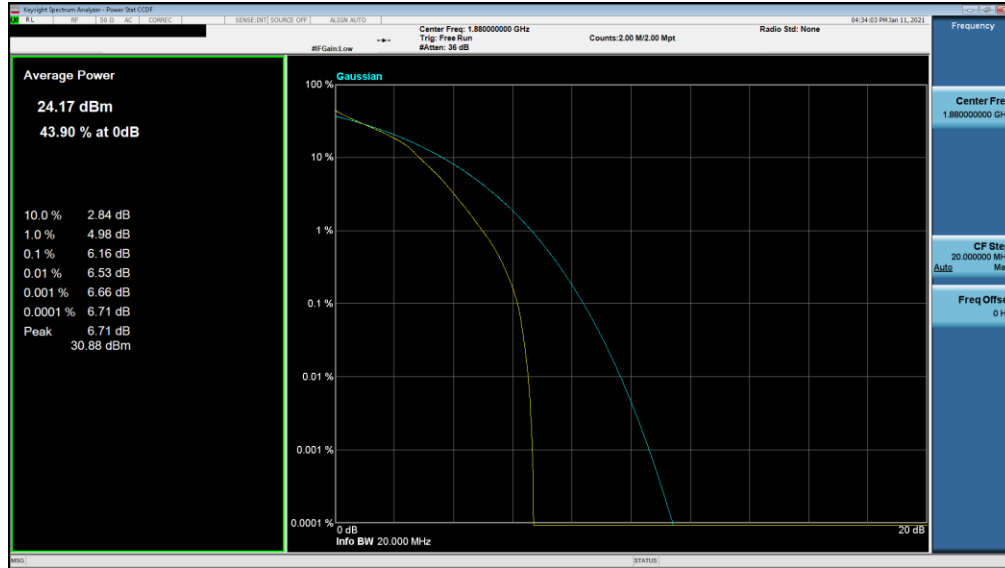


Plot 7-240. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

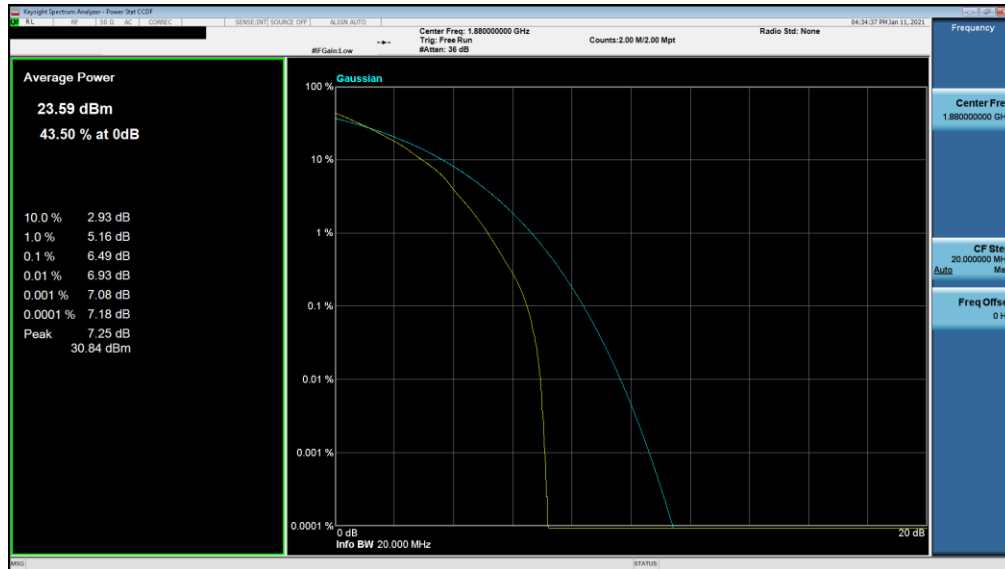


Plot 7-241. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 141 of 196

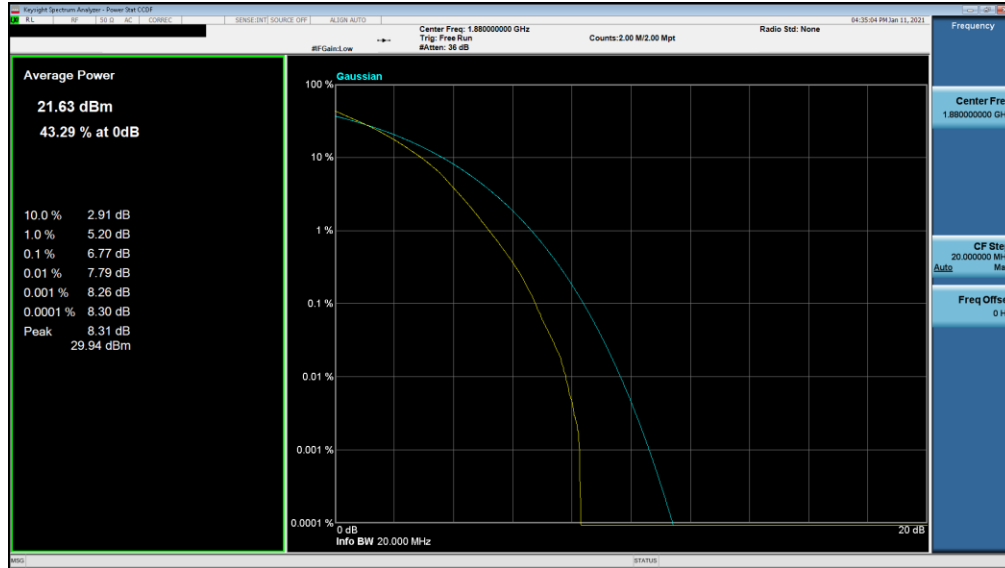


Plot 7-242. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 16-QAM - Full RB)

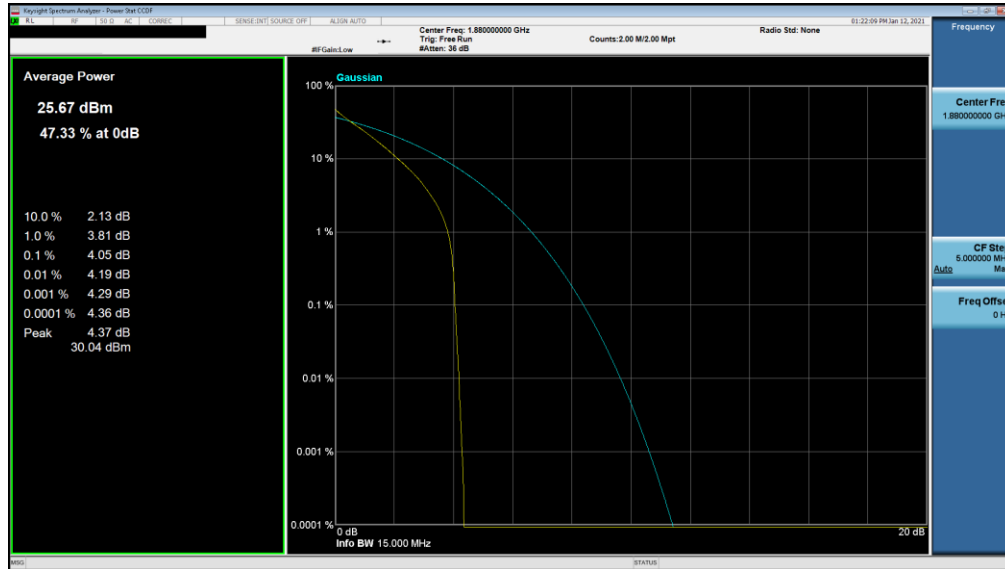


Plot 7-243. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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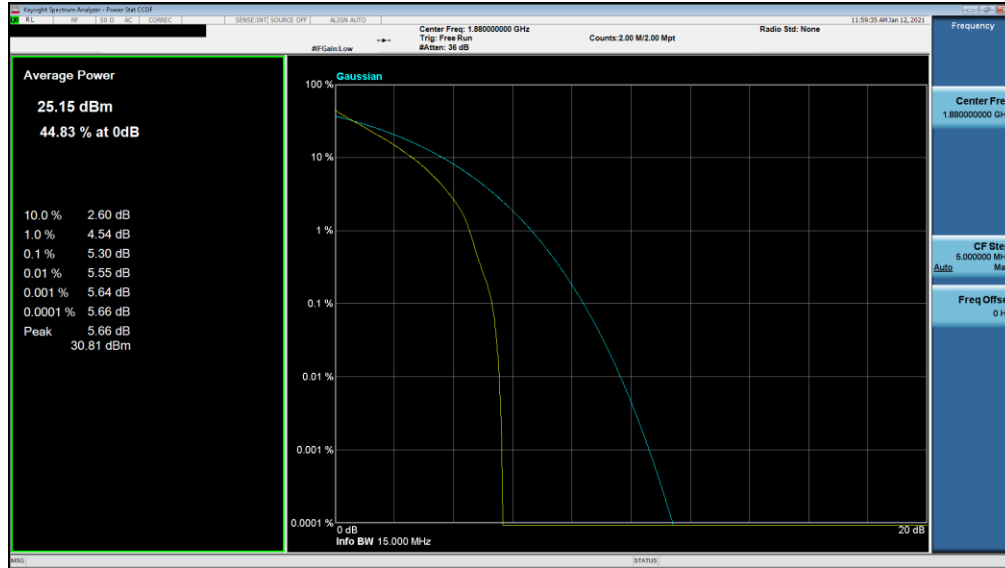


Plot 7-244. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM 256-QAM - Full RB)

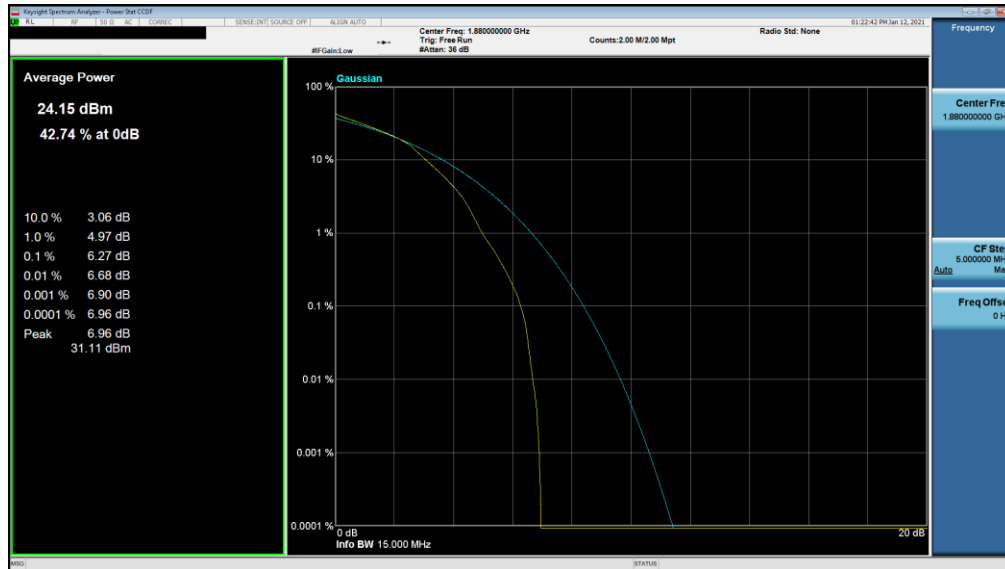


Plot 7-245. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 143 of 196

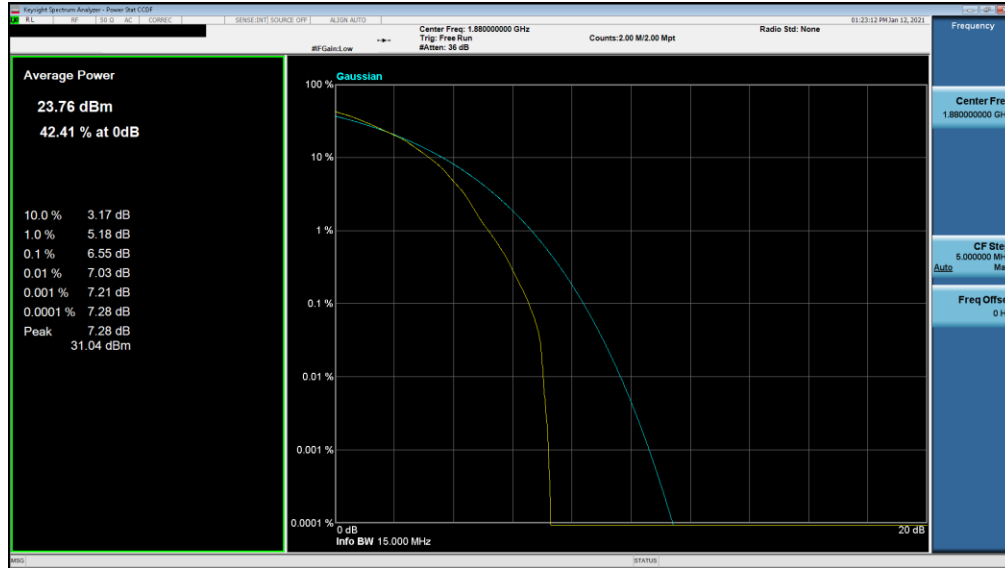


Plot 7-246. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM QPSK - Full RB)

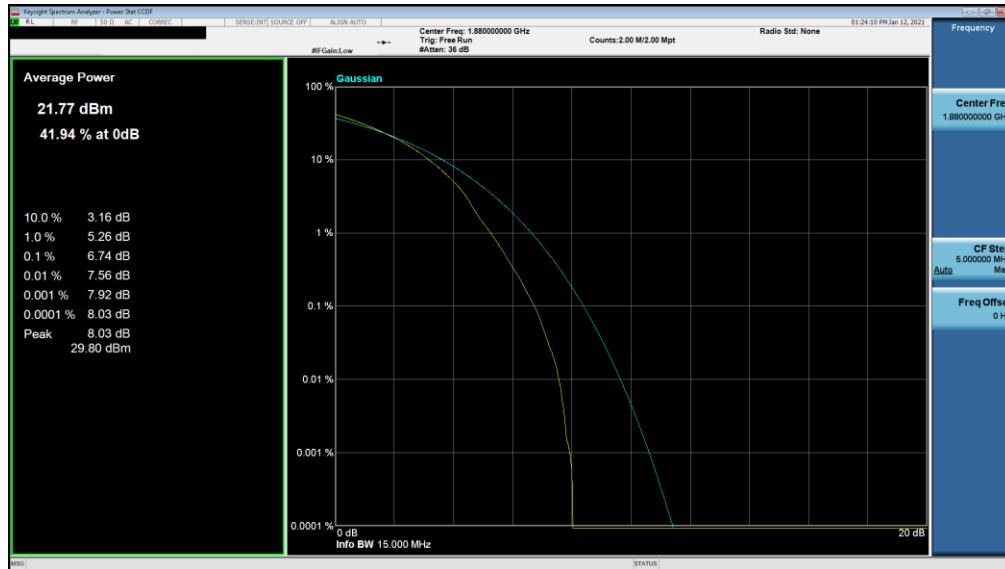


Plot 7-247. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 144 of 196

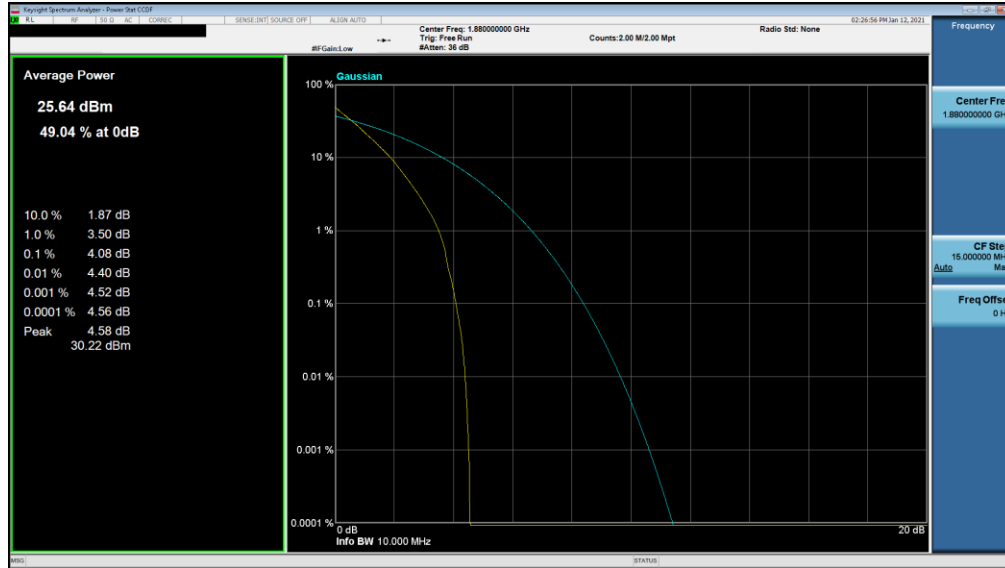


Plot 7-248. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 64-QAM - Full RB)

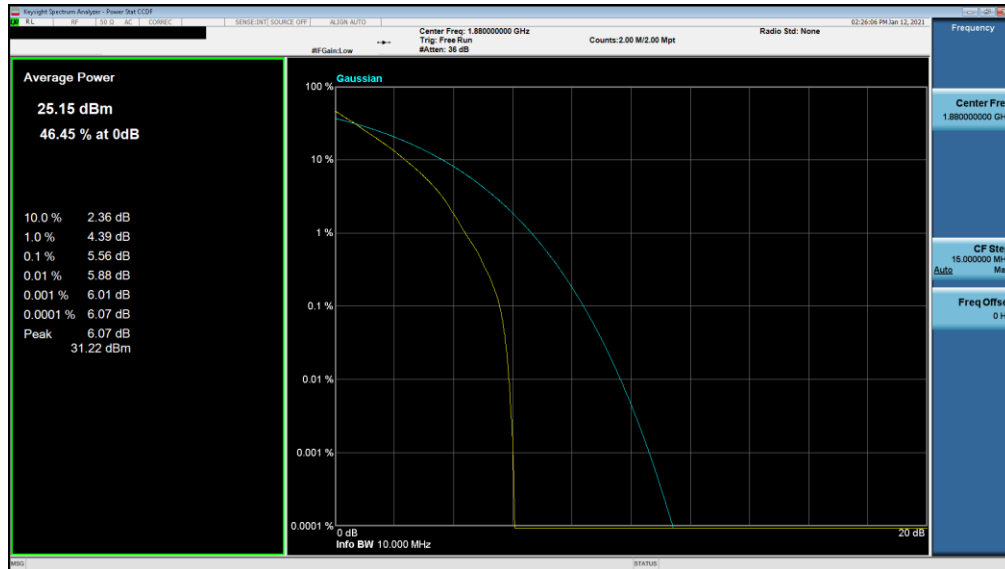


Plot 7-249. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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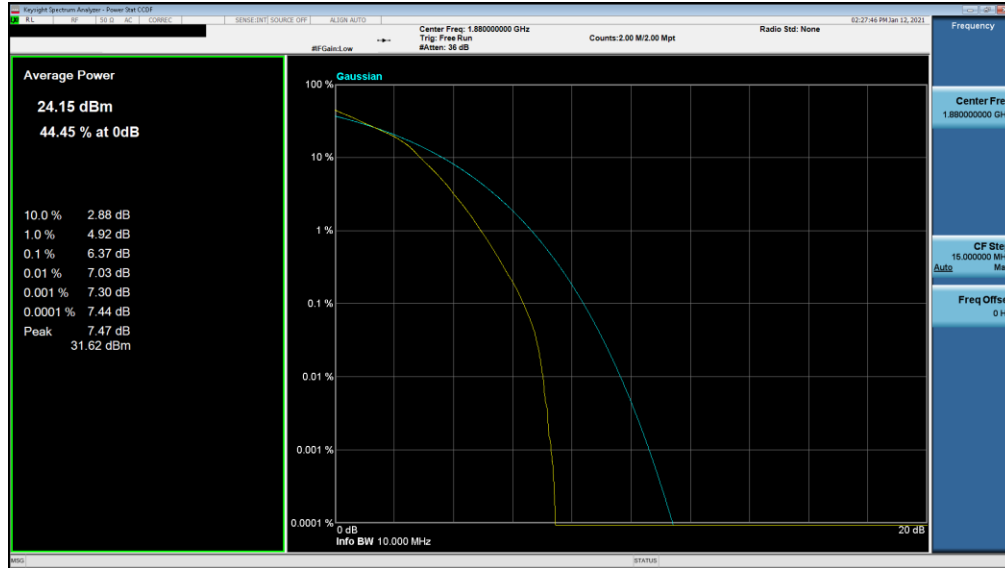


Plot 7-250. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

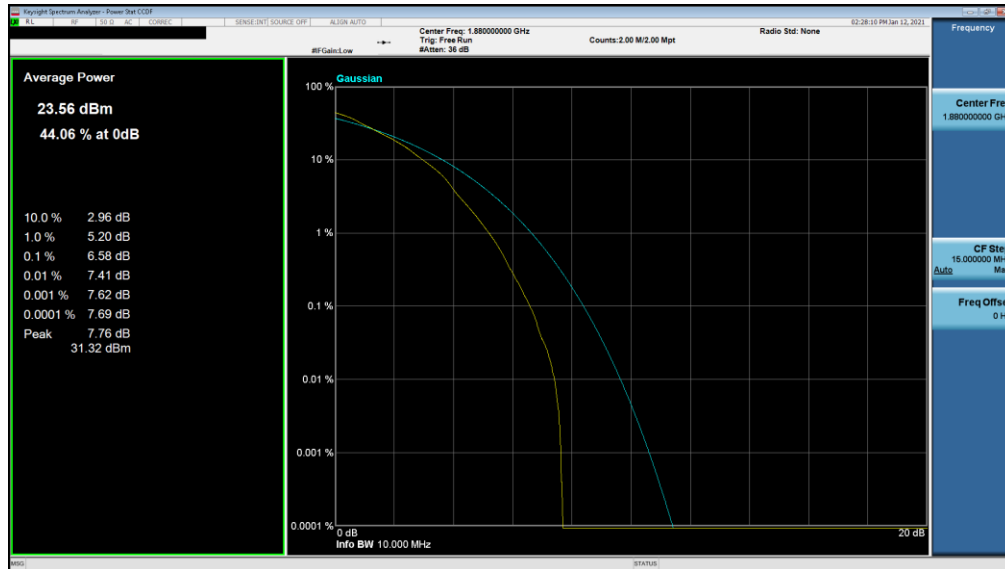


Plot 7-251. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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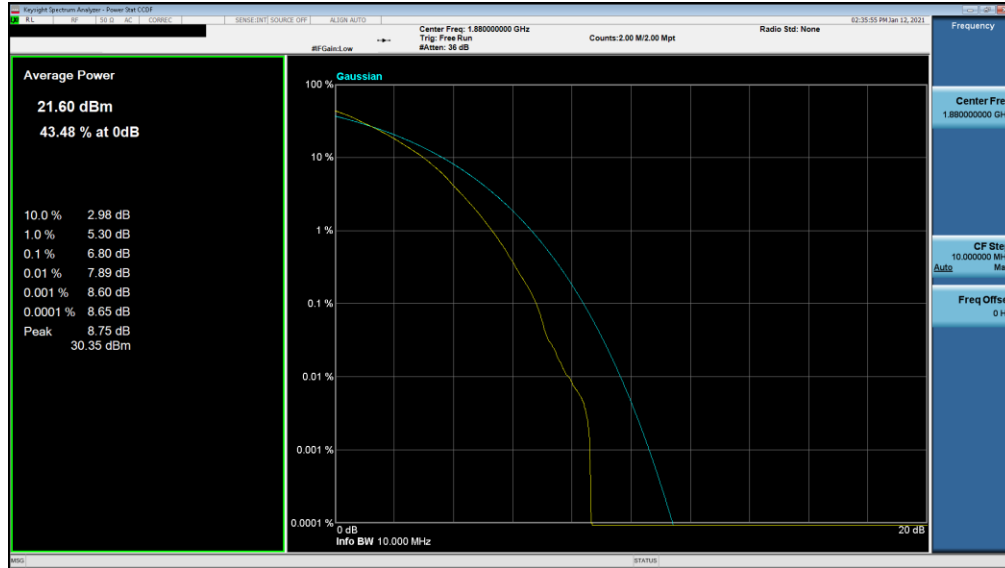


Plot 7-252. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 16-QAM - Full RB)

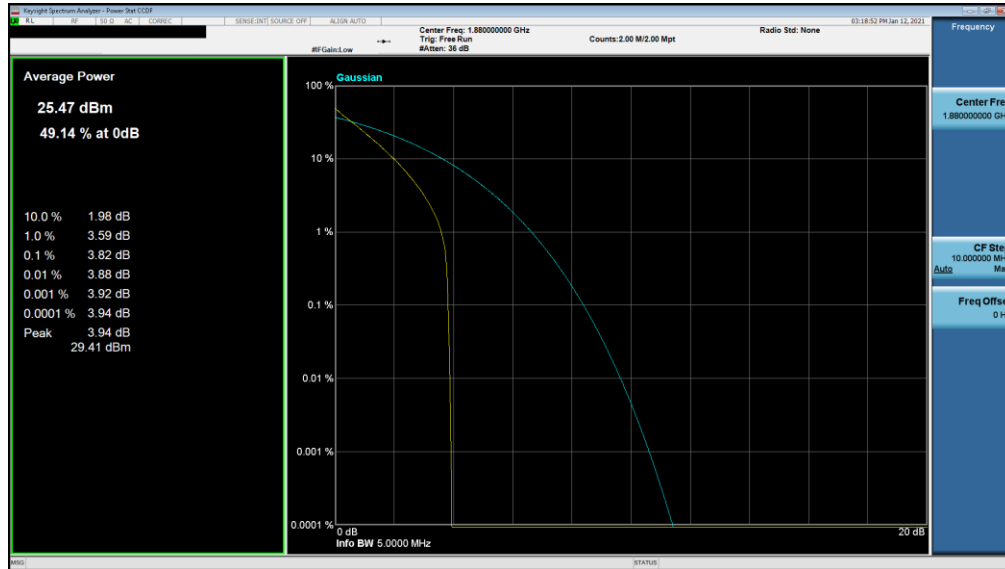


Plot 7-253. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 64-QAM - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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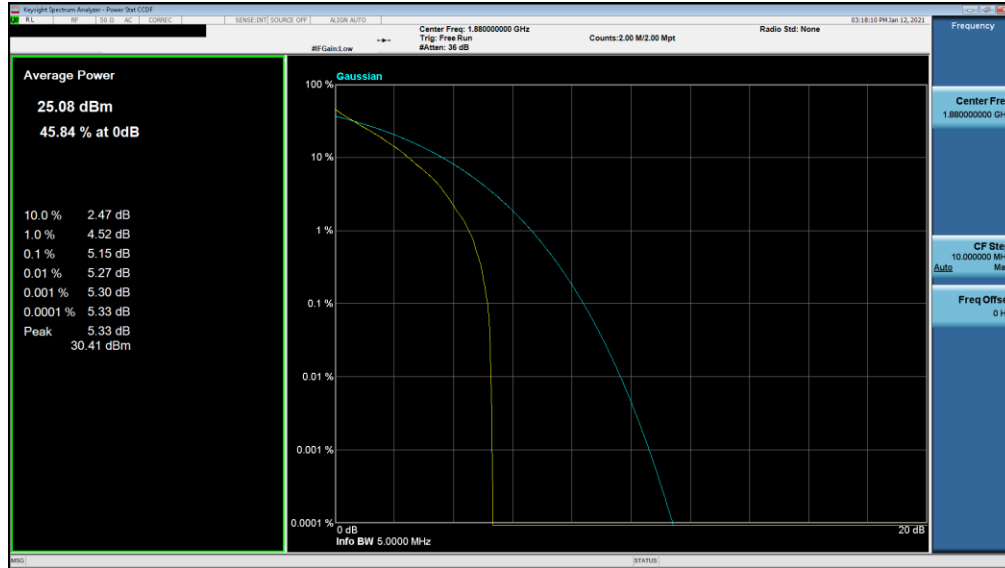


Plot 7-254. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM 256-QAM - Full RB)

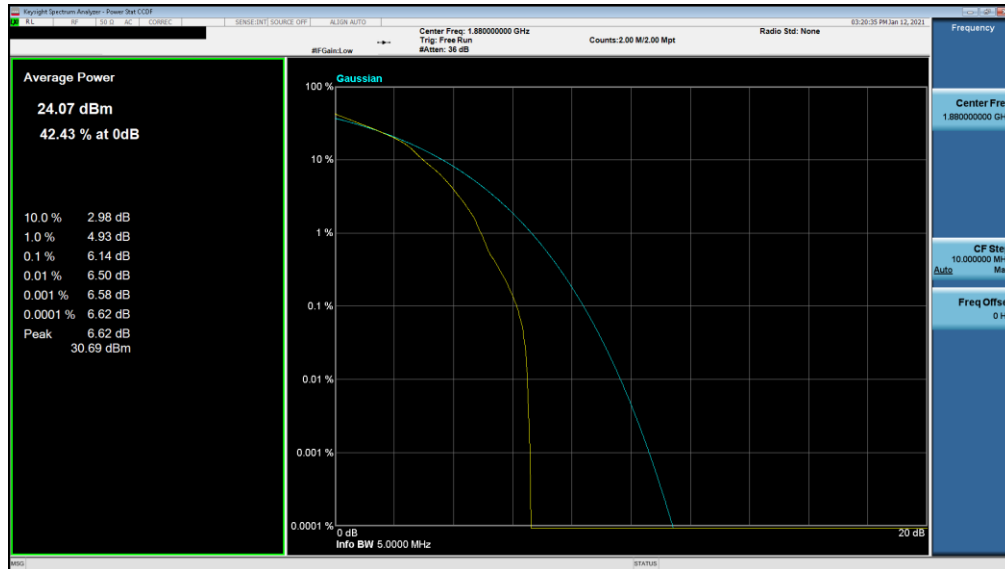


Plot 7-255. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 148 of 196

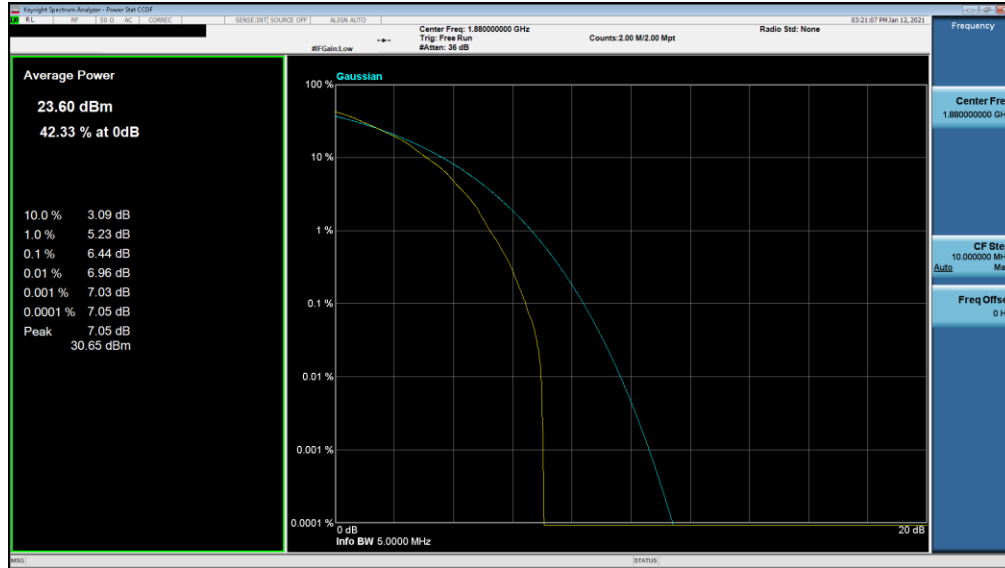


Plot 7-256. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM QPSK - Full RB)

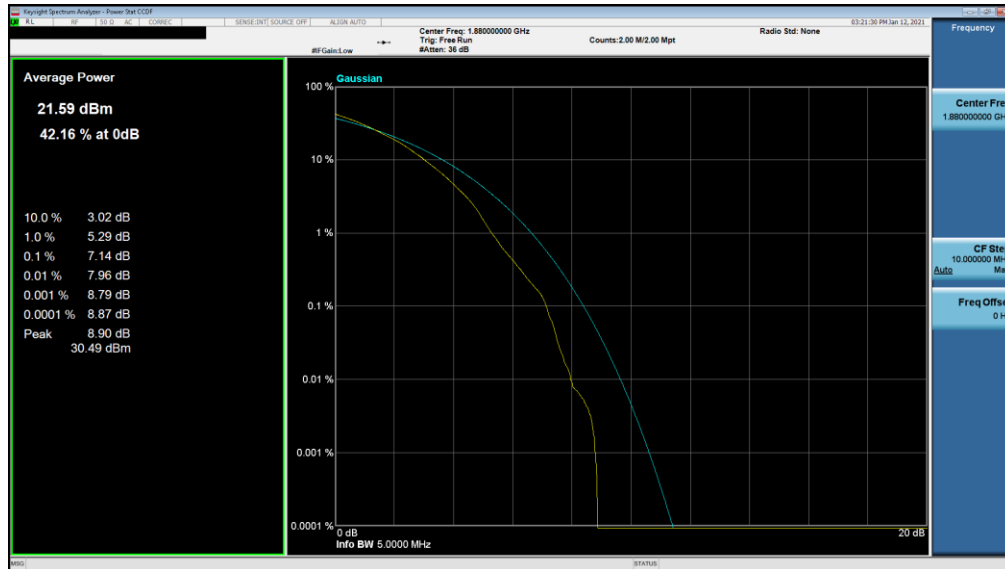


Plot 7-257. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 16-QAM - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 149 of 196



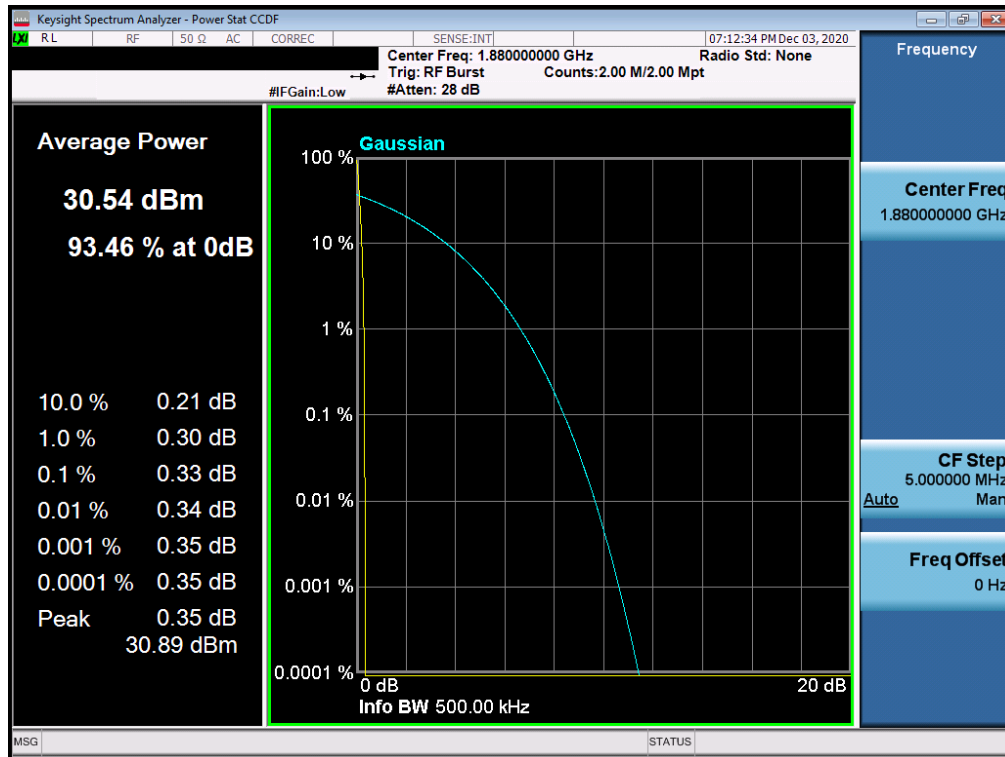
Plot 7-258. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 64-QAM - Full RB)



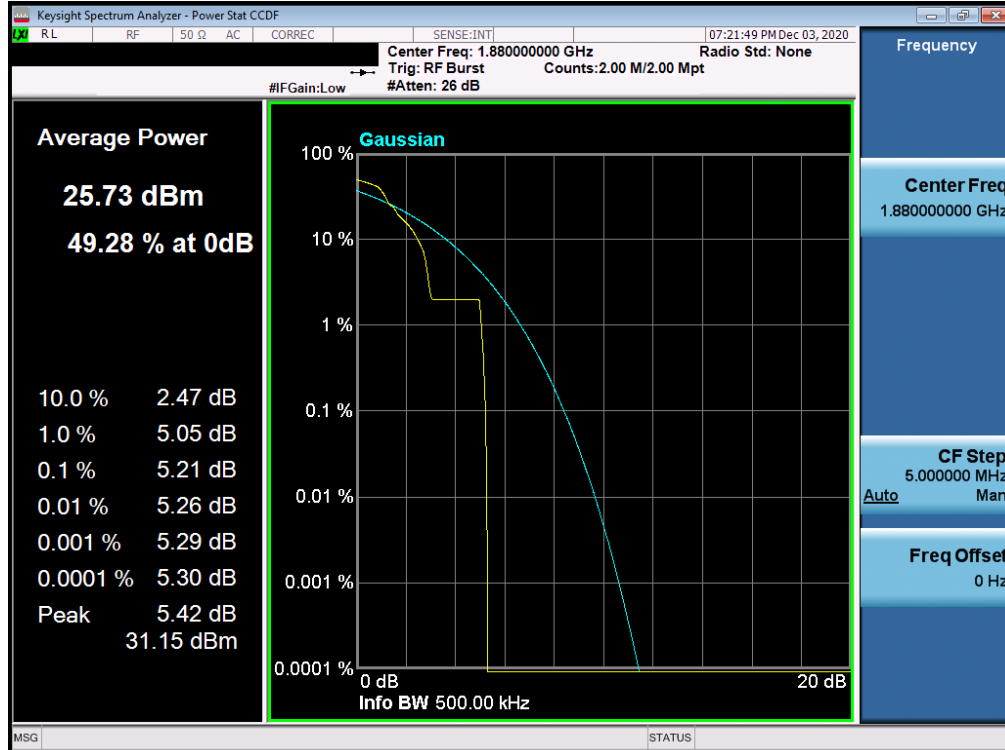
Plot 7-259. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM 256-QAM - Full RB)

FCC ID: BCGA2301	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 150 of 196

GSM/GPRS PCS



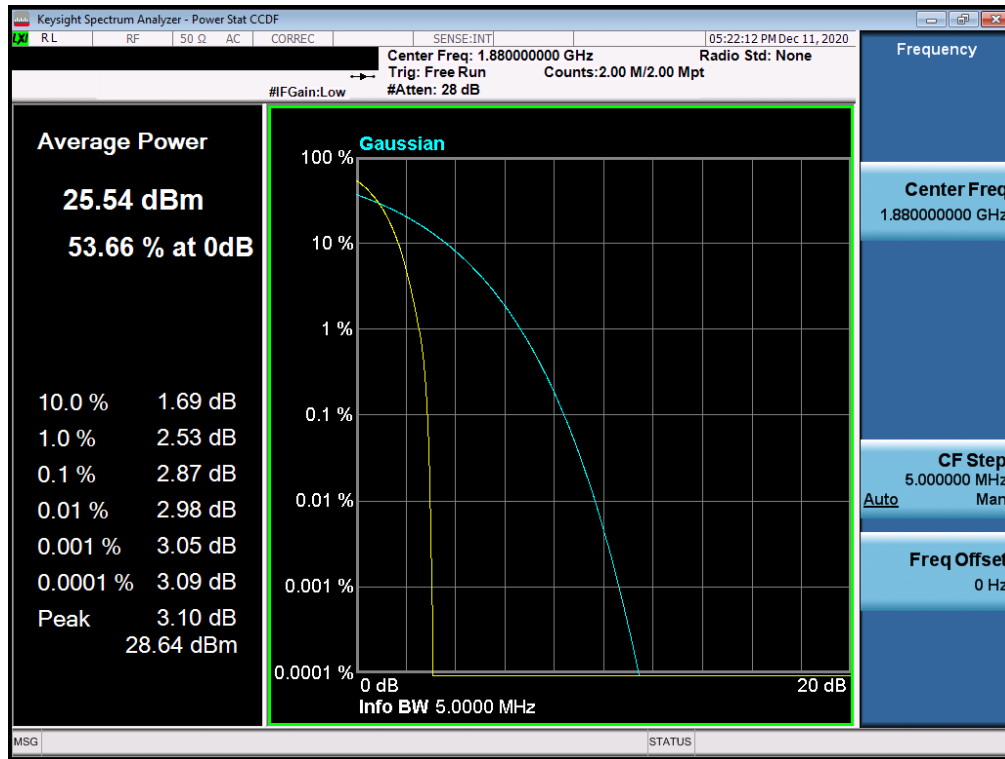
Plot 7-260. PAR Plot (GPRS, Ch. 661)



Plot 7-261. PAR Plot (EDGE, Ch. 661)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 151 of 196

WCDMA PCS



Plot 7-262. PAR Plot (WCDMA, Ch. 9400)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 152 of 196

7.6 Radiated Power (ERP/EIRP) §24.232(c)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. 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
ANSI C63.26-2015 – Section 5.2.5.5

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.

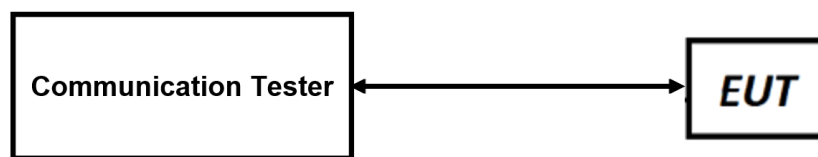



Figure 7-5. ERP/EIRP Measurement Setup

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT 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 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: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6.1 Antenna 3 – EIRP

LTE Band 25


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	1.40	1 / 50	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 99	25.61	27.01	0.502	33.01	-6.00
		1905.0	1.40	1 / 50	25.64	27.04	0.506	33.01	-5.97
	16-QAM	1905.0	1.40	1 / 99	25.35	26.75	0.473	33.01	-6.26
	64-QAM	1882.5	1.40	1 / 99	24.63	26.03	0.401	33.01	-6.98
	256-QAM	1882.5	1.40	1 / 99	21.06	22.46	0.176	33.01	-10.55
15 MHz	QPSK	1857.5	1.40	1 / 37	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 74	25.41	26.81	0.480	33.01	-6.20
		1907.5	1.40	1 / 0	25.40	26.80	0.479	33.01	-6.21
	16-QAM	1882.5	1.40	1 / 74	24.94	26.34	0.431	33.01	-6.67
	64-QAM	1857.5	1.40	1 / 0	24.26	25.66	0.368	33.01	-7.35
	256-QAM	1857.5	1.40	75 / 0	21.10	22.50	0.178	33.01	-10.51
10 MHz	QPSK	1855.0	1.40	1 / 49	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 25	25.64	27.04	0.506	33.01	-5.97
		1910.0	1.40	1 / 49	25.70	27.10	0.513	33.01	-5.91
	16-QAM	1882.5	1.40	1 / 0	25.16	26.56	0.453	33.01	-6.45
	64-QAM	1910.0	1.40	1 / 0	24.07	25.47	0.352	33.01	-7.54
	256-QAM	1910.0	1.40	1 / 49	21.30	22.70	0.186	33.01	-10.31
5 MHz	QPSK	1852.5	1.40	1 / 24	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 0	25.45	26.85	0.484	33.01	-6.16
		1912.5	1.40	1 / 12	25.38	26.78	0.476	33.01	-6.23
	16-QAM	1852.5	1.40	1 / 24	24.79	26.19	0.416	33.01	-6.82
	64-QAM	1882.5	1.40	1 / 12	24.51	25.91	0.390	33.01	-7.10
	256-QAM	1882.5	1.40	1 / 24	21.06	22.46	0.176	33.01	-10.55
3 MHz	QPSK	1851.5	1.40	1 / 0	25.33	26.73	0.471	33.01	-6.28
		1882.5	1.40	1 / 0	25.52	26.92	0.492	33.01	-6.09
		1913.5	1.40	1 / 0	25.70	27.10	0.513	33.01	-5.91
	16-QAM	1851.5	1.40	1 / 7	24.27	25.67	0.369	33.01	-7.34
	64-QAM	1851.5	1.40	15 / 0	24.25	25.65	0.367	33.01	-7.36
	256-QAM	1913.5	1.40	1 / 0	21.18	22.58	0.181	33.01	-10.43
1.4 MHz	QPSK	1850.7	1.40	1 / 0	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 3	25.36	26.76	0.474	33.01	-6.25
		1914.3	1.40	1 / 0	25.70	27.10	0.513	33.01	-5.91
	16-QAM	1850.7	1.40	1 / 0	24.67	26.07	0.405	33.01	-6.94
	64-QAM	1914.3	1.40	6 / 0	24.12	25.52	0.356	33.01	-7.49
	256-QAM	1850.7	1.40	6 / 0	20.98	22.38	0.173	33.01	-10.63

Table 7-2. EIRP Data (LTE Band 25)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 154 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	1.40	1 / 0	25.70	27.10	0.513	33.01	-5.91
		1880.0	1.40	1 / 0	25.54	26.94	0.494	33.01	-6.07
		1900.0	1.40	1 / 0	25.63	27.03	0.505	33.01	-5.98
	16-QAM	1900.0	1.40	1 / 50	25.33	26.73	0.471	33.01	-6.28
	64-QAM	1880.0	1.40	1 / 50	24.79	26.19	0.416	33.01	-6.82
	256-QAM	1880.0	1.40	1 / 99	21.15	22.55	0.180	33.01	-10.46
15 MHz	QPSK	1857.5	1.40	1 / 0	25.70	27.10	0.513	33.01	-5.91
		1880.0	1.40	1 / 37	25.70	27.10	0.513	33.01	-5.91
		1902.5	1.40	1 / 74	25.70	27.10	0.513	33.01	-5.91
	16-QAM	1880.0	1.40	1 / 37	25.18	26.58	0.455	33.01	-6.43
	64-QAM	1880.0	1.40	1 / 37	24.64	26.04	0.402	33.01	-6.97
	256-QAM	1902.5	1.40	1 / 74	21.50	22.90	0.195	33.01	-10.11
10 MHz	QPSK	1855.0	1.40	1 / 49	25.67	27.07	0.509	33.01	-5.94
		1880.0	1.40	1 / 49	25.70	27.10	0.513	33.01	-5.91
		1905.0	1.40	1 / 0	25.69	27.09	0.512	33.01	-5.92
	16-QAM	1880.0	1.40	1 / 49	25.12	26.52	0.449	33.01	-6.49
	64-QAM	1880.0	1.40	1 / 0	24.60	26.00	0.398	33.01	-7.01
	256-QAM	1905.0	1.40	1 / 0	21.44	22.84	0.192	33.01	-10.17
5 MHz	QPSK	1852.5	1.40	1 / 24	25.70	27.10	0.513	33.01	-5.91
		1880.0	1.40	1 / 24	25.63	27.03	0.505	33.01	-5.98
		1907.5	1.40	1 / 24	25.65	27.05	0.507	33.01	-5.96
	16-QAM	1880.0	1.40	1 / 0	25.26	26.66	0.463	33.01	-6.35
	64-QAM	1880.0	1.40	1 / 24	24.72	26.12	0.409	33.01	-6.89
	256-QAM	1852.5	1.40	25 / 0	21.12	22.52	0.179	33.01	-10.49
3 MHz	QPSK	1851.5	1.40	1 / 0	25.70	27.10	0.513	33.01	-5.91
		1880.0	1.40	1 / 14	25.65	27.05	0.507	33.01	-5.96
		1908.5	1.40	1 / 14	25.69	27.09	0.512	33.01	-5.92
	16-QAM	1880.0	1.40	1 / 14	25.13	26.53	0.450	33.01	-6.48
	64-QAM	1880.0	1.40	1 / 14	24.56	25.96	0.394	33.01	-7.05
	256-QAM	1908.5	1.40	1 / 0	21.48	22.88	0.194	33.01	-10.13
1.4 MHz	QPSK	1850.7	1.40	1 / 3	25.70	27.10	0.513	33.01	-5.91
		1880.0	1.40	1 / 3	25.69	27.09	0.512	33.01	-5.92
		1909.3	1.40	1 / 0	25.70	27.10	0.513	33.01	-5.91
	16-QAM	1880.0	1.40	1 / 5	25.16	26.56	0.453	33.01	-6.45
	64-QAM	1880.0	1.40	1 / 5	24.60	26.00	0.398	33.01	-7.01
	256-QAM	1850.7	1.40	6 / 0	21.11	22.51	0.178	33.01	-10.50

Table 7-3. EIRP Data (LTE Band 2)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 155 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	1.40	1 / 1	25.49	26.89	0.489	33.01	-6.12
		1882.5	1.40	1 / 98	25.63	27.03	0.505	33.01	-5.98
		1905.0	1.40	1 / 50	25.51	26.91	0.491	33.01	-6.10
	QPSK	1860.0	1.40	1 / 1	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 1	25.62	27.02	0.504	33.01	-5.99
		1905.0	1.40	1 / 50	25.69	27.09	0.512	33.01	-5.92
	16-QAM	1860.0	1.40	1 / 1	24.95	26.35	0.432	33.01	-6.66
	64-QAM	1860.0	1.40	1 / 1	23.40	24.80	0.302	33.01	-8.21
	256-QAM	1860.0	1.40	1 / 50	21.58	22.98	0.199	33.01	-10.03
15 MHz	$\pi/2$ BPSK	1857.5	1.40	1 / 73	25.44	26.84	0.483	33.01	-6.17
		1882.5	1.40	1 / 1	25.66	27.06	0.508	33.01	-5.95
		1907.5	1.40	1 / 75	25.61	27.01	0.502	33.01	-6.00
	QPSK	1857.5	1.40	1 / 73	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 73	25.58	26.98	0.499	33.01	-6.03
		1907.5	1.40	1 / 75	25.56	26.96	0.497	33.01	-6.05
	16-QAM	1857.5	1.40	1 / 73	24.74	26.14	0.411	33.01	-6.87
	64-QAM	1857.5	1.40	1 / 75	23.26	24.66	0.292	33.01	-8.35
	256-QAM	1857.5	1.40	1 / 1	21.43	22.83	0.192	33.01	-10.18
10 MHz	$\pi/2$ BPSK	1855.0	1.40	1 / 48	25.68	27.08	0.511	33.01	-5.93
		1882.5	1.40	1 / 48	25.51	26.91	0.491	33.01	-6.10
		1910.0	1.40	1 / 1	25.34	26.74	0.472	33.01	-6.27
	QPSK	1855.0	1.40	1 / 25	25.67	27.07	0.509	33.01	-5.94
		1882.5	1.40	1 / 48	25.70	27.10	0.513	33.01	-5.91
		1910.0	1.40	1 / 48	25.65	27.05	0.507	33.01	-5.96
	16-QAM	1882.5	1.40	1 / 48	24.85	26.25	0.422	33.01	-6.76
	64-QAM	1855.0	1.40	1 / 1	23.15	24.55	0.285	33.01	-8.46
	256-QAM	1855.0	1.40	1 / 48	21.22	22.62	0.183	33.01	-10.39
5 MHz	$\pi/2$ BPSK	1852.5	1.40	1 / 12	25.50	26.90	0.490	33.01	-6.11
		1882.5	1.40	1 / 1	25.68	27.08	0.511	33.01	-5.93
		1912.5	1.40	1 / 1	25.63	27.03	0.505	33.01	-5.98
	QPSK	1852.5	1.40	1 / 12	25.70	27.10	0.513	33.01	-5.91
		1882.5	1.40	1 / 23	25.55	26.95	0.495	33.01	-6.06
		1912.5	1.40	1 / 12	25.67	27.07	0.509	33.01	-5.94
	16-QAM	1852.5	1.40	1 / 12	25.04	26.44	0.441	33.01	-6.57
	64-QAM	1852.5	1.40	1 / 23	23.23	24.63	0.290	33.01	-8.38
	256-QAM	1882.5	1.40	1 / 75	21.46	22.86	0.193	33.01	-10.15

Table 7-4. EIRP Data (NR Band n25 – DFTs-OFDM)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 156 of 196

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	1.40	1 / 50	25.59	26.99	0.500	33.01	-6.02
		1880.0	1.40	1 / 98	25.54	26.94	0.494	33.01	-6.07
		1900.0	1.40	1 / 98	25.52	26.92	0.492	33.01	-6.09
	QPSK	1860.0	1.40	1 / 98	25.66	27.06	0.508	33.01	-5.95
		1880.0	1.40	1 / 1	25.70	27.10	0.513	33.01	-5.91
		1900.0	1.40	1 / 1	25.22	26.62	0.459	33.01	-6.39
	16-QAM	1900.0	1.40	1 / 50	24.86	26.26	0.423	33.01	-6.75
	64-QAM	1860.0	1.40	100 / 0	23.01	24.41	0.276	33.01	-8.60
	256-QAM	1900.0	1.40	1 / 99	21.53	22.93	0.196	33.01	-10.08
15 MHz	$\pi/2$ BPSK	1857.5	1.40	1 / 1	25.54	26.94	0.494	33.01	-6.07
		1880.0	1.40	1 / 73	25.60	27.00	0.501	33.01	-6.01
		1902.5	1.40	1 / 75	25.33	26.73	0.471	33.01	-6.28
	QPSK	1857.5	1.40	1 / 73	25.70	27.10	0.513	33.01	-5.91
		1880.0	1.40	1 / 75	25.66	27.06	0.508	33.01	-5.95
		1902.5	1.40	1 / 73	25.35	26.75	0.473	33.01	-6.26
	16-QAM	1857.5	1.40	1 / 73	24.97	26.37	0.434	33.01	-6.64
	64-QAM	1857.5	1.40	1 / 1	23.19	24.59	0.288	33.01	-8.42
	256-QAM	1902.5	1.40	1 / 73	21.25	22.65	0.184	33.01	-10.36
10 MHz	$\pi/2$ BPSK	1855.0	1.40	1 / 48	25.49	26.89	0.489	33.01	-6.12
		1880.0	1.40	1 / 25	25.59	26.99	0.500	33.01	-6.02
		1905.0	1.40	1 / 48	25.51	26.91	0.491	33.01	-6.10
	QPSK	1855.0	1.40	1 / 1	25.69	27.09	0.512	33.01	-5.92
		1880.0	1.40	1 / 1	25.64	27.04	0.506	33.01	-5.97
		1905.0	1.40	1 / 1	25.64	27.04	0.506	33.01	-5.97
	16-QAM	1855.0	1.40	1 / 48	25.04	26.44	0.441	33.01	-6.57
	64-QAM	1905.0	1.40	1 / 48	23.34	24.74	0.298	33.01	-8.27
	256-QAM	1905.0	1.40	1 / 48	20.98	22.38	0.173	33.01	-10.63
5 MHz	$\pi/2$ BPSK	1852.5	1.40	1 / 23	25.70	27.10	0.513	33.01	-5.91
		1880.0	1.40	1 / 12	25.63	27.03	0.505	33.01	-5.98
		1907.5	1.40	1 / 12	25.34	26.74	0.472	33.01	-6.27
	QPSK	1852.5	1.40	1 / 23	25.55	26.95	0.495	33.01	-6.06
		1880.0	1.40	1 / 23	25.59	26.99	0.500	33.01	-6.02
		1907.5	1.40	1 / 12	25.57	26.97	0.498	33.01	-6.04
	16-QAM	1907.5	1.40	1 / 12	24.82	26.22	0.419	33.01	-6.79
	64-QAM	1852.5	1.40	1 / 23	23.02	24.42	0.277	33.01	-8.59
	256-QAM	1907.5	1.40	75 / 0	21.02	22.42	0.175	33.01	-10.59

Table 7-5. EIRP Data (NR Band n2 – DFTs-OFDM)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 157 of 196

GSM/GPRS PCS


Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	30.58	1.40	31.98	1.578	33.01	-1.03
1880.00	GPRS1900	30.72	1.40	32.12	1.629	33.01	-0.89
1909.80	GPRS1900	30.56	1.40	31.96	1.570	33.01	-1.05
1880.00	EDGE1900	25.70	1.40	27.10	0.513	33.01	-5.91

Table 7-6. EIRP Data (GPRS PCS)

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.70	1.40	27.10	0.513	33.01	-5.91
1880.00	WCDMA1900	25.56	1.40	26.96	0.497	33.01	-6.05
1907.60	WCDMA1900	25.55	1.40	26.95	0.495	33.01	-6.06


Table 7-7. EIRP Data (WCDMA PCS)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 158 of 196

7.6.2 Antenna 1 – EIRP


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	-0.10	1 / 50	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 99	22.13	22.03	0.160	33.01	-10.98
		1905.0	-0.10	1 / 50	22.12	22.02	0.159	33.01	-10.99
	16-QAM	1905.0	-0.10	1 / 99	22.06	21.96	0.157	33.01	-11.05
	64-QAM	1882.5	-0.10	1 / 50	21.10	21.00	0.126	33.01	-12.01
	256-QAM	1882.5	-0.10	1 / 99	17.58	17.48	0.056	33.01	-15.53
15 MHz	QPSK	1857.5	-0.10	1 / 37	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 37	21.93	21.83	0.152	33.01	-11.18
		1907.5	-0.10	1 / 74	22.14	22.04	0.160	33.01	-10.97
	16-QAM	1882.5	-0.10	1 / 37	21.49	21.39	0.138	33.01	-11.62
	64-QAM	1857.5	-0.10	1 / 0	20.76	20.66	0.116	33.01	-12.35
	256-QAM	1907.5	-0.10	1 / 74	17.92	17.82	0.061	33.01	-15.19
10 MHz	QPSK	1855.0	-0.10	1 / 49	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 0	22.18	22.08	0.161	33.01	-10.93
		1910.0	-0.10	1 / 0	22.19	22.09	0.162	33.01	-10.92
	16-QAM	1882.5	-0.10	1 / 0	21.79	21.69	0.148	33.01	-11.32
	64-QAM	1910.0	-0.10	1 / 0	20.64	20.54	0.113	33.01	-12.47
	256-QAM	1910.0	-0.10	1 / 0	17.98	17.88	0.061	33.01	-15.13
5 MHz	QPSK	1852.5	-0.10	1 / 24	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 24	22.20	22.10	0.162	33.01	-10.91
		1912.5	-0.10	1 / 0	22.11	22.01	0.159	33.01	-11.00
	16-QAM	1852.5	-0.10	1 / 24	21.30	21.20	0.132	33.01	-11.81
	64-QAM	1882.5	-0.10	25 / 0	20.96	20.86	0.122	33.01	-12.15
	256-QAM	1852.5	-0.10	25 / 0	17.55	17.45	0.056	33.01	-15.56
3 MHz	QPSK	1851.5	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
		1913.5	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
	16-QAM	1851.5	-0.10	1 / 14	21.14	21.04	0.127	33.01	-11.97
	64-QAM	1851.5	-0.10	1 / 14	20.53	20.43	0.110	33.01	-12.58
	256-QAM	1913.5	-0.10	1 / 14	17.67	17.57	0.057	33.01	-15.44
1.4 MHz	QPSK	1850.7	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 5	22.18	22.08	0.161	33.01	-10.93
		1914.3	-0.10	1 / 3	22.20	22.10	0.162	33.01	-10.91
	16-QAM	1850.7	-0.10	1 / 0	21.18	21.08	0.128	33.01	-11.93
	64-QAM	1850.7	-0.10	1 / 0	20.50	20.40	0.110	33.01	-12.61
	256-QAM	1850.7	-0.10	6 / 0	17.54	17.44	0.055	33.01	-15.57

Table 7-8. EIRP Data (LTE Band 25)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 159 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	-0.10	1 / 0	22.15	22.05	0.160	33.01	-10.96
		1880.0	-0.10	1 / 0	22.13	22.03	0.160	33.01	-10.98
		1900.0	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
	16-QAM	1880.0	-0.10	1 / 0	21.87	21.77	0.150	33.01	-11.24
	64-QAM	1860.0	-0.10	1 / 0	21.15	21.05	0.127	33.01	-11.96
	256-QAM	1880.0	-0.10	100 / 0	17.49	17.39	0.055	33.01	-15.62
15 MHz	QPSK	1857.5	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
		1880.0	-0.10	1 / 0	22.05	21.95	0.157	33.01	-11.06
		1902.5	-0.10	1 / 37	22.14	22.04	0.160	33.01	-10.97
	16-QAM	1880.0	-0.10	1 / 0	21.53	21.43	0.139	33.01	-11.58
	64-QAM	1857.5	-0.10	1 / 0	20.84	20.74	0.119	33.01	-12.27
	256-QAM	1902.5	-0.10	1 / 37	17.96	17.86	0.061	33.01	-15.15
10 MHz	QPSK	1855.0	-0.10	1 / 49	22.20	22.10	0.162	33.01	-10.91
		1880.0	-0.10	1 / 0	22.17	22.07	0.161	33.01	-10.94
		1905.0	-0.10	1 / 25	22.17	22.07	0.161	33.01	-10.94
	16-QAM	1880.0	-0.10	1 / 0	21.67	21.57	0.144	33.01	-11.44
	64-QAM	1905.0	-0.10	1 / 49	20.53	20.43	0.110	33.01	-12.58
	256-QAM	1905.0	-0.10	1 / 49	17.90	17.80	0.060	33.01	-15.21
5 MHz	QPSK	1852.5	-0.10	1 / 24	22.20	22.10	0.162	33.01	-10.91
		1880.0	-0.10	1 / 24	22.18	22.08	0.161	33.01	-10.93
		1907.5	-0.10	1 / 12	22.14	22.04	0.160	33.01	-10.97
	16-QAM	1880.0	-0.10	1 / 0	21.83	21.73	0.149	33.01	-11.28
	64-QAM	1852.5	-0.10	1 / 0	20.72	20.62	0.115	33.01	-12.39
	256-QAM	1852.5	-0.10	25 / 0	17.58	17.48	0.056	33.01	-15.53
3 MHz	QPSK	1851.5	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
		1880.0	-0.10	1 / 14	22.12	22.02	0.159	33.01	-10.99
		1908.5	-0.10	1 / 7	22.20	22.10	0.162	33.01	-10.91
	16-QAM	1880.0	-0.10	1 / 0	21.58	21.48	0.141	33.01	-11.53
	64-QAM	1908.5	-0.10	1 / 14	20.55	20.45	0.111	33.01	-12.56
	256-QAM	1908.5	-0.10	1 / 0	17.97	17.87	0.061	33.01	-15.14
1.4 MHz	QPSK	1850.7	-0.10	1 / 5	22.20	22.10	0.162	33.01	-10.91
		1880.0	-0.10	1 / 0	22.19	22.09	0.162	33.01	-10.92
		1909.3	-0.10	1 / 0	22.20	22.10	0.162	33.01	-10.91
	16-QAM	1880.0	-0.10	1 / 0	21.76	21.66	0.147	33.01	-11.35
	64-QAM	1850.7	-0.10	1 / 5	20.54	20.44	0.111	33.01	-12.57
	256-QAM	1850.7	-0.10	6 / 0	17.54	17.44	0.055	33.01	-15.57

Table 7-9. EIRP Data (LTE Band 2)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 160 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	-0.10	1 / 98	22.01	21.91	0.155	33.01	-11.10
		1882.5	-0.10	1 / 1	22.17	22.07	0.161	33.01	-10.94
		1905.0	-0.10	1 / 1	22.00	21.90	0.155	33.01	-11.11
	QPSK	1860.0	-0.10	1 / 1	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 98	22.19	22.09	0.162	33.01	-10.92
		1905.0	-0.10	1 / 50	22.12	22.02	0.159	33.01	-10.99
	16-QAM	1860.0	-0.10	1 / 98	21.37	21.27	0.134	33.01	-11.74
	64-QAM	1860.0	-0.10	100 / 0	19.60	19.50	0.089	33.01	-13.51
	256-QAM	1882.5	-0.10	1 / 98	17.84	17.74	0.059	33.01	-15.27
15 MHz	$\pi/2$ BPSK	1857.5	-0.10	1 / 73	22.16	22.06	0.161	33.01	-10.95
		1882.5	-0.10	1 / 1	22.08	21.98	0.158	33.01	-11.03
		1907.5	-0.10	1 / 73	22.19	22.09	0.162	33.01	-10.92
	QPSK	1857.5	-0.10	1 / 73	22.20	22.10	0.162	33.01	-10.91
		1882.5	-0.10	1 / 73	22.14	22.04	0.160	33.01	-10.97
		1907.5	-0.10	1 / 73	22.11	22.01	0.159	33.01	-11.00
	16-QAM	1907.5	-0.10	1 / 75	21.43	21.33	0.136	33.01	-11.68
	64-QAM	1882.5	-0.10	1 / 73	19.77	19.67	0.093	33.01	-13.34
	256-QAM	1882.5	-0.10	1 / 1	17.82	17.72	0.059	33.01	-15.29
10 MHz	$\pi/2$ BPSK	1855.0	-0.10	1 / 1	22.08	21.98	0.158	33.01	-11.03
		1882.5	-0.10	1 / 48	22.08	21.98	0.158	33.01	-11.03
		1910.0	-0.10	1 / 25	21.79	21.69	0.148	33.01	-11.32
	QPSK	1855.0	-0.10	1 / 48	22.13	22.03	0.160	33.01	-10.98
		1882.5	-0.10	1 / 48	22.20	22.10	0.162	33.01	-10.91
		1910.0	-0.10	1 / 25	22.10	22.00	0.158	33.01	-11.01
	16-QAM	1910.0	-0.10	1 / 1	21.29	21.19	0.132	33.01	-11.82
	64-QAM	1855.0	-0.10	1 / 25	19.62	19.52	0.090	33.01	-13.49
	256-QAM	1882.5	-0.10	1 / 25	17.73	17.63	0.058	33.01	-15.38
5 MHz	$\pi/2$ BPSK	1852.5	-0.10	1 / 1	22.16	22.06	0.161	33.01	-10.95
		1882.5	-0.10	1 / 1	22.10	22.00	0.158	33.01	-11.01
		1912.5	-0.10	1 / 23	22.20	22.10	0.162	33.01	-10.91
	QPSK	1852.5	-0.10	1 / 12	22.11	22.01	0.159	33.01	-11.00
		1882.5	-0.10	1 / 12	22.19	22.09	0.162	33.01	-10.92
		1912.5	-0.10	1 / 1	22.16	22.06	0.161	33.01	-10.95
	16-QAM	1852.5	-0.10	1 / 23	21.24	21.14	0.130	33.01	-11.87
	64-QAM	1882.5	-0.10	1 / 23	19.55	19.45	0.088	33.01	-13.56
	256-QAM	1852.5	-0.10	1 / 1	17.96	17.86	0.061	33.01	-15.15

Table 7-10. EIRP Data (NR Band n25 – DFTs-OFDM)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 161 of 196

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	-0.10	1 / 98	22.14	22.04	0.160	33.01	-10.97
		1880.0	-0.10	1 / 1	22.04	21.94	0.156	33.01	-11.07
		1900.0	-0.10	1 / 1	22.18	22.08	0.161	33.01	-10.93
	QPSK	1860.0	-0.10	1 / 50	22.14	22.04	0.160	33.01	-10.97
		1880.0	-0.10	1 / 50	22.20	22.10	0.162	33.01	-10.91
		1900.0	-0.10	1 / 50	22.09	21.99	0.158	33.01	-11.02
	16-QAM	1900.0	-0.10	1 / 98	21.17	21.07	0.128	33.01	-11.94
	64-QAM	1900.0	-0.10	1 / 1	19.66	19.56	0.090	33.01	-13.45
	256-QAM	1860.0	-0.10	100 / 0	17.45	17.35	0.054	33.01	-15.66
15 MHz	$\pi/2$ BPSK	1857.5	-0.10	1 / 73	22.13	22.03	0.160	33.01	-10.98
		1880.0	-0.10	1 / 75	22.10	22.00	0.158	33.01	-11.01
		1902.5	-0.10	1 / 75	22.00	21.90	0.155	33.01	-11.11
	QPSK	1857.5	-0.10	1 / 75	22.20	22.10	0.162	33.01	-10.91
		1880.0	-0.10	1 / 73	22.13	22.03	0.160	33.01	-10.98
		1902.5	-0.10	1 / 75	22.20	22.10	0.162	33.01	-10.91
	16-QAM	1880.0	-0.10	1 / 75	20.96	20.86	0.122	33.01	-12.15
	64-QAM	1857.5	-0.10	1 / 75	19.60	19.50	0.089	33.01	-13.51
	256-QAM	1880.0	-0.10	1 / 75	17.69	17.59	0.057	33.01	-15.42
10 MHz	$\pi/2$ BPSK	1855.0	-0.10	1 / 1	22.19	22.09	0.162	33.01	-10.92
		1880.0	-0.10	1 / 25	22.10	22.00	0.158	33.01	-11.01
		1905.0	-0.10	1 / 48	22.06	21.96	0.157	33.01	-11.05
	QPSK	1855.0	-0.10	1 / 1	22.18	22.08	0.161	33.01	-10.93
		1880.0	-0.10	1 / 48	22.20	22.10	0.162	33.01	-10.91
		1905.0	-0.10	1 / 25	22.15	22.05	0.160	33.01	-10.96
	16-QAM	1905.0	-0.10	1 / 1	21.14	21.04	0.127	33.01	-11.97
	64-QAM	1905.0	-0.10	1 / 48	19.80	19.70	0.093	33.01	-13.31
	256-QAM	1880.0	-0.10	1 / 1	17.61	17.51	0.056	33.01	-15.50
5 MHz	$\pi/2$ BPSK	1852.5	-0.10	1 / 23	22.16	22.06	0.161	33.01	-10.95
		1880.0	-0.10	1 / 23	22.10	22.00	0.158	33.01	-11.01
		1907.5	-0.10	1 / 23	22.20	22.10	0.162	33.01	-10.91
	QPSK	1852.5	-0.10	1 / 12	22.19	22.09	0.162	33.01	-10.92
		1880.0	-0.10	1 / 12	22.01	21.91	0.155	33.01	-11.10
		1907.5	-0.10	1 / 12	21.85	21.75	0.150	33.01	-11.26
	16-QAM	1852.5	-0.10	1 / 1	21.54	21.44	0.139	33.01	-11.57
	64-QAM	1880.0	-0.10	1 / 1	19.62	19.52	0.090	33.01	-13.49
	256-QAM	1907.5	-0.10	1 / 73	17.62	17.52	0.056	33.01	-15.49

Table 7-11. EIRP Data (NR Band n2 – DFTs-OFDM)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 162 of 196

GSM/GPRS PCS


Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	27.77	-0.10	27.67	0.585	33.01	-5.34
1880.00	GPRS1900	28.00	-0.10	27.90	0.617	33.01	-5.11
1909.80	GPRS1900	28.00	-0.10	27.90	0.617	33.01	-5.11
1880.00	EDGE1900	22.85	-0.10	22.75	0.188	33.01	-10.26

Table 7-12. EIRP Data (GPRS PCS)

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	21.98	-0.10	21.88	0.154	33.01	-11.13
1880.00	WCDMA1900	22.10	-0.10	22.00	0.158	33.01	-11.01
1907.60	WCDMA1900	22.18	-0.10	22.08	0.161	33.01	-10.93


Table 7-13. EIRP Data (WCDMA PCS)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 163 of 196

7.6.3 Antenna 4b – EIRP


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 99	25.02	21.12	0.129	33.01	-11.89
		1905.0	-3.90	1 / 50	25.04	21.14	0.130	33.01	-11.87
	16-QAM	1905.0	-3.90	1 / 99	24.86	20.96	0.125	33.01	-12.05
	64-QAM	1905.0	-3.90	1 / 99	24.05	20.15	0.104	33.01	-12.86
	256-QAM	1905.0	-3.90	1 / 99	20.84	16.94	0.049	33.01	-16.07
15 MHz	QPSK	1857.5	-3.90	1 / 37	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 37	24.87	20.97	0.125	33.01	-12.04
		1907.5	-3.90	1 / 0	24.97	21.07	0.128	33.01	-11.94
	16-QAM	1857.5	-3.90	1 / 37	24.69	20.79	0.120	33.01	-12.22
	64-QAM	1882.5	-3.90	1 / 0	23.71	19.81	0.096	33.01	-13.20
	256-QAM	1857.5	-3.90	75 / 0	20.71	16.81	0.048	33.01	-16.20
10 MHz	QPSK	1855.0	-3.90	1 / 25	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 49	24.93	21.03	0.127	33.01	-11.98
		1910.0	-3.90	1 / 49	25.02	21.12	0.129	33.01	-11.89
	16-QAM	1855.0	-3.90	1 / 49	24.49	20.59	0.115	33.01	-12.42
	64-QAM	1882.5	-3.90	1 / 49	23.72	19.82	0.096	33.01	-13.19
	256-QAM	1855.0	-3.90	50 / 0	20.75	16.85	0.048	33.01	-16.16
5 MHz	QPSK	1852.5	-3.90	1 / 24	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 12	25.20	21.30	0.135	33.01	-11.71
		1912.5	-3.90	1 / 0	24.96	21.06	0.128	33.01	-11.95
	16-QAM	1852.5	-3.90	1 / 24	24.74	20.84	0.121	33.01	-12.17
	64-QAM	1882.5	-3.90	25 / 0	23.84	19.94	0.099	33.01	-13.07
	256-QAM	1852.5	-3.90	1 / 24	20.72	16.82	0.048	33.01	-16.19
3 MHz	QPSK	1851.5	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
		1913.5	-3.90	1 / 0	24.98	21.08	0.128	33.01	-11.93
	16-QAM	1851.5	-3.90	1 / 14	24.41	20.51	0.112	33.01	-12.50
	64-QAM	1882.5	-3.90	15 / 0	23.89	19.99	0.100	33.01	-13.02
	256-QAM	1913.5	-3.90	15 / 0	20.69	16.79	0.048	33.01	-16.22
1.4 MHz	QPSK	1850.7	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 0	25.04	21.14	0.130	33.01	-11.87
		1914.3	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
	16-QAM	1850.7	-3.90	1 / 0	24.53	20.63	0.116	33.01	-12.38
	64-QAM	1914.3	-3.90	6 / 0	23.94	20.04	0.101	33.01	-12.97
	256-QAM	1850.7	-3.90	6 / 0	20.84	16.94	0.049	33.01	-16.07

Table 7-14. EIRP Data (LTE Band 25)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 164 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	-3.90	1 / 50	25.03	21.13	0.130	33.01	-11.88
		1880.0	-3.90	1 / 99	24.95	21.05	0.127	33.01	-11.96
		1900.0	-3.90	1 / 99	25.20	21.30	0.135	33.01	-11.71
	16-QAM	1860.0	-3.90	1 / 0	24.59	20.69	0.117	33.01	-12.32
	64-QAM	1880.0	-3.90	1 / 99	23.64	19.74	0.094	33.01	-13.27
	256-QAM	1860.0	-3.90	100 / 0	20.67	16.77	0.048	33.01	-16.24
15 MHz	QPSK	1857.5	-3.90	1 / 37	25.20	21.30	0.135	33.01	-11.71
		1880.0	-3.90	1 / 74	24.93	21.03	0.127	33.01	-11.98
		1902.5	-3.90	1 / 74	25.00	21.10	0.129	33.01	-11.91
	16-QAM	1857.5	-3.90	1 / 74	24.67	20.77	0.119	33.01	-12.24
	64-QAM	1880.0	-3.90	1 / 0	23.75	19.85	0.097	33.01	-13.16
	256-QAM	1857.5	-3.90	75 / 0	20.70	16.80	0.048	33.01	-16.21
10 MHz	QPSK	1855.0	-3.90	1 / 49	25.20	21.30	0.135	33.01	-11.71
		1880.0	-3.90	1 / 49	24.90	21.00	0.126	33.01	-12.01
		1905.0	-3.90	1 / 25	25.03	21.13	0.130	33.01	-11.88
	16-QAM	1855.0	-3.90	1 / 49	24.48	20.58	0.114	33.01	-12.43
	64-QAM	1880.0	-3.90	1 / 49	23.73	19.83	0.096	33.01	-13.18
	256-QAM	1855.0	-3.90	50 / 0	20.75	16.85	0.048	33.01	-16.16
5 MHz	QPSK	1852.5	-3.90	1 / 24	25.13	21.23	0.133	33.01	-11.78
		1880.0	-3.90	1 / 24	25.03	21.13	0.130	33.01	-11.88
		1907.5	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
	16-QAM	1907.5	-3.90	1 / 24	24.68	20.78	0.120	33.01	-12.23
	64-QAM	1880.0	-3.90	1 / 24	23.74	19.84	0.096	33.01	-13.17
	256-QAM	1907.5	-3.90	1 / 24	20.82	16.92	0.049	33.01	-16.09
3 MHz	QPSK	1851.5	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
		1880.0	-3.90	1 / 14	24.82	20.92	0.124	33.01	-12.09
		1908.5	-3.90	1 / 14	24.87	20.97	0.125	33.01	-12.04
	16-QAM	1851.5	-3.90	1 / 14	24.36	20.46	0.111	33.01	-12.55
	64-QAM	1880.0	-3.90	1 / 0	23.62	19.72	0.094	33.01	-13.29
	256-QAM	1908.5	-3.90	15 / 0	20.67	16.77	0.048	33.01	-16.24
1.4 MHz	QPSK	1850.7	-3.90	1 / 0	25.18	21.28	0.134	33.01	-11.73
		1880.0	-3.90	1 / 3	25.20	21.30	0.135	33.01	-11.71
		1909.3	-3.90	1 / 0	25.20	21.30	0.135	33.01	-11.71
	16-QAM	1880.0	-3.90	1 / 3	24.57	20.67	0.117	33.01	-12.34
	64-QAM	1880.0	-3.90	1 / 3	23.98	20.08	0.102	33.01	-12.93
	256-QAM	1850.7	-3.90	6 / 0	20.84	16.94	0.049	33.01	-16.07

Table 7-15. EIRP Data (LTE Band 2)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 165 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	-3.90	1 / 50	25.14	21.24	0.133	33.01	-11.77
		1882.5	-3.90	1 / 50	24.89	20.99	0.126	33.01	-12.02
		1905.0	-3.90	1 / 1	25.15	21.25	0.133	33.01	-11.76
	QPSK	1860.0	-3.90	1 / 1	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 98	24.87	20.97	0.125	33.01	-12.04
		1905.0	-3.90	1 / 98	25.14	21.24	0.133	33.01	-11.77
	16-QAM	1905.0	-3.90	1 / 98	24.23	20.33	0.108	33.01	-12.68
	64-QAM	1905.0	-3.90	100 / 0	22.65	18.75	0.075	33.01	-14.26
	256-QAM	1860.0	-3.90	1 / 50	20.64	16.74	0.047	33.01	-16.27
15 MHz	$\pi/2$ BPSK	1857.5	-3.90	1 / 73	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 1	25.20	21.30	0.135	33.01	-11.71
		1907.5	-3.90	1 / 1	25.18	21.28	0.134	33.01	-11.73
	QPSK	1857.5	-3.90	1 / 75	25.17	21.27	0.134	33.01	-11.74
		1882.5	-3.90	1 / 1	25.17	21.27	0.134	33.01	-11.74
		1907.5	-3.90	1 / 1	25.14	21.24	0.133	33.01	-11.77
	16-QAM	1907.5	-3.90	1 / 1	24.54	20.64	0.116	33.01	-12.37
	64-QAM	1907.5	-3.90	1 / 1	23.16	19.26	0.084	33.01	-13.75
	256-QAM	1882.5	-3.90	1 / 73	20.84	16.94	0.049	33.01	-16.07
10 MHz	$\pi/2$ BPSK	1855.0	-3.90	1 / 25	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 48	25.19	21.29	0.135	33.01	-11.72
		1910.0	-3.90	1 / 25	25.10	21.20	0.132	33.01	-11.81
	QPSK	1855.0	-3.90	1 / 1	25.19	21.29	0.135	33.01	-11.72
		1882.5	-3.90	1 / 48	25.20	21.30	0.135	33.01	-11.71
		1910.0	-3.90	1 / 1	25.13	21.23	0.133	33.01	-11.78
	16-QAM	1882.5	-3.90	1 / 48	24.60	20.70	0.117	33.01	-12.31
	64-QAM	1855.0	-3.90	1 / 25	23.15	19.25	0.084	33.01	-13.76
	256-QAM	1855.0	-3.90	1 / 48	21.28	17.38	0.055	33.01	-15.63
5 MHz	$\pi/2$ BPSK	1852.5	-3.90	1 / 1	25.20	21.30	0.135	33.01	-11.71
		1882.5	-3.90	1 / 12	25.16	21.26	0.134	33.01	-11.75
		1912.5	-3.90	1 / 12	25.14	21.24	0.133	33.01	-11.77
	QPSK	1852.5	-3.90	1 / 12	24.98	21.08	0.128	33.01	-11.93
		1882.5	-3.90	1 / 1	25.13	21.23	0.133	33.01	-11.78
		1912.5	-3.90	1 / 23	25.20	21.30	0.135	33.01	-11.71
	16-QAM	1912.5	-3.90	1 / 1	24.25	20.35	0.108	33.01	-12.66
	64-QAM	1882.5	-3.90	1 / 12	22.52	18.62	0.073	33.01	-14.39
	256-QAM	1882.5	-0.10	1 / 75	20.83	20.73	0.118	33.01	-12.28

Table 7-16. EIRP Data (NR Band n25 – DFTs-OFDM)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 166 of 196

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	-3.90	1 / 1	25.20	21.30	0.135	33.01	-11.71
		1880.0	-3.90	1 / 98	25.06	21.16	0.131	33.01	-11.85
		1900.0	-3.90	1 / 50	25.08	21.18	0.131	33.01	-11.83
	QPSK	1860.0	-3.90	1 / 50	25.17	21.27	0.134	33.01	-11.74
		1880.0	-3.90	1 / 98	25.17	21.27	0.134	33.01	-11.74
		1900.0	-3.90	1 / 50	25.10	21.20	0.132	33.01	-11.81
	16-QAM	1860.0	-3.90	1 / 98	23.97	20.07	0.102	33.01	-12.94
	64-QAM	1900.0	-3.90	1 / 1	23.03	19.13	0.082	33.01	-13.88
	256-QAM	1900.0	-3.90	1 / 0	20.73	16.83	0.048	33.01	-16.18
15 MHz	$\pi/2$ BPSK	1857.5	-3.90	1 / 1	25.09	21.19	0.132	33.01	-11.82
		1880.0	-3.90	1 / 1	25.20	21.30	0.135	33.01	-11.71
		1902.5	-3.90	1 / 1	25.01	21.11	0.129	33.01	-11.90
	QPSK	1857.5	-3.90	1 / 73	25.20	21.30	0.135	33.01	-11.71
		1880.0	-3.90	1 / 1	25.19	21.29	0.135	33.01	-11.72
		1902.5	-3.90	1 / 1	25.17	21.27	0.134	33.01	-11.74
	16-QAM	1880.0	-3.90	1 / 73	24.19	20.29	0.107	33.01	-12.72
	64-QAM	1902.5	-3.90	1 / 73	22.90	19.00	0.079	33.01	-14.01
	256-QAM	1880.0	-3.90	1 / 1	21.00	17.10	0.051	33.01	-15.91
10 MHz	$\pi/2$ BPSK	1855.0	-3.90	1 / 25	25.09	21.19	0.132	33.01	-11.82
		1880.0	-3.90	1 / 48	25.15	21.25	0.133	33.01	-11.76
		1905.0	-3.90	1 / 1	25.08	21.18	0.131	33.01	-11.83
	QPSK	1855.0	-3.90	1 / 25	25.18	21.28	0.134	33.01	-11.73
		1880.0	-3.90	1 / 25	25.20	21.30	0.135	33.01	-11.71
		1905.0	-3.90	1 / 25	24.92	21.02	0.126	33.01	-11.99
	16-QAM	1905.0	-3.90	1 / 48	24.15	20.25	0.106	33.01	-12.76
	64-QAM	1855.0	-3.90	1 / 48	22.89	18.99	0.079	33.01	-14.02
	256-QAM	1905.0	-3.90	1 / 48	21.08	17.18	0.052	33.01	-15.83
5 MHz	$\pi/2$ BPSK	1852.5	-3.90	1 / 12	25.10	21.20	0.132	33.01	-11.81
		1880.0	-3.90	1 / 12	25.13	21.23	0.133	33.01	-11.78
		1907.5	-3.90	1 / 12	25.10	21.20	0.132	33.01	-11.81
	QPSK	1852.5	-3.90	1 / 1	25.20	21.30	0.135	33.01	-11.71
		1880.0	-3.90	1 / 23	25.14	21.24	0.133	33.01	-11.77
		1907.5	-3.90	1 / 1	25.14	21.24	0.133	33.01	-11.77
	16-QAM	1880.0	-3.90	1 / 23	24.16	20.26	0.106	33.01	-12.75
	64-QAM	1907.5	-3.90	1 / 12	22.80	18.90	0.078	33.01	-14.11
	256-QAM	1907.5	-3.90	1 / 73	20.81	16.91	0.049	33.01	-16.10

Table 7-17. EIRP Data (NR Band n2 – DFTs-OFDM)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 167 of 196

GSM/GPRS PCS


Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	30.89	-3.90	26.99	0.500	33.01	-6.02
1880.00	GPRS1900	30.99	-3.90	27.09	0.512	33.01	-5.92
1909.80	GPRS1900	30.93	-3.90	27.03	0.505	33.01	-5.98
1880.00	EDGE1900	26.00	-3.90	22.10	0.162	33.01	-10.91

Table 7-18. EIRP Data (GPRS PCS)

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.12	-3.90	21.22	0.132	33.01	-11.79
1880.00	WCDMA1900	25.15	-3.90	21.25	0.133	33.01	-11.76
1907.60	WCDMA1900	25.19	-3.90	21.29	0.135	33.01	-11.72


Table 7-19. EIRP Data (WCDMA PCS)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 168 of 196

7.6.4 Antenna 2b – EIRP


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	-4.50	1 / 0	22.20	17.70	0.059	33.01	-15.31
		1882.5	-4.50	1 / 0	22.16	17.66	0.058	33.01	-15.35
		1905.0	-4.50	1 / 0	22.20	17.70	0.059	33.01	-15.31
	16-QAM	1860.0	-4.50	1 / 50	21.76	17.26	0.053	33.01	-15.75
	64-QAM	1882.5	-4.50	1 / 0	20.83	16.33	0.043	33.01	-16.68
	256-QAM	1860.0	-4.50	1 / 0	17.71	13.21	0.021	33.01	-19.80
15 MHz	QPSK	1857.5	-4.50	1 / 74	22.20	17.70	0.059	33.01	-15.31
		1882.5	-4.50	1 / 0	22.10	17.60	0.058	33.01	-15.41
		1907.5	-4.50	1 / 37	22.12	17.62	0.058	33.01	-15.39
	16-QAM	1857.5	-4.50	1 / 0	21.70	17.20	0.052	33.01	-15.81
	64-QAM	1882.5	-4.50	1 / 0	20.94	16.44	0.044	33.01	-16.57
	256-QAM	1857.5	-4.50	1 / 37	17.58	13.08	0.020	33.01	-19.93
10 MHz	QPSK	1855.0	-4.50	1 / 49	22.20	17.70	0.059	33.01	-15.31
		1882.5	-4.50	1 / 0	22.14	17.64	0.058	33.01	-15.37
		1910.0	-4.50	1 / 49	22.18	17.68	0.059	33.01	-15.33
	16-QAM	1882.5	-4.50	1 / 0	21.54	17.04	0.051	33.01	-15.97
	64-QAM	1882.5	-4.50	1 / 0	20.96	16.46	0.044	33.01	-16.55
	256-QAM	1855.0	-4.50	1 / 49	17.78	13.28	0.021	33.01	-19.73
5 MHz	QPSK	1852.5	-4.50	1 / 24	22.20	17.70	0.059	33.01	-15.31
		1882.5	-4.50	25 / 0	22.20	17.70	0.059	33.01	-15.31
		1912.5	-4.50	1 / 12	21.89	17.39	0.055	33.01	-15.62
	16-QAM	1852.5	-4.50	1 / 0	21.76	17.26	0.053	33.01	-15.75
	64-QAM	1882.5	-4.50	1 / 24	20.69	16.19	0.042	33.01	-16.82
	256-QAM	1912.5	-4.50	1 / 24	17.96	13.46	0.022	33.01	-19.55
3 MHz	QPSK	1851.5	-4.50	1 / 0	22.19	17.69	0.059	33.01	-15.32
		1882.5	-4.50	1 / 14	22.00	17.50	0.056	33.01	-15.51
		1913.5	-4.50	1 / 14	22.20	17.70	0.059	33.01	-15.31
	16-QAM	1851.5	-4.50	1 / 0	21.59	17.09	0.051	33.01	-15.92
	64-QAM	1851.5	-4.50	1 / 0	21.01	16.51	0.045	33.01	-16.50
	256-QAM	1913.5	-4.50	1 / 0	17.61	13.11	0.020	33.01	-19.90
1.4 MHz	QPSK	1850.7	-4.50	1 / 3	22.20	17.70	0.059	33.01	-15.31
		1882.5	-4.50	1 / 5	22.20	17.70	0.059	33.01	-15.31
		1914.3	-4.50	1 / 5	22.15	17.65	0.058	33.01	-15.36
	16-QAM	1850.7	-4.50	1 / 3	21.55	17.05	0.051	33.01	-15.96
	64-QAM	1882.5	-4.50	6 / 0	20.72	16.22	0.042	33.01	-16.79
	256-QAM	1850.7	-4.50	1 / 3	17.70	13.20	0.021	33.01	-19.81

Table 7-20. EIRP Data (LTE Band 25)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 169 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	-4.50	1 / 50	22.20	17.70	0.059	33.01	-15.31
		1880.0	-4.50	1 / 99	21.99	17.49	0.056	33.01	-15.52
		1900.0	-4.50	1 / 99	21.99	17.49	0.056	33.01	-15.52
	16-QAM	1880.0	-4.50	1 / 50	21.45	16.95	0.050	33.01	-16.06
	64-QAM	1900.0	-4.50	1 / 99	20.71	16.21	0.042	33.01	-16.80
	256-QAM	1860.0	-4.50	100 / 0	17.58	13.08	0.020	33.01	-19.93
15 MHz	QPSK	1857.5	-4.50	1 / 74	22.20	17.70	0.059	33.01	-15.31
		1880.0	-4.50	1 / 37	22.20	17.70	0.059	33.01	-15.31
		1902.5	-4.50	1 / 74	22.18	17.68	0.059	33.01	-15.33
	16-QAM	1857.5	-4.50	1 / 74	21.74	17.24	0.053	33.01	-15.77
	64-QAM	1880.0	-4.50	1 / 37	21.03	16.53	0.045	33.01	-16.48
	256-QAM	1857.5	-4.50	1 / 74	17.64	13.14	0.021	33.01	-19.87
10 MHz	QPSK	1855.0	-4.50	1 / 25	22.20	17.70	0.059	33.01	-15.31
		1880.0	-4.50	1 / 25	22.15	17.65	0.058	33.01	-15.36
		1905.0	-4.50	1 / 25	22.02	17.52	0.056	33.01	-15.49
	16-QAM	1880.0	-4.50	1 / 49	21.60	17.10	0.051	33.01	-15.91
	64-QAM	1880.0	-4.50	1 / 49	21.02	16.52	0.045	33.01	-16.49
	256-QAM	1855.0	-4.50	1 / 25	17.78	13.28	0.021	33.01	-19.73
5 MHz	QPSK	1852.5	-4.50	1 / 0	21.71	17.21	0.053	33.01	-15.80
		1880.0	-4.50	1 / 12	22.02	17.52	0.056	33.01	-15.49
		1907.5	-4.50	1 / 24	22.20	17.70	0.059	33.01	-15.31
	16-QAM	1907.5	-4.50	1 / 24	21.63	17.13	0.052	33.01	-15.88
	64-QAM	1880.0	-4.50	1 / 24	20.74	16.24	0.042	33.01	-16.77
	256-QAM	1852.5	-4.50	1 / 24	17.96	13.46	0.022	33.01	-19.55
3 MHz	QPSK	1851.5	-4.50	1 / 7	22.00	17.50	0.056	33.01	-15.51
		1880.0	-4.50	1 / 14	22.20	17.70	0.059	33.01	-15.31
		1908.5	-4.50	1 / 0	22.19	17.69	0.059	33.01	-15.32
	16-QAM	1908.5	-4.50	1 / 0	21.57	17.07	0.051	33.01	-15.94
	64-QAM	1880.0	-4.50	1 / 0	20.98	16.48	0.044	33.01	-16.53
	256-QAM	1851.5	-4.50	1 / 7	17.96	13.46	0.022	33.01	-19.55
1.4 MHz	QPSK	1850.7	-4.50	1 / 3	21.89	17.39	0.055	33.01	-15.62
		1880.0	-4.50	1 / 0	22.13	17.63	0.058	33.01	-15.38
		1909.3	-4.50	1 / 0	22.20	17.70	0.059	33.01	-15.31
	16-QAM	1880.0	-4.50	1 / 0	21.60	17.10	0.051	33.01	-15.91
	64-QAM	1880.0	-4.50	1 / 0	21.00	16.50	0.045	33.01	-16.51
	256-QAM	1850.7	-4.50	1 / 0	17.91	13.41	0.022	33.01	-19.60

Table 7-21. EIRP Data (LTE Band 2)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 170 of 196


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	-4.50	1 / 50	22.19	17.69	0.059	33.01	-15.32
		1882.5	-4.50	1 / 50	22.03	17.53	0.057	33.01	-15.48
		1905.0	-4.50	1 / 1	22.16	17.66	0.058	33.01	-15.35
	QPSK	1860.0	-4.50	1 / 1	22.20	17.70	0.059	33.01	-15.31
		1882.5	-4.50	1 / 50	22.10	17.60	0.058	33.01	-15.41
		1905.0	-4.50	1 / 1	22.08	17.58	0.057	33.01	-15.43
	16-QAM	1860.0	-4.50	1 / 50	21.15	16.65	0.046	33.01	-16.36
	64-QAM	1882.5	-4.50	1 / 98	19.78	15.28	0.034	33.01	-17.73
	256-QAM	1905.0	-4.50	1 / 99	17.96	13.46	0.022	33.01	-19.55
15 MHz	$\pi/2$ BPSK	1857.5	-4.50	1 / 1	22.11	17.61	0.058	33.01	-15.40
		1882.5	-4.50	1 / 1	22.04	17.54	0.057	33.01	-15.47
		1907.5	-4.50	1 / 1	22.17	17.67	0.058	33.01	-15.34
	QPSK	1857.5	-4.50	1 / 1	22.20	17.70	0.059	33.01	-15.31
		1882.5	-4.50	1 / 75	22.12	17.62	0.058	33.01	-15.39
		1907.5	-4.50	1 / 75	22.18	17.68	0.059	33.01	-15.33
	16-QAM	1882.5	-4.50	1 / 1	21.02	16.52	0.045	33.01	-16.49
	64-QAM	1907.5	-4.50	1 / 73	19.80	15.30	0.034	33.01	-17.71
	256-QAM	1907.5	-4.50	75 / 0	17.60	13.10	0.020	33.01	-19.91
10 MHz	$\pi/2$ BPSK	1855.0	-4.50	1 / 25	22.01	17.51	0.056	33.01	-15.50
		1882.5	-4.50	1 / 25	22.09	17.59	0.057	33.01	-15.42
		1910.0	-4.50	1 / 25	22.20	17.70	0.059	33.01	-15.31
	QPSK	1855.0	-4.50	1 / 25	21.83	17.33	0.054	33.01	-15.68
		1882.5	-4.50	1 / 1	22.15	17.65	0.058	33.01	-15.36
		1910.0	-4.50	1 / 48	21.96	17.46	0.056	33.01	-15.55
	16-QAM	1882.5	-4.50	1 / 48	21.01	16.51	0.045	33.01	-16.50
	64-QAM	1855.0	-4.50	50 / 0	19.66	15.16	0.033	33.01	-17.85
	256-QAM	1855.0	-4.50	50 / 0	17.72	13.22	0.021	33.01	-19.79
5 MHz	$\pi/2$ BPSK	1852.5	-4.50	1 / 1	22.10	17.60	0.058	33.01	-15.41
		1882.5	-4.50	1 / 23	22.18	17.68	0.059	33.01	-15.33
		1912.5	-4.50	1 / 12	22.08	17.58	0.057	33.01	-15.43
	QPSK	1852.5	-4.50	1 / 1	22.19	17.69	0.059	33.01	-15.32
		1882.5	-4.50	1 / 23	22.20	17.70	0.059	33.01	-15.31
		1912.5	-4.50	1 / 12	22.10	17.60	0.058	33.01	-15.41
	16-QAM	1852.5	-4.50	1 / 1	21.23	16.73	0.047	33.01	-16.28
	64-QAM	1852.5	-4.50	1 / 1	19.96	15.46	0.035	33.01	-17.55
	256-QAM	1912.5	1.50	1 / 1	17.75	19.25	0.084	33.01	-13.76

Table 7-22. EIRP Data (NR Band n25 – DFTs-OFDM)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 171 of 196

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	1860.0	-4.50	1 / 98	22.20	17.70	0.059	33.01	-15.31
		1880.0	-4.50	1 / 98	21.99	17.49	0.056	33.01	-15.52
		1900.0	-4.50	1 / 50	22.10	17.60	0.058	33.01	-15.41
	QPSK	1860.0	-4.50	1 / 1	22.18	17.68	0.059	33.01	-15.33
		1880.0	-4.50	1 / 50	22.07	17.57	0.057	33.01	-15.44
		1900.0	-4.50	1 / 98	22.15	17.65	0.058	33.01	-15.36
	16-QAM	1860.0	-4.50	1 / 1	21.55	17.05	0.051	33.01	-15.96
	64-QAM	1880.0	-4.50	1 / 50	19.96	15.46	0.035	33.01	-17.55
	256-QAM	1860.0	-4.50	1 / 1	18.13	13.63	0.023	33.01	-19.38
15 MHz	$\pi/2$ BPSK	1857.5	-4.50	1 / 1	22.14	17.64	0.058	33.01	-15.37
		1880.0	-4.50	1 / 75	22.00	17.50	0.056	33.01	-15.51
		1902.5	-4.50	1 / 1	22.08	17.58	0.057	33.01	-15.43
	QPSK	1857.5	-4.50	1 / 73	22.20	17.70	0.059	33.01	-15.31
		1880.0	-4.50	1 / 73	22.03	17.53	0.057	33.01	-15.48
		1902.5	-4.50	1 / 1	22.02	17.52	0.056	33.01	-15.49
	16-QAM	1880.0	-4.50	1 / 1	21.40	16.90	0.049	33.01	-16.11
	64-QAM	1857.5	-4.50	75 / 0	19.76	15.26	0.034	33.01	-17.75
	256-QAM	1902.5	-4.50	1 / 1	17.98	13.48	0.022	33.01	-19.53
10 MHz	$\pi/2$ BPSK	1855.0	-4.50	1 / 25	22.20	17.70	0.059	33.01	-15.31
		1880.0	-4.50	1 / 1	21.90	17.40	0.055	33.01	-15.61
		1905.0	-4.50	1 / 48	22.02	17.52	0.056	33.01	-15.49
	QPSK	1855.0	-4.50	1 / 25	22.15	17.65	0.058	33.01	-15.36
		1880.0	-4.50	1 / 25	22.18	17.68	0.059	33.01	-15.33
		1905.0	-4.50	1 / 1	22.13	17.63	0.058	33.01	-15.38
	16-QAM	1855.0	-4.50	1 / 48	21.53	17.03	0.050	33.01	-15.98
	64-QAM	1880.0	-4.50	1 / 1	19.81	15.31	0.034	33.01	-17.70
	256-QAM	1855.0	-4.50	1 / 48	17.95	13.45	0.022	33.01	-19.56
5 MHz	$\pi/2$ BPSK	1852.5	-4.50	1 / 1	22.17	17.67	0.058	33.01	-15.34
		1880.0	-4.50	1 / 23	22.20	17.70	0.059	33.01	-15.31
		1907.5	-4.50	1 / 1	22.15	17.65	0.058	33.01	-15.36
	QPSK	1852.5	-4.50	1 / 1	22.10	17.60	0.058	33.01	-15.41
		1880.0	-4.50	1 / 23	21.91	17.41	0.055	33.01	-15.60
		1907.5	-4.50	1 / 23	22.01	17.51	0.056	33.01	-15.50
	16-QAM	1907.5	-4.50	1 / 23	21.13	16.63	0.046	33.01	-16.38
	64-QAM	1852.5	-4.50	1 / 23	19.84	15.34	0.034	33.01	-17.67
	256-QAM	1852.5	-4.50	25 / 0	17.97	13.47	0.022	33.01	-19.54

Table 7-23. EIRP Data (NR Band n2 – DFTs-OFDM)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 172 of 196

GSM/GPRS PCS


Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	28.00	-4.50	23.50	0.224	33.01	-9.51
1880.00	GPRS1900	27.98	-4.50	23.48	0.223	33.01	-9.53
1909.80	GPRS1900	27.95	-4.50	23.45	0.221	33.01	-9.56
1850.20	EDGE1900	22.91	-4.50	18.41	0.069	33.01	-14.60

Table 7-24. EIRP Data (GPRS PCS)

WCDMA PCS

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	22.16	-4.50	17.66	0.058	33.01	-15.35
1880.00	WCDMA1900	22.10	-4.50	17.60	0.058	33.01	-15.41
1907.60	WCDMA1900	22.15	-4.50	17.65	0.058	33.01	-15.36

Table 7-25. EIRP Data (WCDMA PCS)

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 173 of 196

7.7 Radiated Spurious Emissions

§2.1053, 24.238(a)

Test Overview


Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

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

FCC ID: BCGA2301	 PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 174 of 196

Test Setup

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

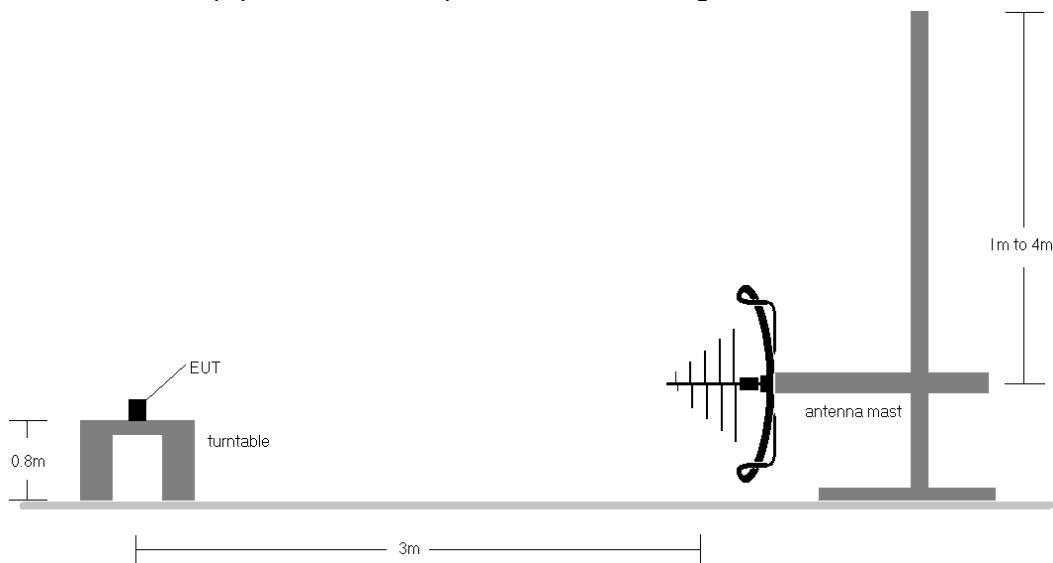


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

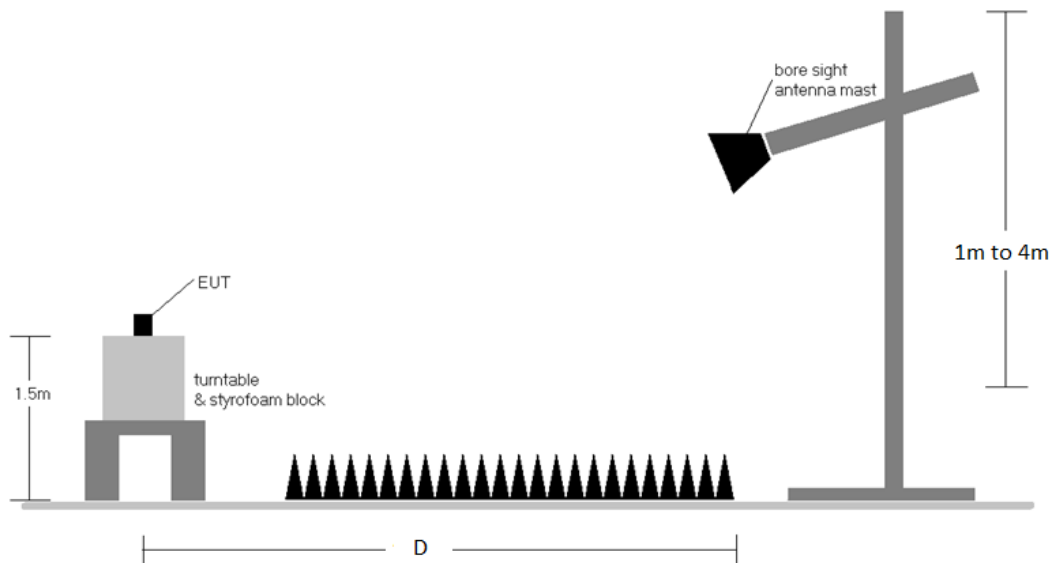



Figure 7-7. Test Instrument & Measurement Setup >1 GHz

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-03.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 175 of 196

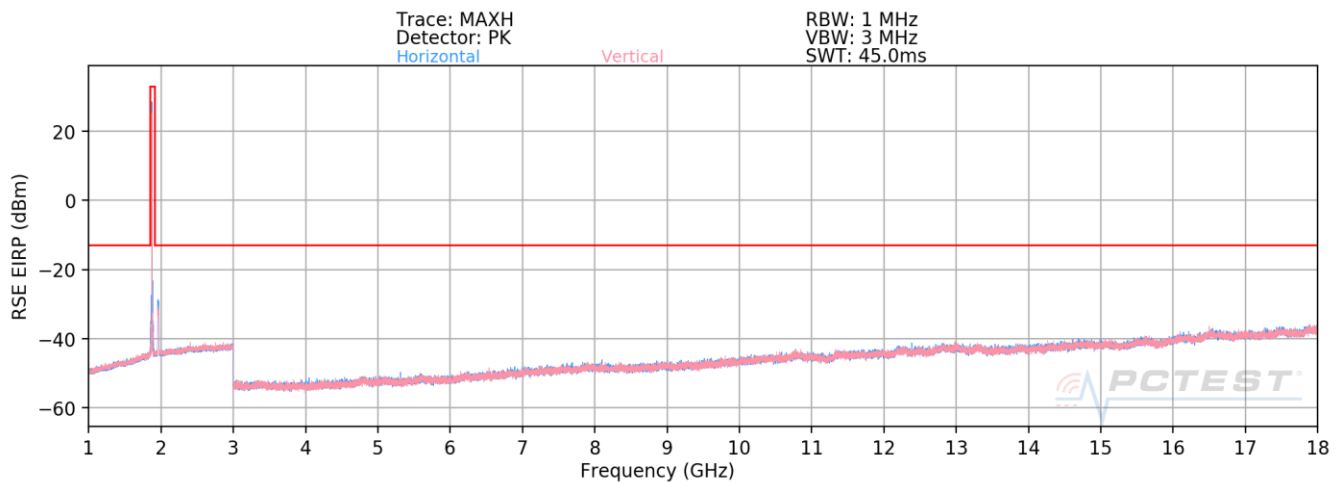
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - b) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) 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.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 8) No significant emissions were found for below 1GHz and Above 18GHz measurement.
- 9) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 10) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.
- 11) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been included in this section. Spurious emissions from the NR and LTE carriers are subject to their own respective limits.

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7.7.1 Antenna 3 – Radiated Spurious Emission Measurement

LTE Band 25/2



Plot 7-263. Radiated Spurious Plot (LTE Band 25/2)

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Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	H	-	-	-78.77	3.95	32.18	-63.07	-13.00	-50.07
5580.0	V	192	124	-77.52	6.30	35.78	-59.48	-13.00	-46.48
7440.0	H	-	-	-80.54	8.97	35.43	-59.83	-13.00	-46.83
9300.0	H	-	-	-80.75	10.78	37.03	-58.23	-13.00	-45.23
11160.0	H	-	-	-81.96	13.38	38.42	-56.84	-13.00	-43.84

Table 7-26. Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	-	-	-79.30	4.24	31.94	-63.31	-13.00	-50.31
5647.5	V	260	131	-76.75	6.50	36.75	-58.51	-13.00	-45.51
7530.0	H	-	-	-81.10	9.06	34.96	-60.30	-13.00	-47.30
9412.5	H	-	-	-81.10	11.27	37.17	-58.09	-13.00	-45.09
11295.0	H	-	-	-82.34	13.42	38.08	-57.17	-13.00	-44.17

Table 7-27. Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

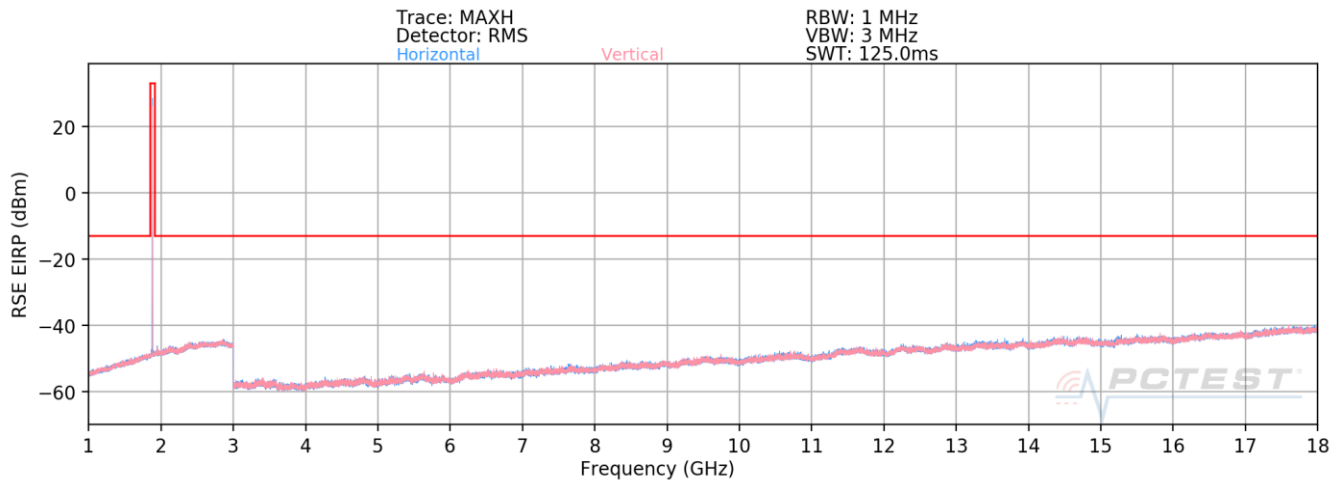
Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	H	-	-	-79.36	4.64	32.28	-62.98	-13.00	-49.98
5715.00	V	288	126	-76.81	6.51	36.70	-58.55	-13.00	-45.55
7620.00	H	-	-	-80.58	8.74	35.16	-60.10	-13.00	-47.10
9525.00	H	-	-	-81.34	11.12	36.78	-58.48	-13.00	-45.48
11430.00	H	-	-	-82.42	13.70	38.28	-56.98	-13.00	-43.98

Table 7-28. Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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GSM/GPRS PCS



Plot 7-264. Radiated Spurious Plot (GPRS PCS)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3700.4	V	-	-	-76.14	4.52	35.38	-59.88	-13.00	-46.88
5550.6	V	106	210	-69.59	7.67	45.08	-50.17	-13.00	-37.17
7400.8	V	-	-	-77.44	10.60	40.16	-55.09	-13.00	-42.09
9251.0	V	-	-	-78.71	14.05	42.34	-52.92	-13.00	-39.92
11101.2	V	-	-	-80.00	15.90	42.90	-52.36	-13.00	-39.36

Table 7-29. Radiated Spurious Data (GPRS PCS – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	V	-	-	-76.07	4.87	35.80	-59.46	-13.00	-46.46
5640.0	V	130	75	-69.51	8.64	46.13	-49.13	-13.00	-36.13
7520.0	V	-	-	-77.11	11.07	40.96	-54.30	-13.00	-41.30
9400.0	V	-	-	-77.44	13.22	42.78	-52.48	-13.00	-39.48
11280.0	V	-	-	-78.52	16.07	44.55	-50.71	-13.00	-37.71

Table 7-30. Radiated Spurious Data (GPRS PCS – Mid Channel)

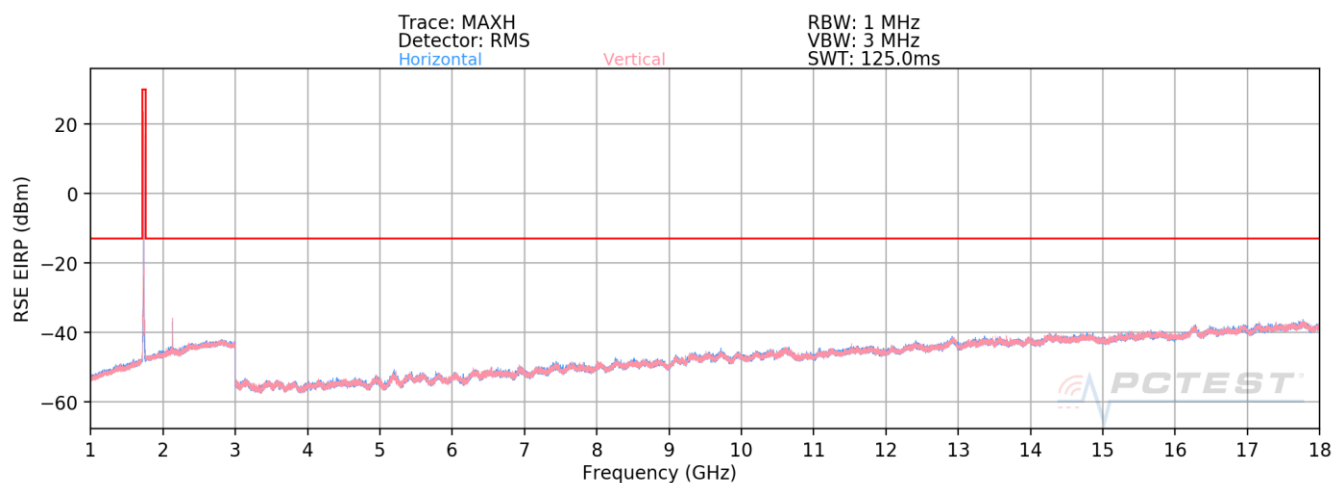
Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.6	V	358	161	-69.23	5.25	43.02	-52.24	-13.00	-39.24
5729.4	V	269	311	-76.13	7.61	38.48	-56.78	-13.00	-43.78
7639.2	V	-	-	-77.50	11.56	41.06	-54.19	-13.00	-41.19
9549.0	V	-	-	-78.78	14.75	42.97	-52.29	-13.00	-39.29
11458.8	V	-	-	-78.58	17.07	45.49	-49.77	-13.00	-36.77

Table 7-31. Radiated Spurious Data (GPRS PCS – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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WCDMA PCS



Plot 7-265. Radiated Spurious Plot (WCDMA PCS)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	H	-	-	-78.43	4.52	33.09	-62.16	-13.00	-49.16
5557.2	H	-	-	-78.66	7.90	36.24	-59.02	-13.00	-46.02
7409.6	H	-	-	-79.49	10.69	38.20	-57.06	-13.00	-44.06

Table 7-32. Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	H	-	-	-78.67	4.87	33.20	-62.06	-13.00	-49.06
5640.0	H	-	-	-79.25	8.64	36.39	-58.87	-13.00	-45.87
7520.0	H	-	-	-79.44	11.07	38.63	-56.63	-13.00	-43.63

Table 7-33. Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	H	-	-	-78.93	5.18	33.25	-62.01	-13.00	-49.01
5722.8	H	-	-	-79.11	7.81	35.70	-59.56	-13.00	-46.56
7630.4	H	-	-	-80.13	11.52	38.39	-56.87	-13.00	-43.87

Table 7-34. Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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7.7.2 Antenna 1 – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	H	228	241	-76.60	4.90	35.30	-59.96	-13.00	-46.96
5580.0	H	-	-	-78.62	8.07	36.45	-58.80	-13.00	-45.80
7440.0	H	-	-	-79.79	10.85	38.06	-57.20	-13.00	-44.20
9300.0	H	-	-	-81.14	13.88	39.74	-55.52	-13.00	-42.52

Table 7-35. Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	H	248	235	-75.20	4.73	36.53	-58.73	-13.00	-45.73
5647.5	H	-	-	-79.38	8.69	36.31	-58.95	-13.00	-45.95
7530.0	H	-	-	-79.77	11.09	38.32	-56.94	-13.00	-43.94
9412.5	H	-	-	-79.99	13.84	40.85	-54.40	-13.00	-41.40

Table 7-36. Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	171	228	-78.68	4.45	32.77	-62.49	-13.00	-49.49
5715.00	H	-	-	-79.89	8.02	35.13	-60.12	-13.00	-47.12
7620.00	H	-	-	-80.29	10.92	37.63	-57.63	-13.00	-44.63
9525.00	H	-	-	-80.12	14.08	40.96	-54.30	-13.00	-41.30

Table 7-37. Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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GSM/GPRS PCS

Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3700.4	H	-	-	-76.57	4.52	34.95	-60.31	-13.00	-47.31
5550.6	H	-	-	-77.42	7.67	37.25	-58.00	-13.00	-45.00
7400.8	H	-	-	-77.63	10.60	39.97	-55.28	-13.00	-42.28

Table 7-38. Radiated Spurious Data (GPRS PCS – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	H	245	210	-70.24	4.87	41.63	-53.63	-13.00	-40.63
5640.0	V	265	146	-71.59	8.64	44.05	-51.21	-13.00	-38.21
7520.0	H	-	-	-76.92	11.07	41.15	-54.11	-13.00	-41.11
9400.0	H	-	-	-77.25	13.22	42.97	-52.29	-13.00	-39.29
11280.0	H	-	-	-78.73	16.07	44.34	-50.92	-13.00	-37.92

Table 7-39. Radiated Spurious Data (GPRS PCS – Mid Channel)

Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.6	H	268	244	-70.49	5.25	41.76	-53.50	-13.00	-40.50
5729.4	V	265	149	-74.42	7.61	40.19	-55.07	-13.00	-42.07
7639.2	H	-	-	-77.94	11.56	40.62	-54.63	-13.00	-41.63
9549.0	H	-	-	-78.89	14.75	42.86	-52.40	-13.00	-39.40
11458.8	H	-	-	-78.24	17.07	45.83	-49.43	-13.00	-36.43

Table 7-40. Radiated Spurious Data (GPRS PCS – High Channel)

FCC ID: BCGA2301	 <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	V	-	-	-78.36	4.52	33.16	-62.09	-13.00	-49.09
5557.2	V	-	-	-78.63	7.90	36.27	-58.99	-13.00	-45.99
7409.6	V	-	-	-79.51	10.69	38.18	-57.08	-13.00	-44.08

Table 7-41. Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	V	-	-	-78.57	4.87	33.30	-61.96	-13.00	-48.96
5640.0	V	-	-	-79.22	8.64	36.42	-58.84	-13.00	-45.84
7520.0	V	-	-	-79.20	11.07	38.87	-56.39	-13.00	-43.39

Table 7-42. Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	V	-	-	-78.90	5.18	33.28	-61.98	-13.00	-48.98
5722.8	V	-	-	-78.32	7.81	36.49	-58.77	-13.00	-45.77
7630.4	V	-	-	-80.04	11.52	38.48	-56.78	-13.00	-43.78

Table 7-43. Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA2301	 <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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7.7.3 Antenna 4b – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	V	-	-	-81.72	7.61	32.89	-62.37	-13.00	-49.37
5580.0	V	113	205	-74.82	10.67	42.85	-52.41	-13.00	-39.41
7440.0	V	-	-	-84.38	14.77	37.39	-57.87	-13.00	-44.87
9300.0	V	-	-	-85.51	17.06	38.55	-56.70	-13.00	-43.70
11160.0	V	-	-	-85.87	19.81	40.94	-54.31	-13.00	-41.31

Table 7-44. Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	-	-	-81.48	7.30	32.82	-62.44	-13.00	-49.44
5647.5	V	109	174	-71.05	10.37	46.32	-48.94	-13.00	-35.94
7530.0	V	-	-	-84.60	15.03	37.43	-57.83	-13.00	-44.83
9412.5	V	-	-	-86.13	18.09	38.96	-56.30	-13.00	-43.30
11295.0	V	-	-	-86.08	20.04	40.96	-54.30	-13.00	-41.30

Table 7-45. Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	H	302	141	-79.37	6.98	34.61	-60.65	-13.00	-47.65
5715.00	H	224	236	-74.42	9.97	42.55	-52.70	-13.00	-39.70
7620.00	V	-	-	-84.54	14.80	37.26	-57.99	-13.00	-44.99
9525.00	V	-	-	-85.95	18.29	39.34	-55.92	-13.00	-42.92
11430.00	V	-	-	-85.72	20.10	41.38	-53.88	-13.00	-40.88

Table 7-46. Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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GSM/GPRS PCS

Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3700.4	V	370	158	-72.97	4.52	38.55	-56.71	-13.00	-43.71
5550.6	V	395	116	-73.83	7.67	40.84	-54.41	-13.00	-41.41
7400.8	-	-	-	-77.18	10.60	40.42	-54.83	-13.00	-41.83
9251.0	-	-	-	-78.58	14.05	42.47	-52.79	-13.00	-39.79
11101.2	-	-	-	-79.76	15.90	43.14	-52.12	-13.00	-39.12

Table 7-47. Radiated Spurious Data (GPRS PCS – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	-	-	-	-76.23	4.87	35.64	-59.62	-13.00	-46.62
5640.0	-	-	-	-77.78	8.64	37.86	-57.40	-13.00	-44.40
7520.0	-	-	-	-77.97	11.07	40.10	-55.16	-13.00	-42.16

Table 7-48. Radiated Spurious Data (GPRS PCS – Mid Channel)

Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.6	V	334	169	-73.96	5.25	38.29	-56.97	-13.00	-43.97
5729.4	-	-	-	-77.74	7.61	36.87	-58.39	-13.00	-45.39
7639.2	-	-	-	-78.64	11.56	39.92	-55.33	-13.00	-42.33
9549.0	-	-	-	-79.75	14.75	42.00	-53.26	-13.00	-40.26

Table 7-49. Radiated Spurious Data (GPRS PCS – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	-	-	-	-78.36	4.52	33.16	-62.09	-13.00	-49.09
5557.2	-	-	-	-78.63	7.90	36.27	-58.99	-13.00	-45.99
7409.6	-	-	-	-79.51	10.69	38.18	-57.08	-13.00	-44.08

Table 7-50. Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	-	-	-	-78.57	4.87	33.30	-61.96	-13.00	-48.96
5640.0	-	-	-	-79.22	8.64	36.42	-58.84	-13.00	-45.84
7520.0	-	-	-	-79.20	11.07	38.87	-56.39	-13.00	-43.39

Table 7-51. Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	-	-	-	-78.90	5.18	33.28	-61.98	-13.00	-48.98
5722.8	-	-	-	-78.32	7.81	36.49	-58.77	-13.00	-45.77
7630.4	-	-	-	-80.04	11.52	38.48	-56.78	-13.00	-43.78

Table 7-52. Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: BCGA2301	 <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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7.7.4 Antenna 2b – Radiated Spurious Emission Measurement

LTE Band 25/2

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	H	-	-	-78.75	7.61	35.86	-59.40	-13.00	-46.40
5580.0	V	321	48	-77.38	10.67	40.29	-54.97	-13.00	-41.97
7440.0	V	-	-	-80.10	14.77	41.67	-53.59	-13.00	-40.59
9300.0	V	-	-	-81.46	17.06	42.60	-52.65	-13.00	-39.65
11160.0	V	-	-	-82.28	19.81	44.53	-50.72	-13.00	-37.72

Table 7-53. Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	293	45	-69.28	7.30	45.02	-50.24	-13.00	-37.24
5647.5	V	285	42	-69.35	10.37	48.02	-47.24	-13.00	-34.24
7530.0	V	-	-	-79.85	15.03	42.18	-53.08	-13.00	-40.08
9412.5	V	-	-	-80.10	18.09	44.99	-50.27	-13.00	-37.27
11295.0	V	-	-	-81.15	20.04	45.89	-49.37	-13.00	-36.37

Table 7-54. Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1905.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	370	87	-77.71	6.98	36.27	-58.99	-13.00	-45.99
5715.00	V	261	27	-72.41	9.97	44.56	-50.69	-13.00	-37.69
7620.00	V	-	-	-80.50	14.80	41.30	-53.95	-13.00	-40.95
9525.00	V	-	-	-80.08	18.29	45.21	-50.05	-13.00	-37.05
11430.00	V	-	-	-81.79	20.10	45.31	-49.95	-13.00	-36.95

Table 7-55. Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: BCGA2301	 PCTEST <small>Proud to be part of element</small>	PART 24 MEASUREMENT REPORT	Approved by: Quality Manager
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GSM/GPRS PCS

Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3700.4	V	399	162	-68.83	4.52	42.69	-52.57	-13.00	-39.57
5550.6	V	273	251	-73.18	7.67	41.49	-53.76	-13.00	-40.76
7400.8	-	-	-	-78.39	10.60	39.21	-56.04	-13.00	-43.04
9251.0	-	-	-	-79.55	14.05	41.50	-53.76	-13.00	-40.76

Table 7-56. Radiated Spurious Data (GPRS PCS – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	-	-	-	-77.02	4.87	34.85	-60.41	-13.00	-47.41
5640.0	-	-	-	-77.81	8.64	37.83	-57.43	-13.00	-44.43
7520.0	-	-	-	-77.92	11.07	40.15	-55.11	-13.00	-42.11

Table 7-57. Radiated Spurious Data (GPRS PCS – Mid Channel)

Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.6	-	-	-	-77.51	5.25	34.74	-60.52	-13.00	-47.52
5729.4	-	-	-	-77.75	7.61	36.86	-58.40	-13.00	-45.40
7639.2	-	-	-	-78.62	11.56	39.94	-55.31	-13.00	-42.31

Table 7-58. Radiated Spurious Data (GPRS PCS – High Channel)

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WCDMA PCS

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	-	-	-	-79.83	4.52	31.69	-63.56	-13.00	-50.56
5557.2	-	-	-	-78.34	7.90	36.56	-58.70	-13.00	-45.70
7409.6	-	-	-	-80.02	10.69	37.67	-57.59	-13.00	-44.59

Table 7-59. Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	-	-	-	-79.56	4.87	32.31	-62.95	-13.00	-49.95
5640.0	-	-	-	-80.56	8.64	35.08	-60.18	-13.00	-47.18
7520.0	-	-	-	-79.08	11.07	38.99	-56.27	-13.00	-43.27

Table 7-60. Radiated Spurious Data (WCDMA PCS – Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	-	-	-	-78.04	5.18	34.14	-61.12	-13.00	-48.12
5722.8	-	-	-	-77.90	7.81	36.91	-58.35	-13.00	-45.35
7630.4	-	-	-	-78.11	11.52	40.41	-54.85	-13.00	-41.85

Table 7-61. Radiated Spurious Data (WCDMA PCS – High Channel)

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7.8 Frequency Stability / Temperature Variation §2.1055, §24.235

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26 2015

TIA-603-E-2016

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

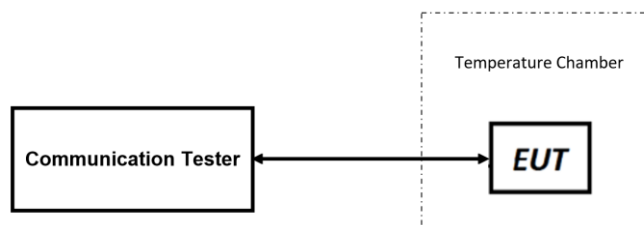



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

- All port were tested and only the worst case data were reported.
- NR bands with wider bandwidths compared to respective LTE bands have been investigated and worst case was reported. NR Bands with equal or lower bandwidths to respective LTE bands are covered by their respective LTE Bands.


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Frequency Stability / Temperature Variation

LTE Band 25/2 and NR Band n25/2							
			Low Channel Frequency (Hz):		1,852,400,000		
			High Channel Frequency (Hz):		1,907,600,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,852,399,994	1,907,599,992	-1.87	-4.20	-0.0000002
		- 20	1,852,399,994	1,907,599,994	-2.37	-2.65	-0.0000001
		- 10	1,852,399,994	1,907,599,994	-2.46	-2.07	-0.0000001
		0	1,852,399,992	1,907,599,993	-4.30	-2.73	-0.0000002
		+ 10	1,852,399,993	1,907,599,994	-3.65	-2.03	-0.0000002
		+ 20 (Ref)	1,852,399,996	1,907,599,996	0.00	0.00	0.0000000
		+ 30	1,852,399,994	1,907,599,994	-1.77	-2.34	-0.0000001
		+ 40	1,852,399,994	1,907,599,991	-2.29	-4.92	-0.0000003
		+ 50	1,852,399,992	1,907,599,992	-4.22	-3.98	-0.0000002
Battery Endpoint	3.23	+ 20	1,852,399,994	1,907,599,992	-2.28	-4.08	-0.0000002

Table 7-62. LTE Band 25/2 and NR Band n25/n2 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested.


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Frequency Stability / Temperature Variation

GSM/GPRS PCS							
			Low Channel Frequency (Hz):		1,850,000,000		
			High Channel Frequency (Hz):		1,909,800,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,849,999,989	1,909,799,996	-5.74	-1.28	-0.0000003
		- 20	1,849,999,994	1,909,799,995	-1.24	-2.37	-0.0000001
		- 10	1,849,999,990	1,909,799,994	-4.91	-3.21	-0.0000003
		0	1,849,999,991	1,909,799,993	-3.67	-3.81	-0.0000002
		+ 10	1,849,999,994	1,909,799,996	-1.58	-1.01	-0.0000001
		+ 20 (Ref)	1,849,999,995	1,909,799,997	0.00	0.00	0.0000000
		+ 30	1,849,999,991	1,909,799,993	-4.50	-3.54	-0.0000002
		+ 40	1,849,999,990	1,909,799,994	-4.90	-3.06	-0.0000003
		+ 50	1,849,999,991	1,909,799,994	-3.70	-2.85	-0.0000002
Battery Endpoint	3.23	+ 20	1,849,999,992	1,909,799,991	-2.64	-5.90	-0.0000003

Table 7-63. GSM/GPRS PCS Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested.


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Frequency Stability / Temperature Variation

WCDMA PCS							
			Low Channel Frequency (Hz):		1,852,400,000		
			High Channel Frequency (Hz):		1,907,600,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,852,399,993	1,907,599,991	-1.43	-5.26	-0.0000003
		- 20	1,852,399,990	1,907,599,991	-4.40	-5.37	-0.0000003
		- 10	1,852,399,990	1,907,599,992	-4.54	-4.45	-0.0000002
		0	1,852,399,989	1,907,599,995	-4.76	-1.26	-0.0000002
		+ 10	1,852,399,991	1,907,599,993	-3.11	-3.57	-0.0000002
		+ 20 (Ref)	1,852,399,994	1,907,599,997	0.00	0.00	0.0000000
		+ 30	1,852,399,990	1,907,599,993	-4.55	-4.07	-0.0000002
		+ 40	1,852,399,991	1,907,599,994	-3.10	-3.14	-0.0000002
		+ 50	1,852,399,992	1,907,599,991	-1.95	-5.58	-0.0000003
Battery Endpoint	3.23	+ 20	1,852,399,990	1,907,599,994	-3.87	-2.27	-0.0000002


Table 7-64. WCDMA PCS Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested.

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2301** complies with all the requirements of Part 24 of the FCC rules.

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