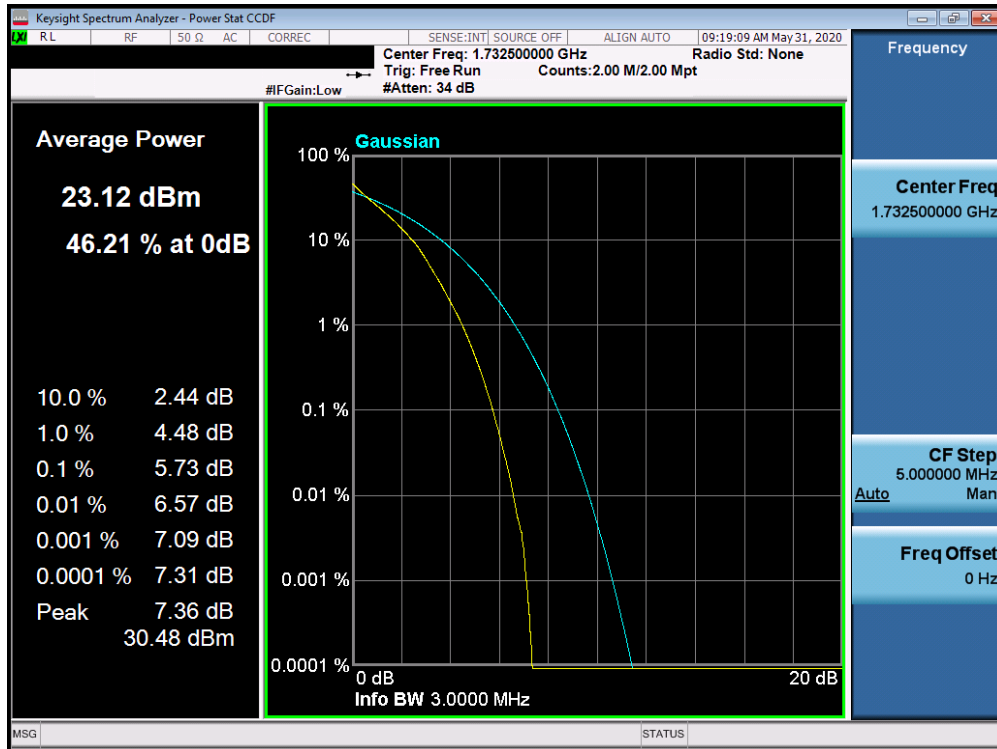
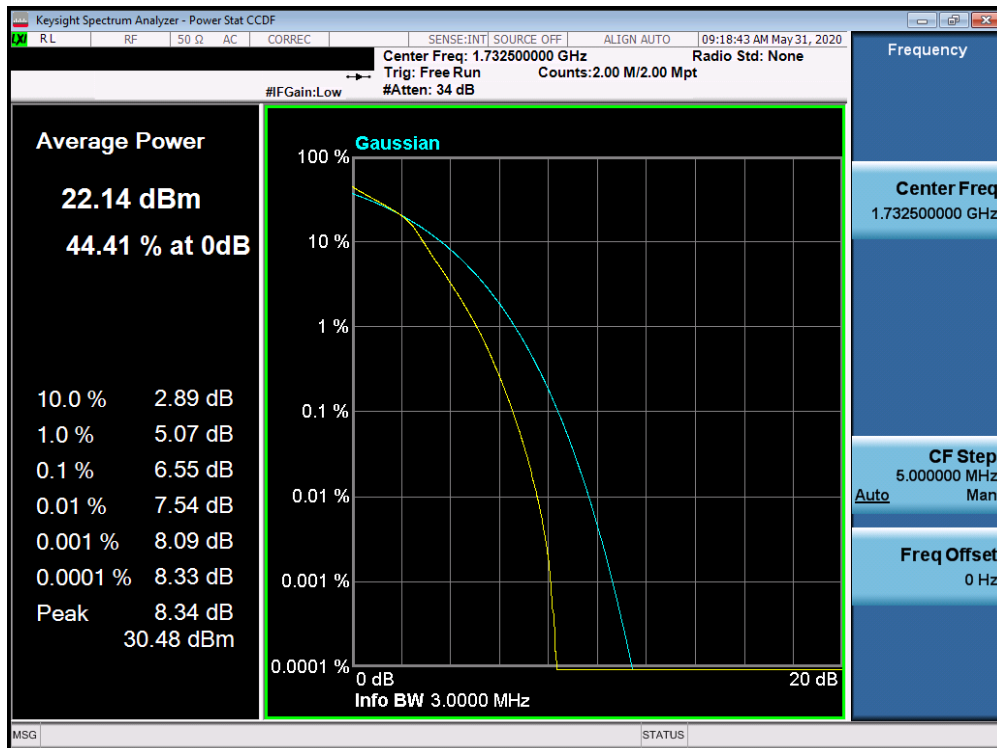


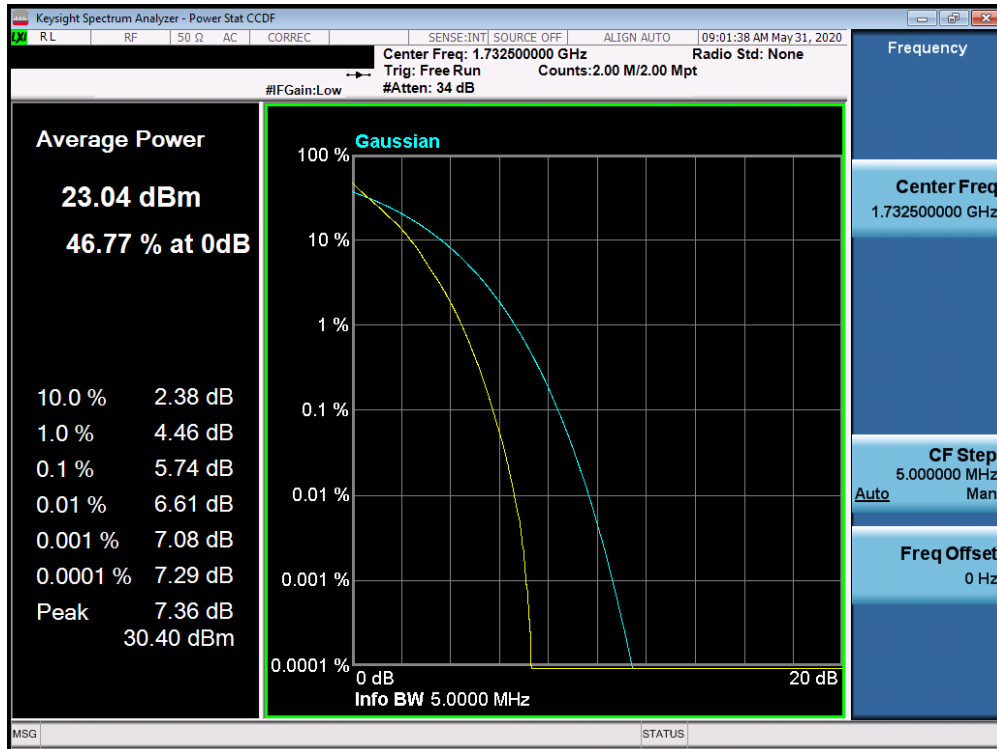


Plot 7-216. PAR Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

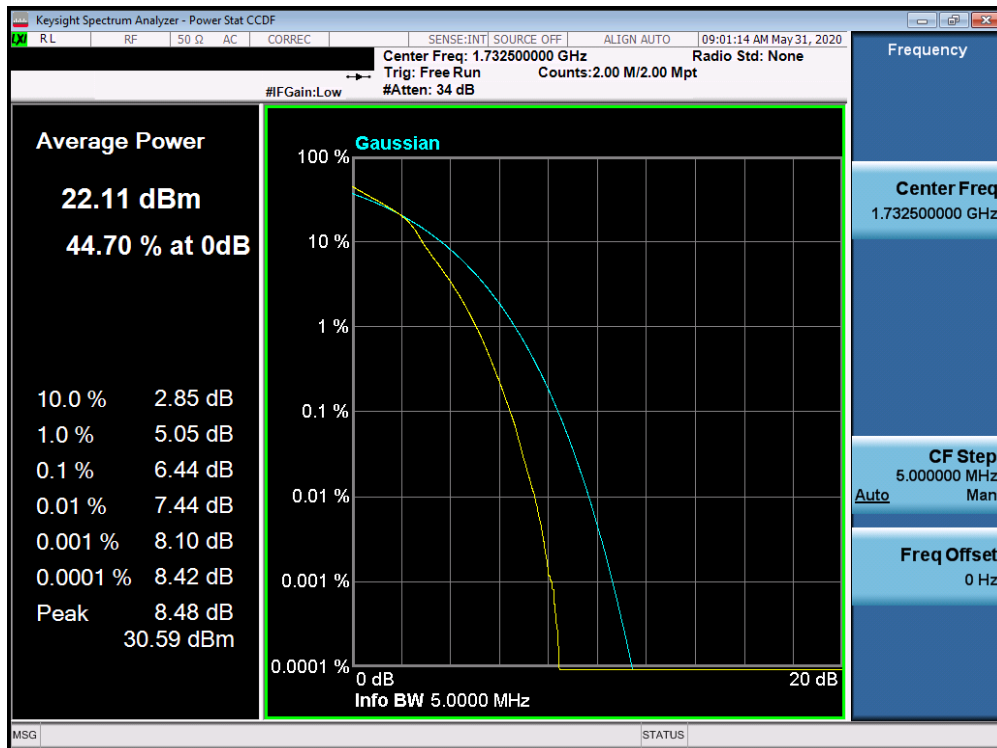


Plot 7-217. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 139 of 201

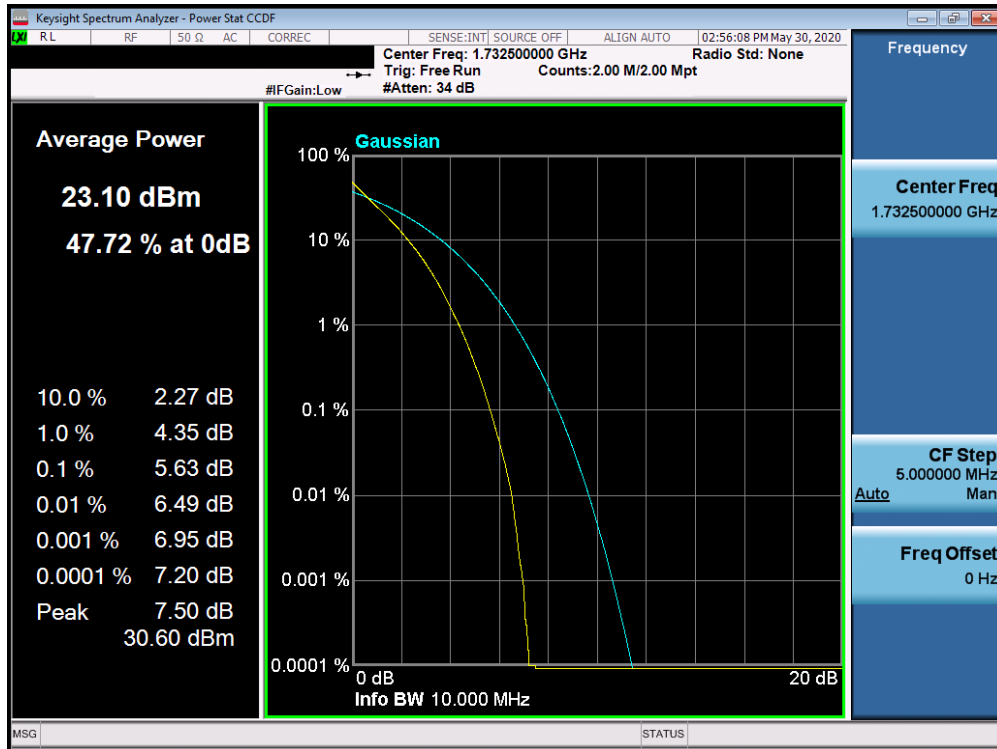


Plot 7-218. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

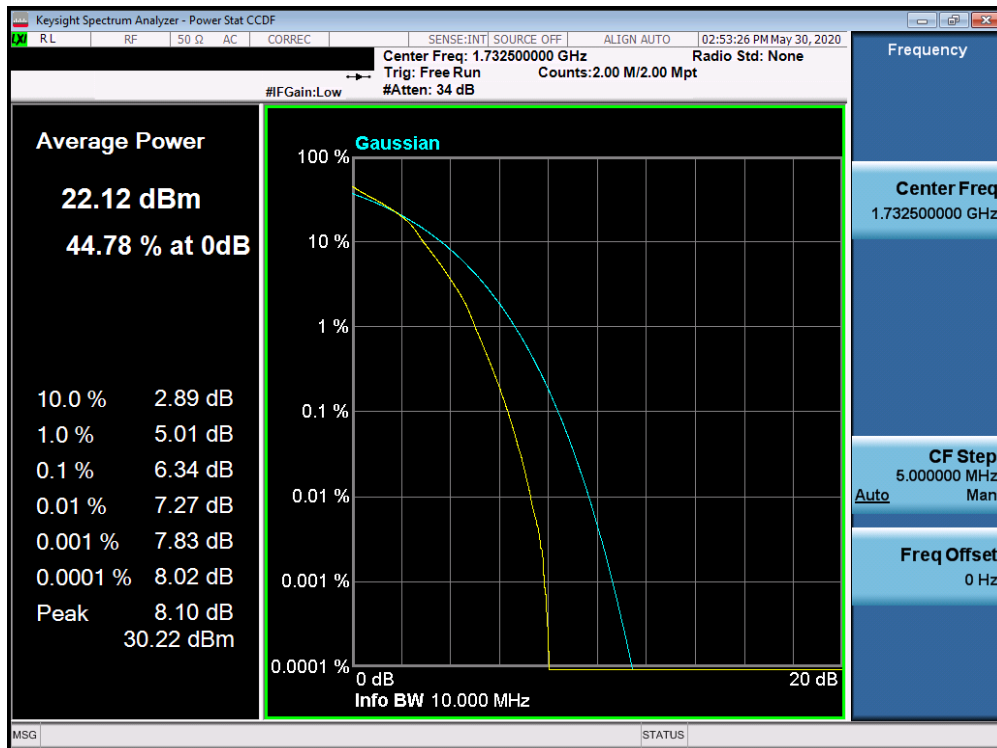


Plot 7-219. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 140 of 201

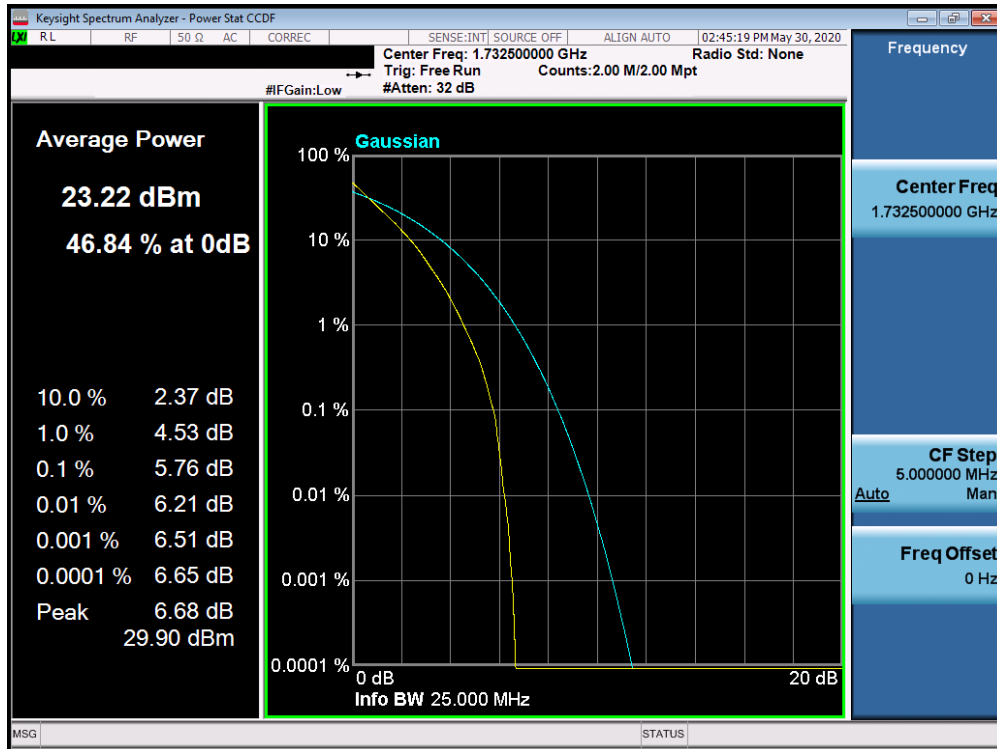


Plot 7-220. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

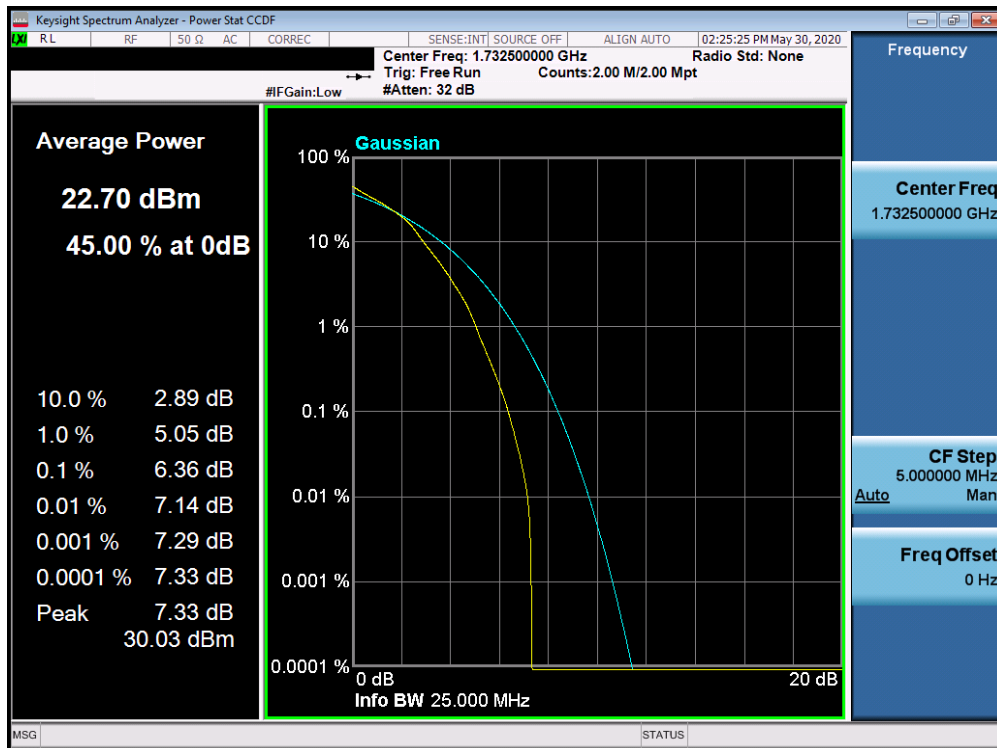


Plot 7-221. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 141 of 201

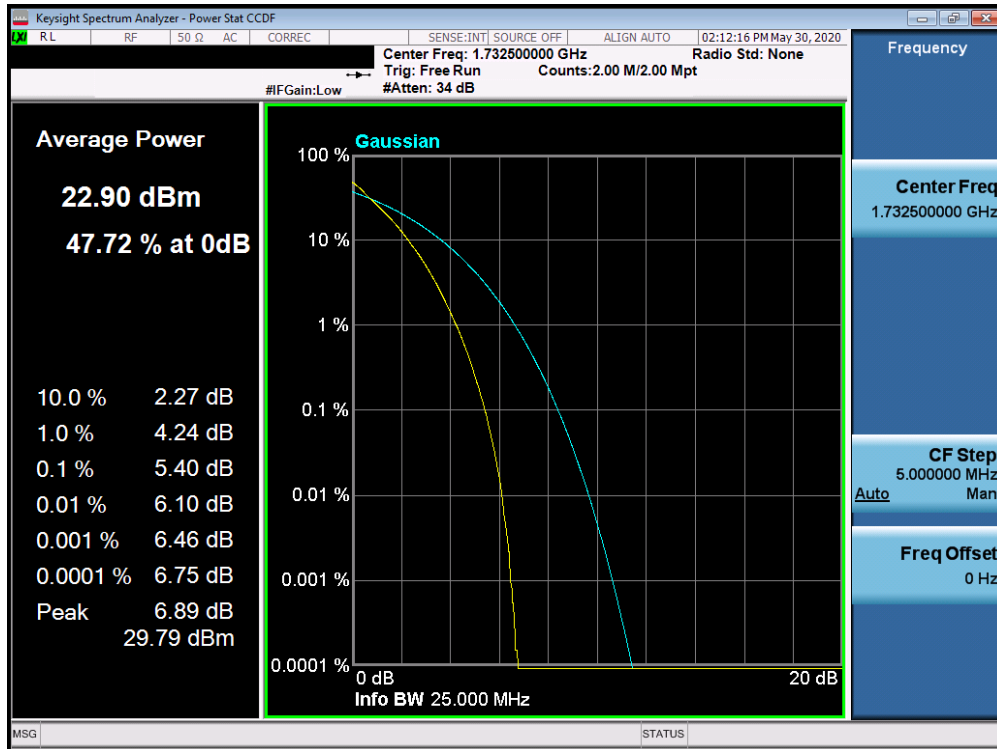


Plot 7-222. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

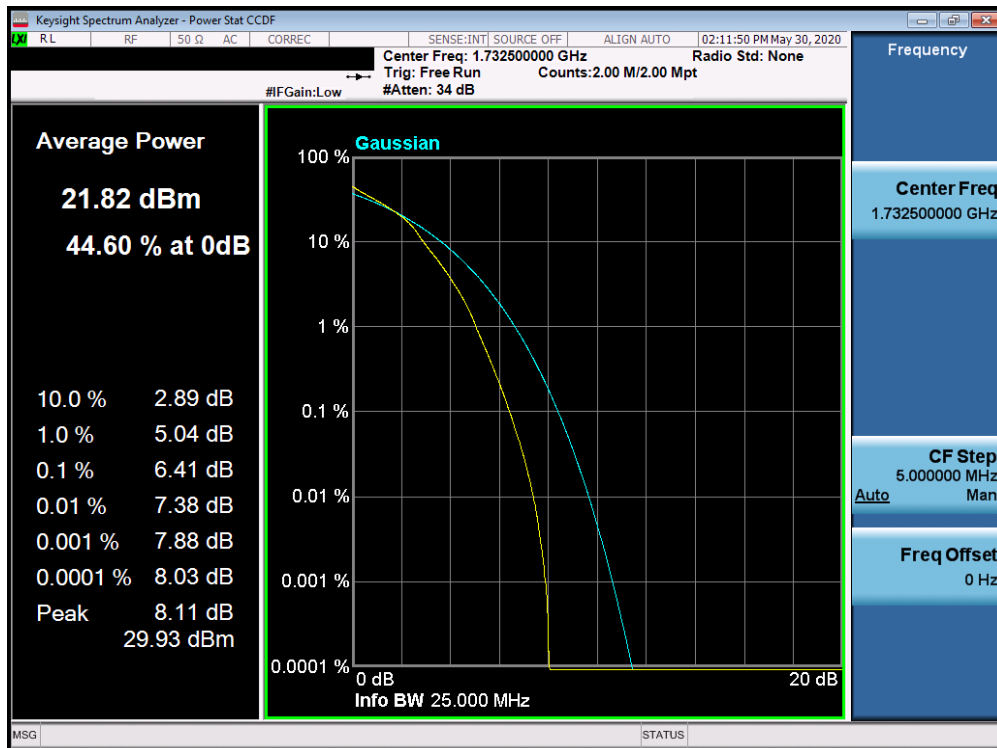


Plot 7-223. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 142 of 201



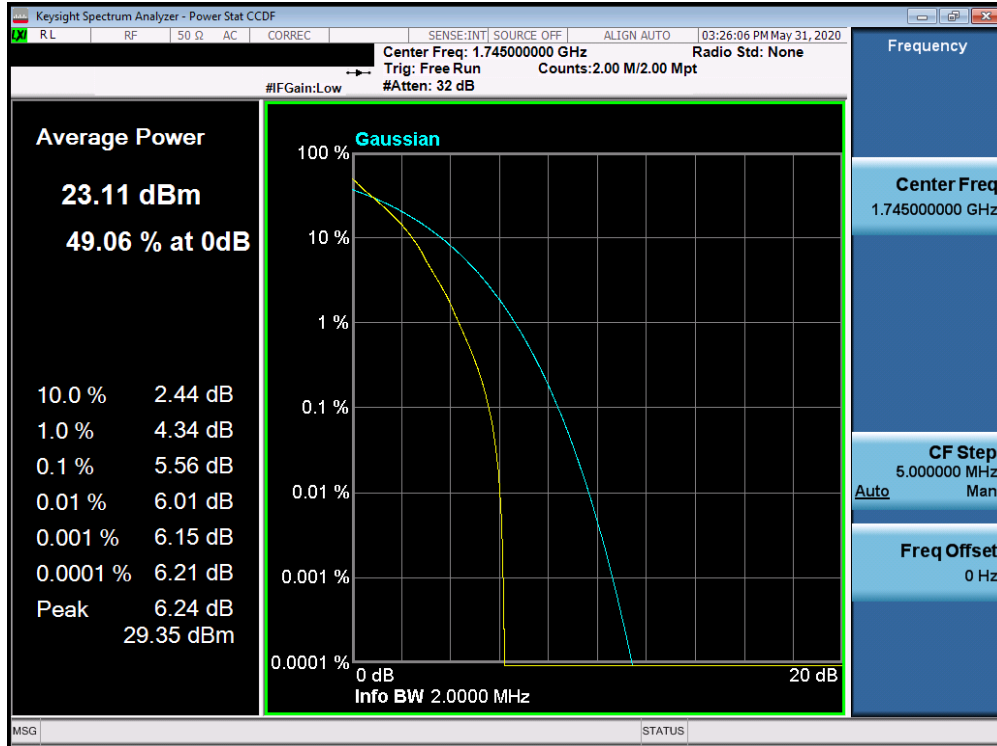
Plot 7-224. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



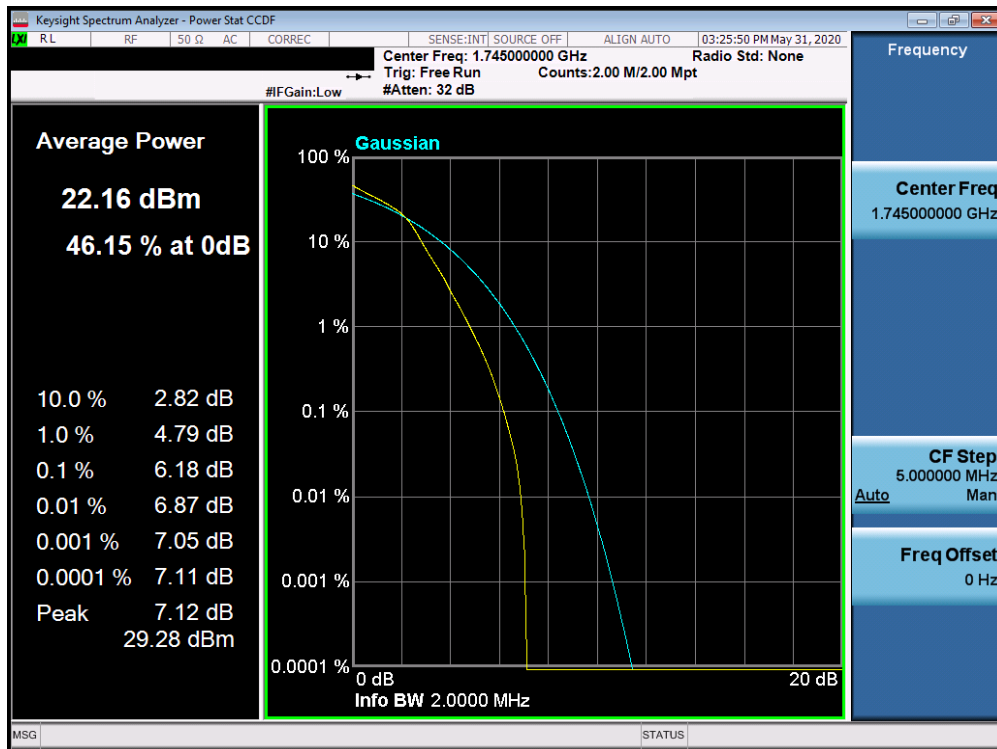
Plot 7-225. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 143 of 201

Band 66

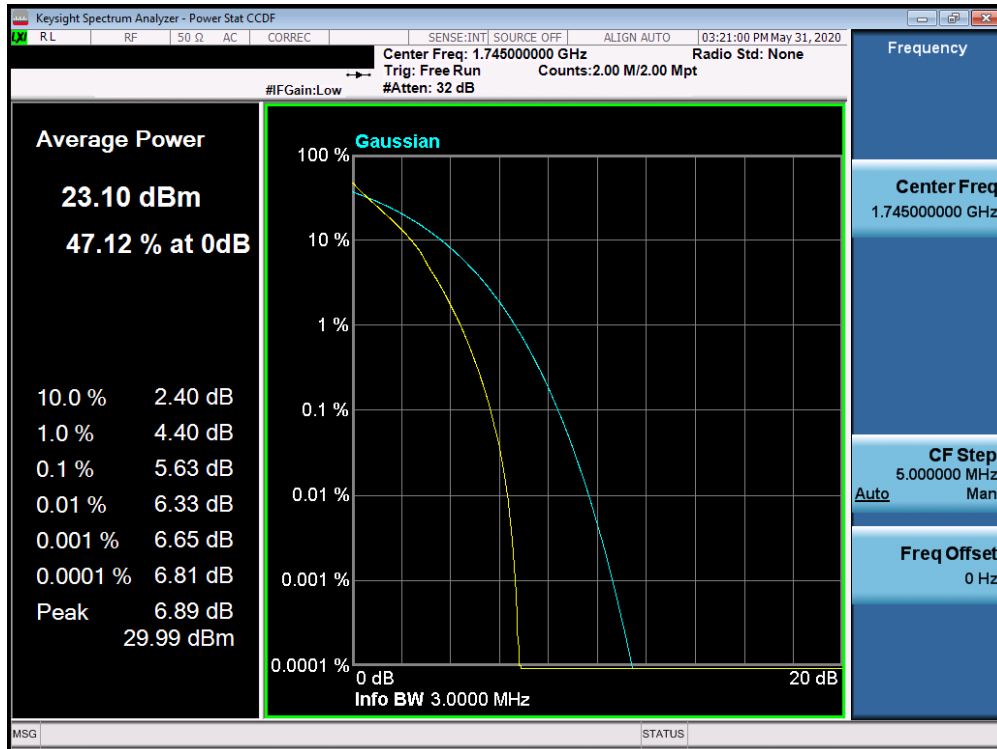


Plot 7-226. PAR Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

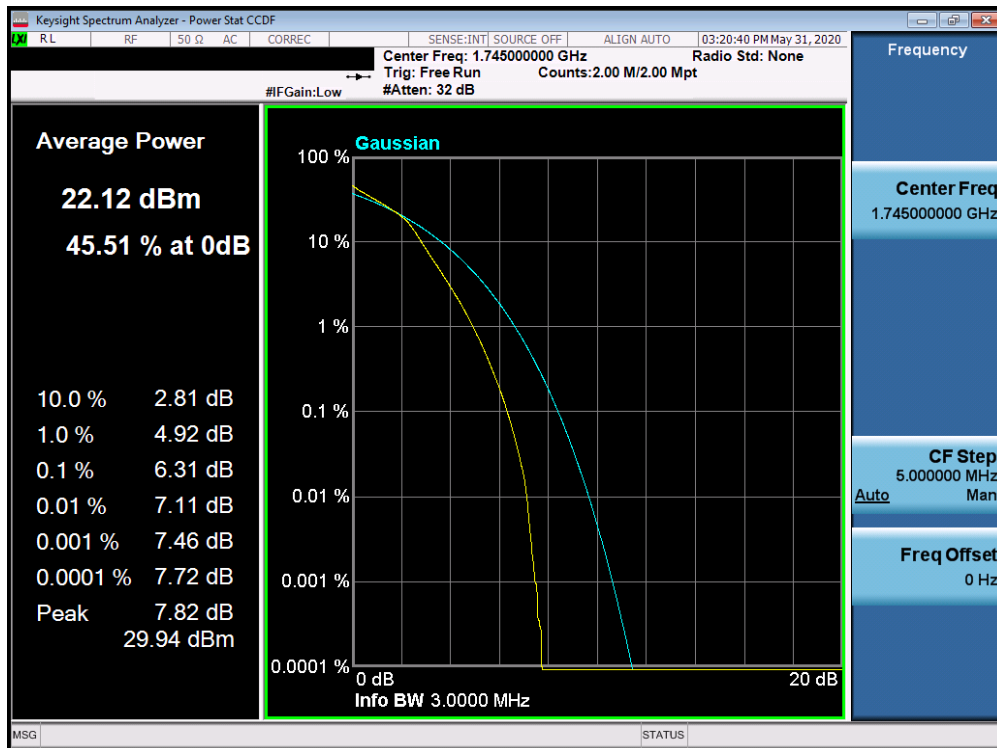


Plot 7-227. PAR Plot (Band 66 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 144 of 201

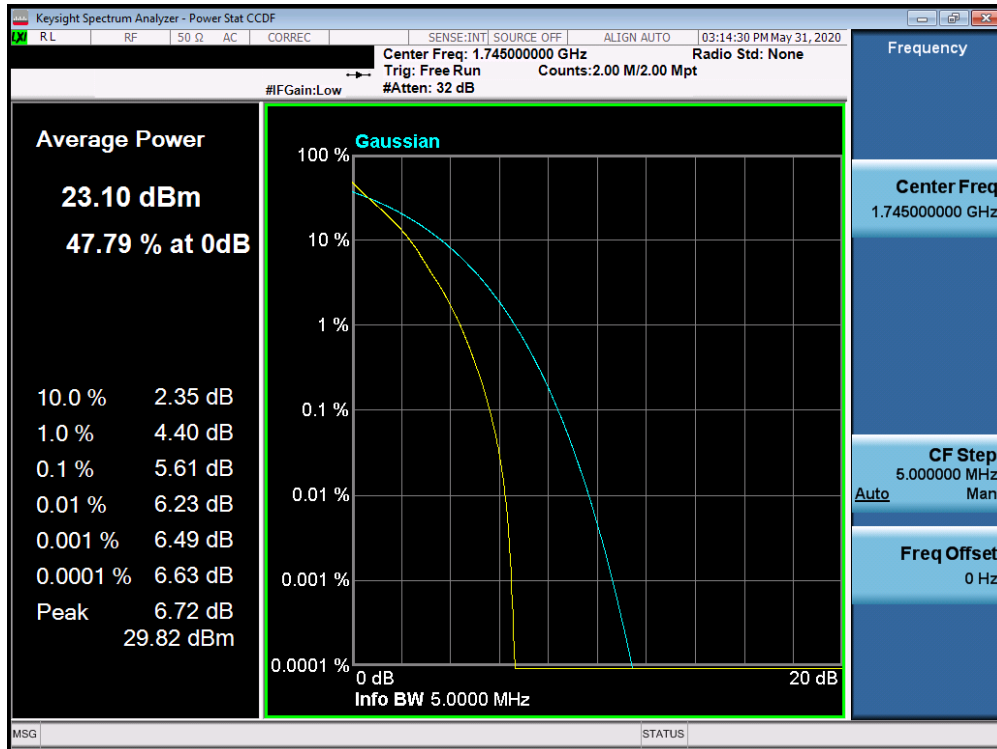


Plot 7-228. PAR Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

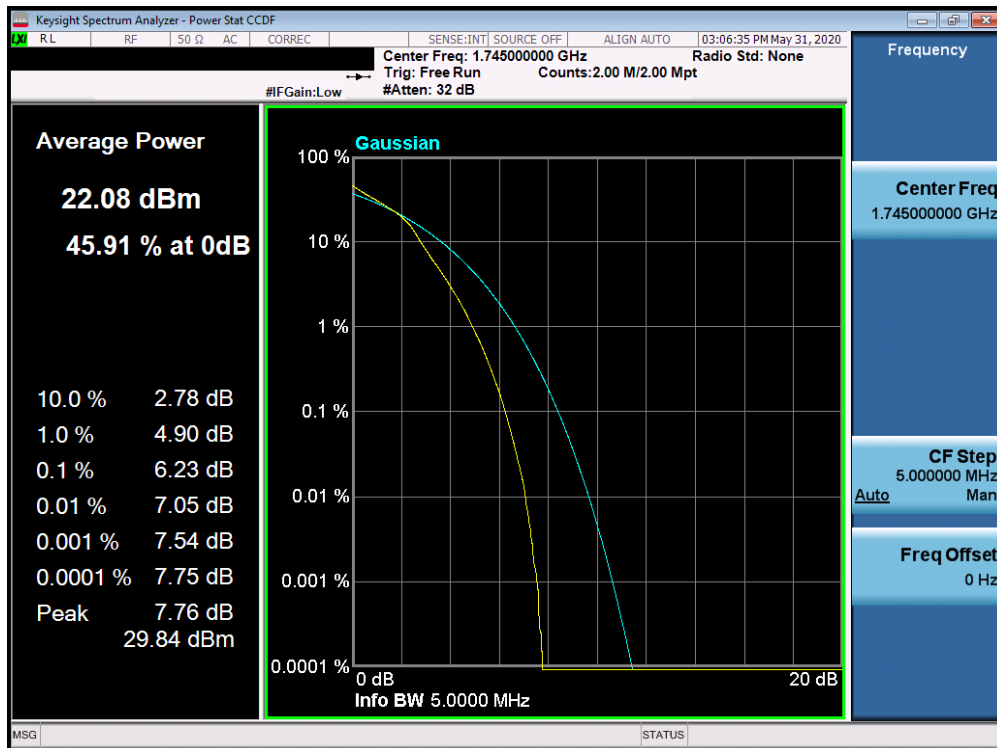


Plot 7-229. PAR Plot (Band 66 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 145 of 201

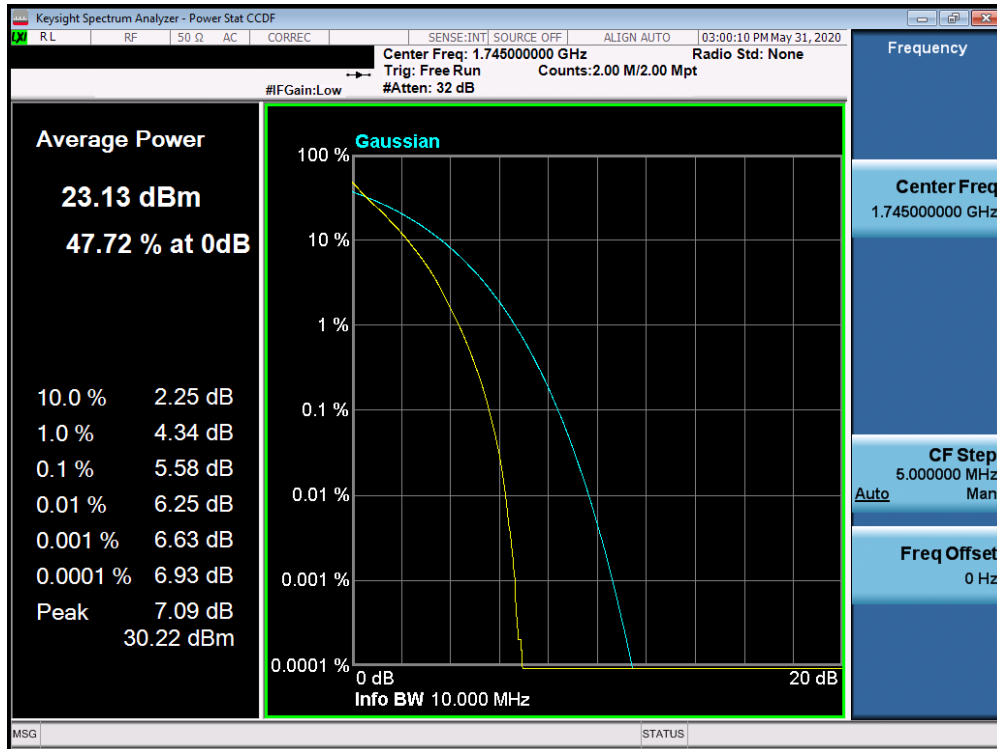


Plot 7-230. PAR Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

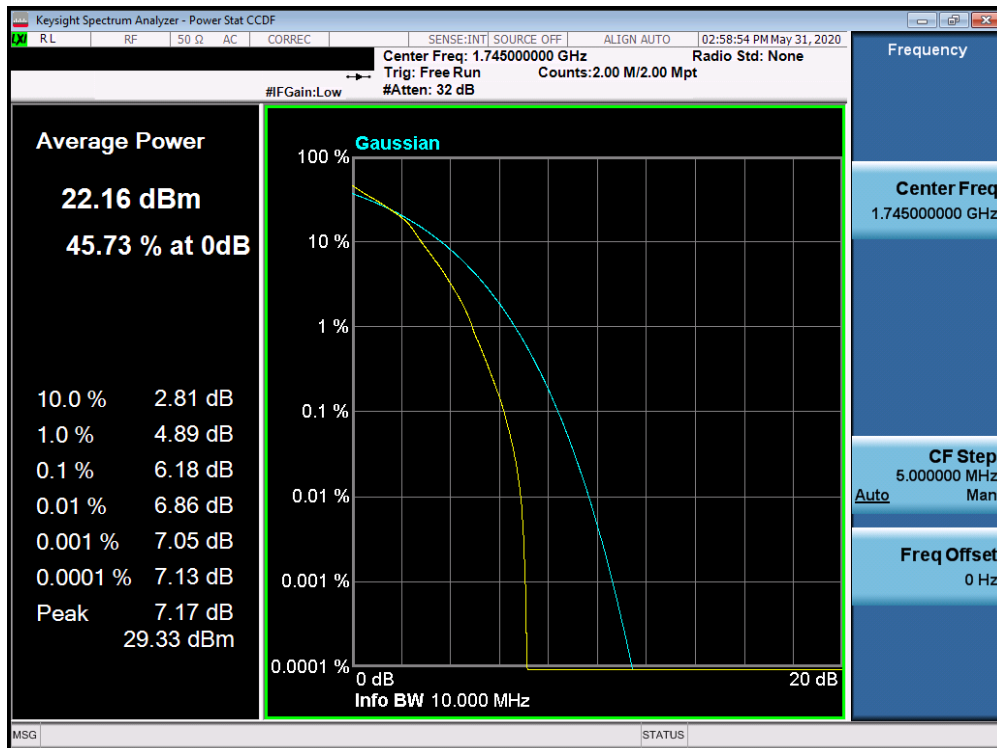


Plot 7-231. PAR Plot (Band 66 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 146 of 201

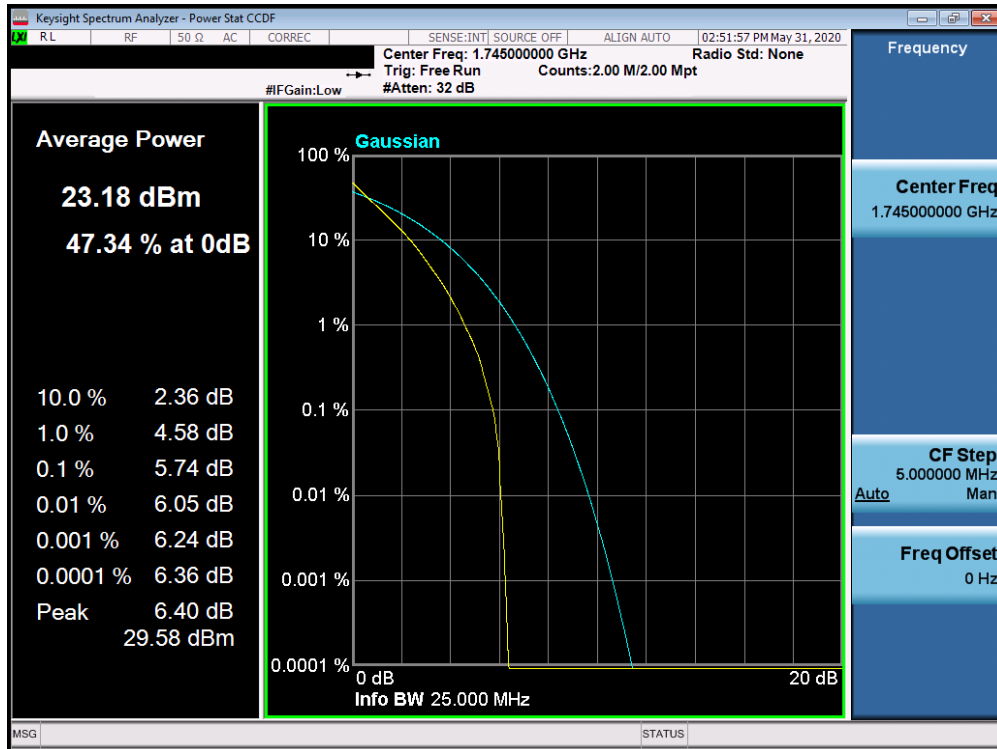


Plot 7-232. PAR Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

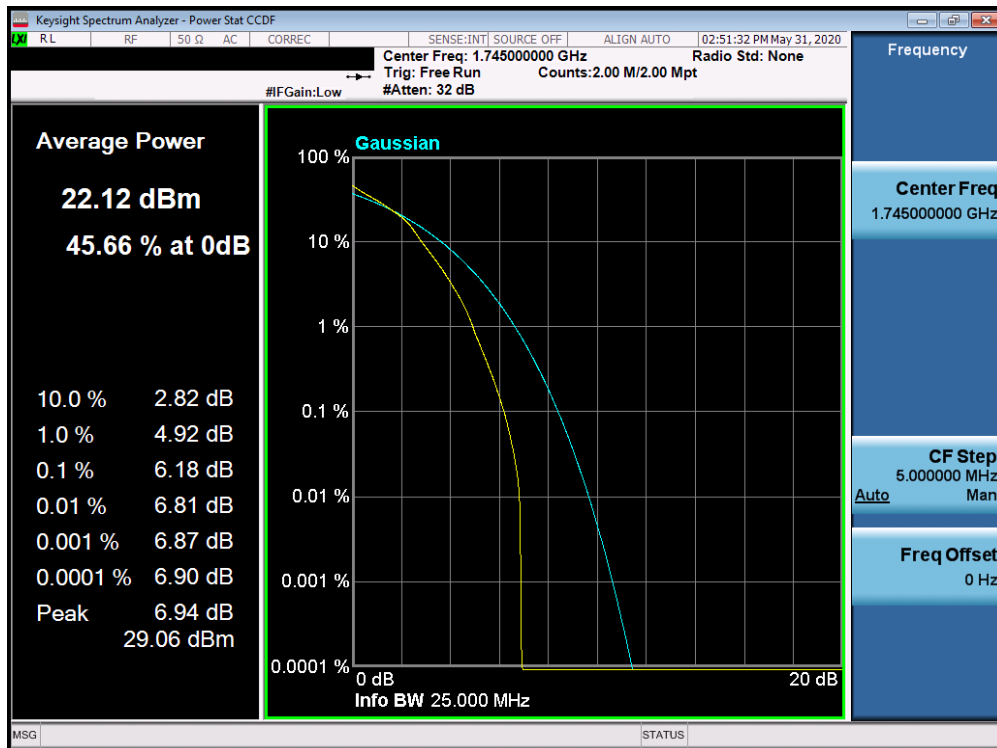


Plot 7-233. PAR Plot (Band 66 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 147 of 201

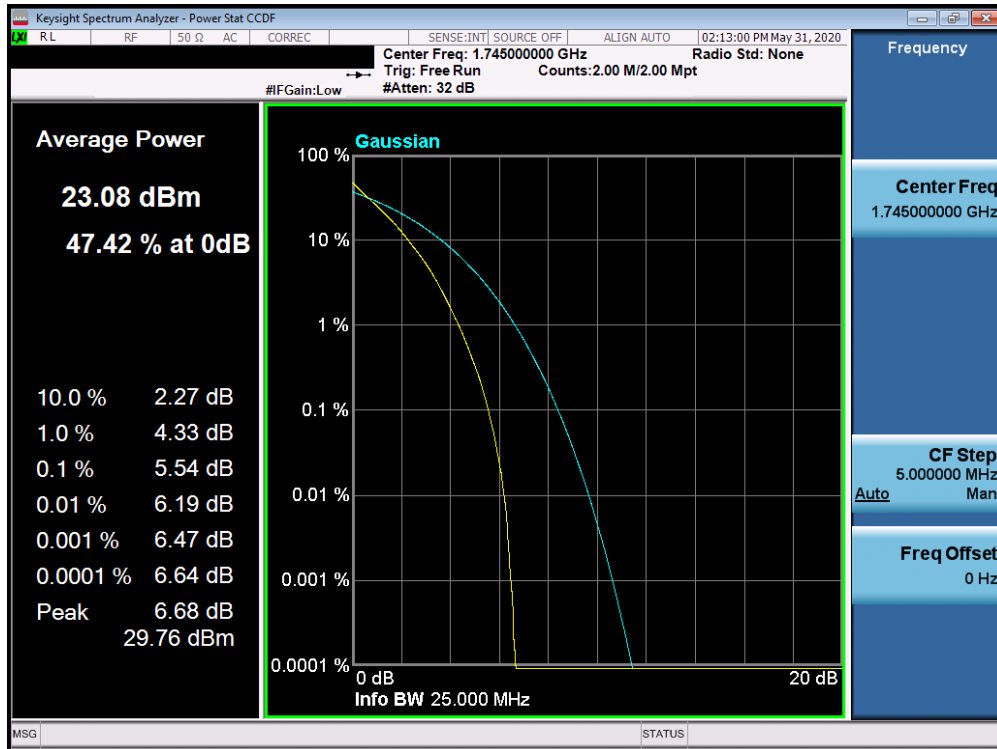


Plot 7-234. PAR Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

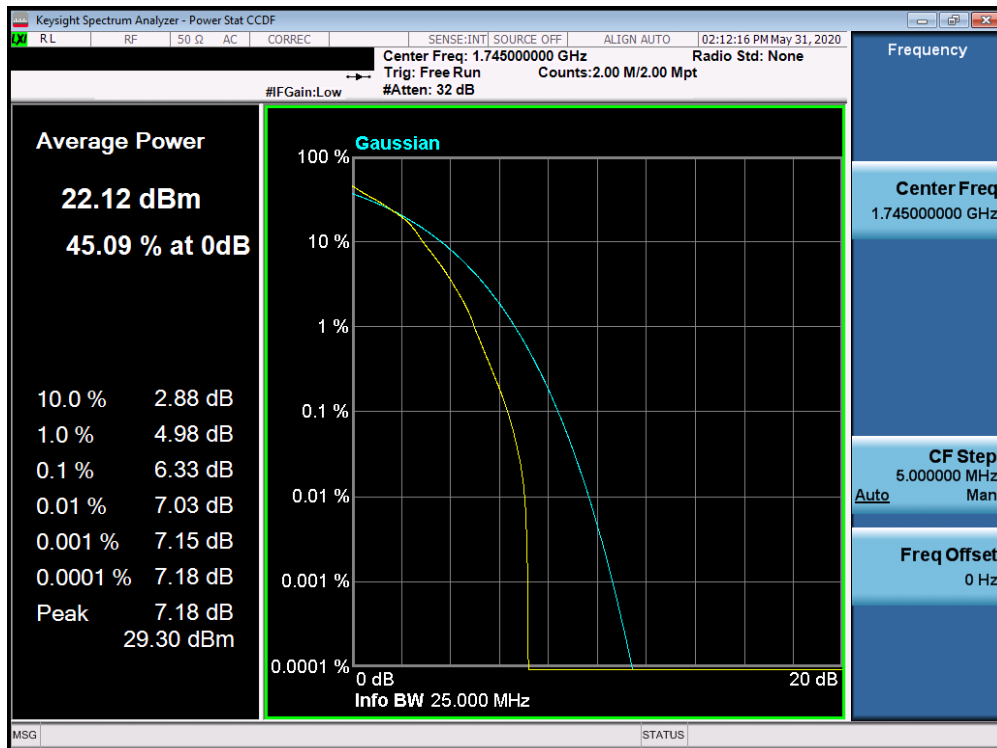


Plot 7-235. PAR Plot (Band 66 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 148 of 201



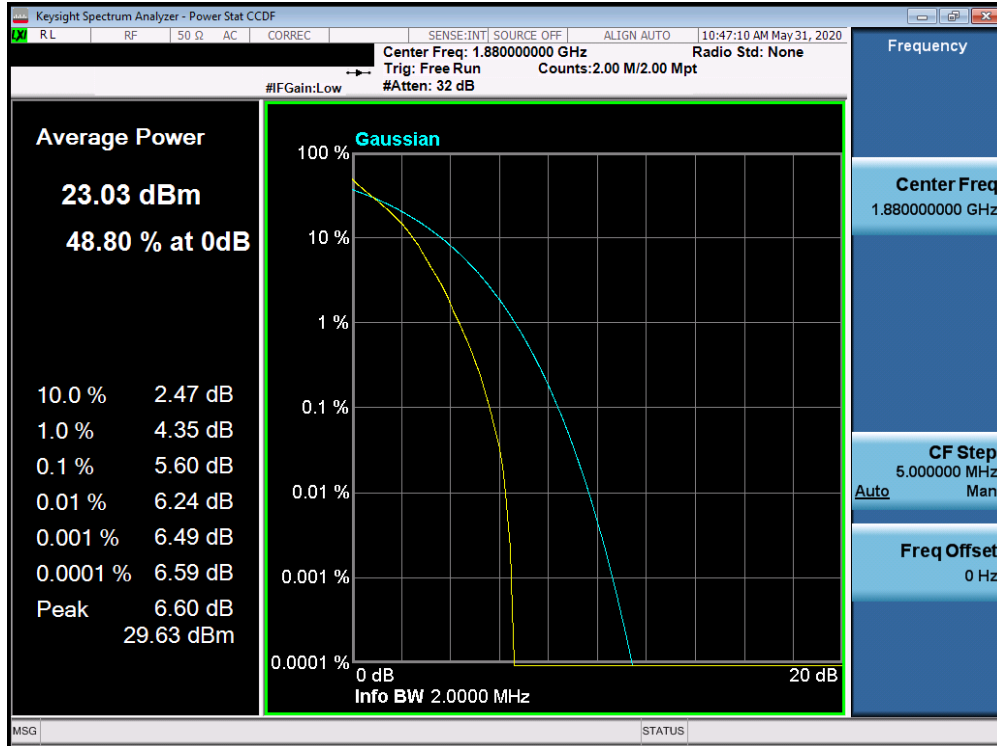
Plot 7-236. PAR Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



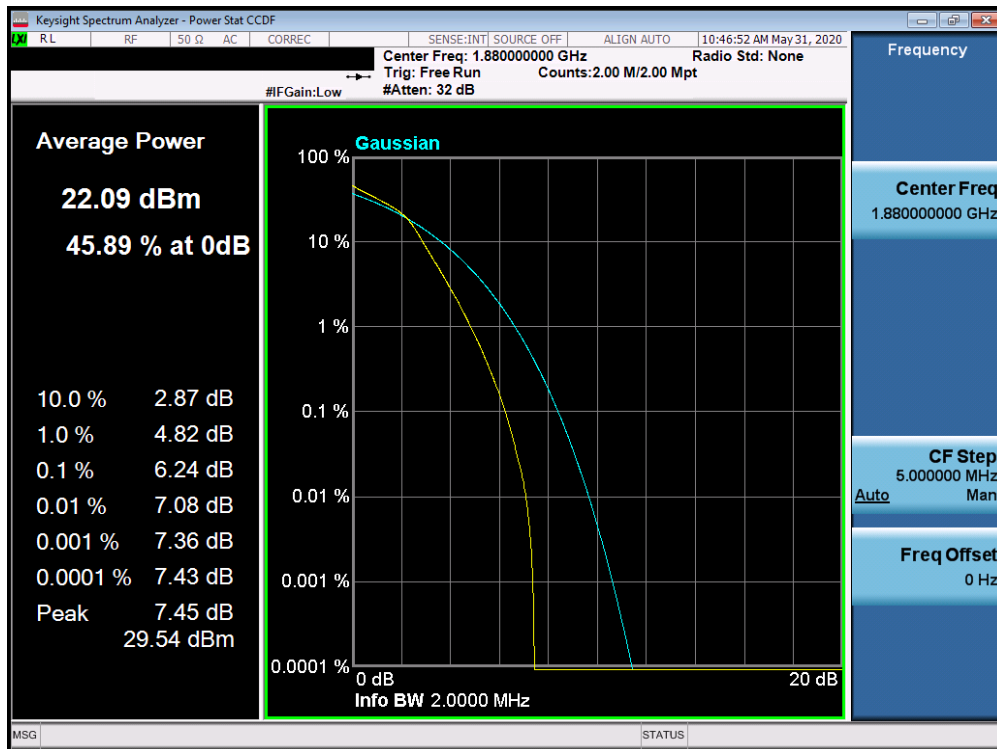
Plot 7-237. PAR Plot (Band 66 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 149 of 201

Band 2

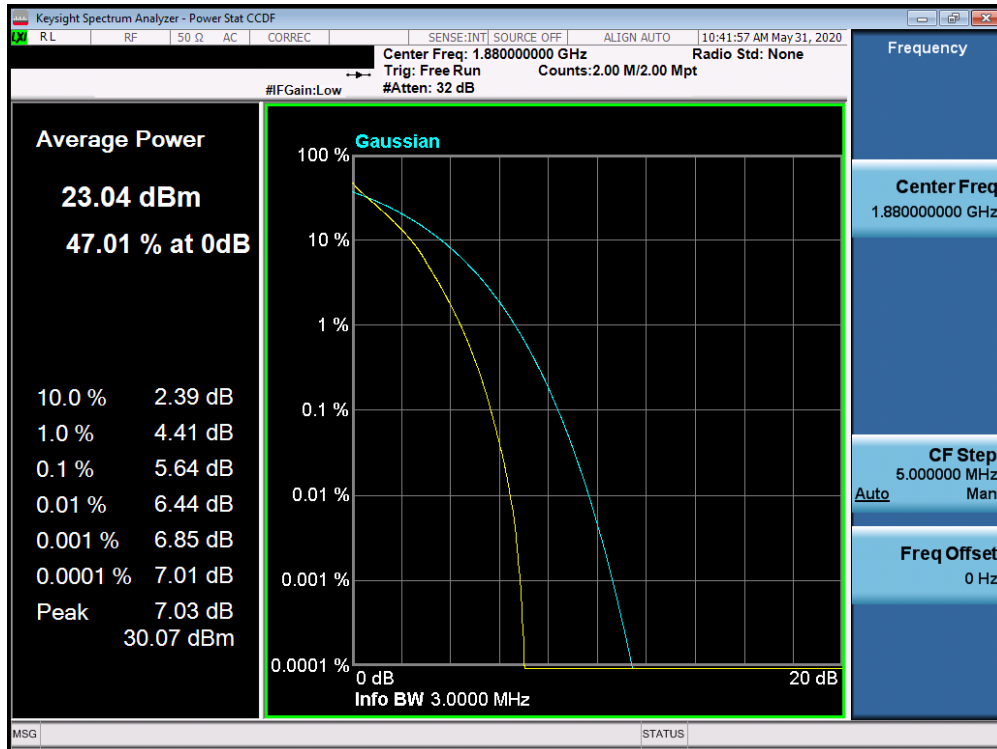


Plot 7-238. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

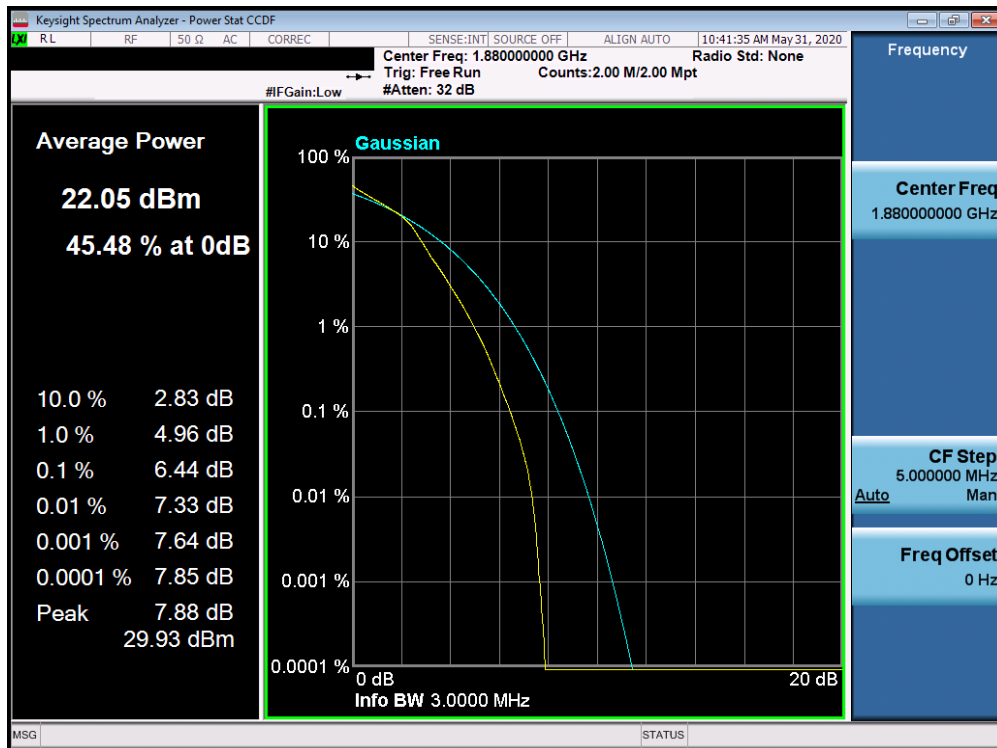


Plot 7-239. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 150 of 201

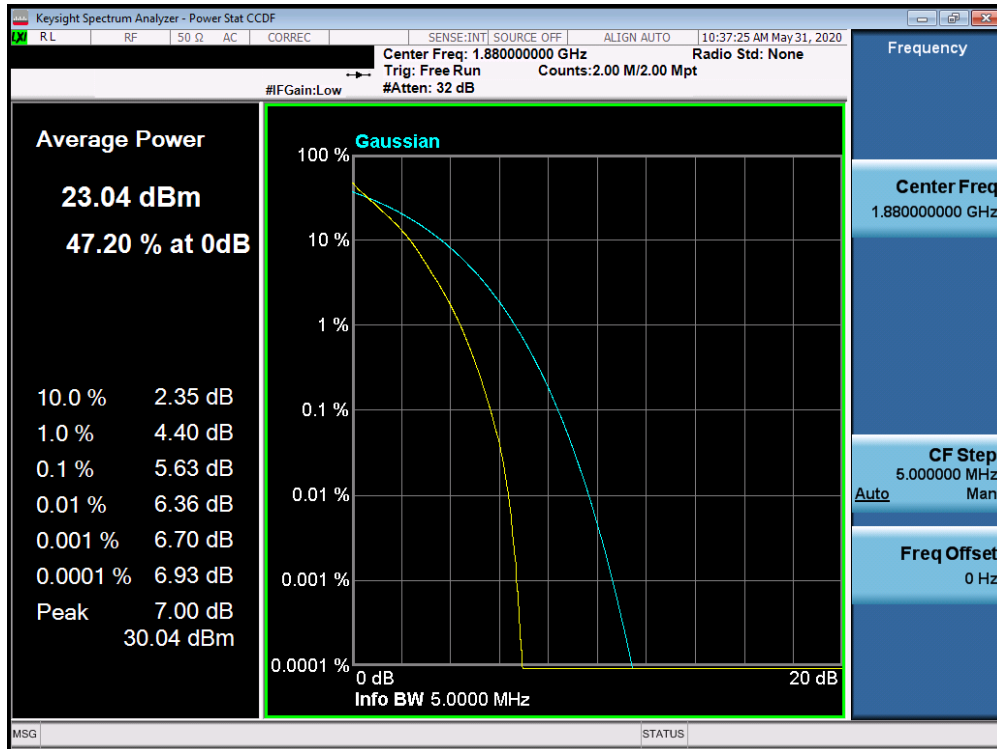


Plot 7-240. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

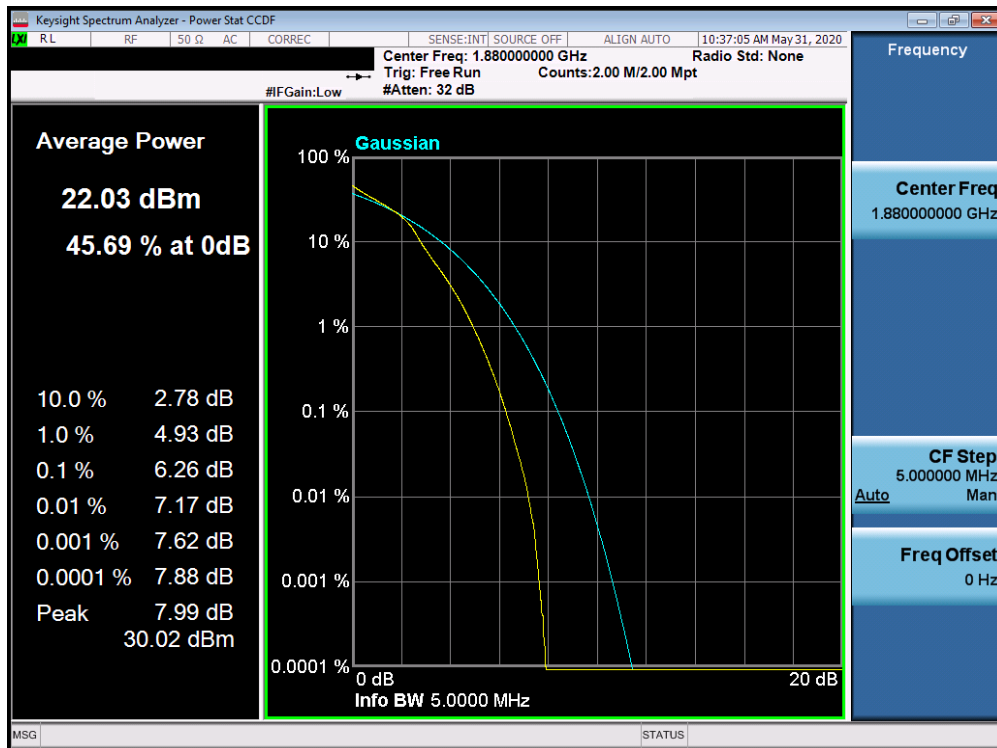


Plot 7-241. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 151 of 201

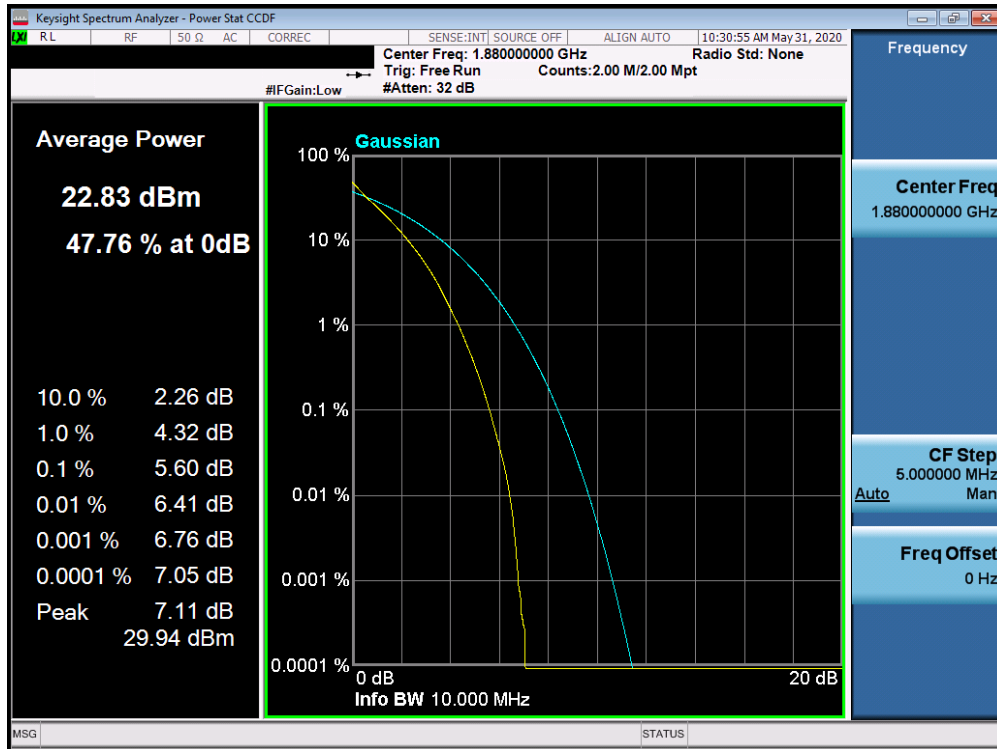


Plot 7-242. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

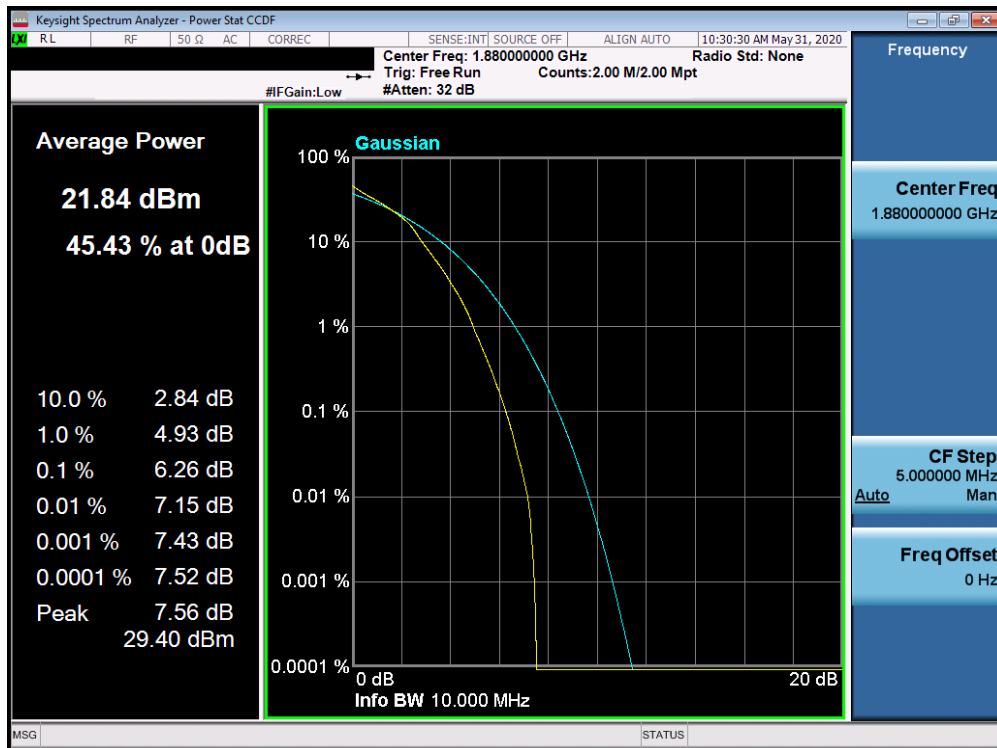


Plot 7-243. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 152 of 201

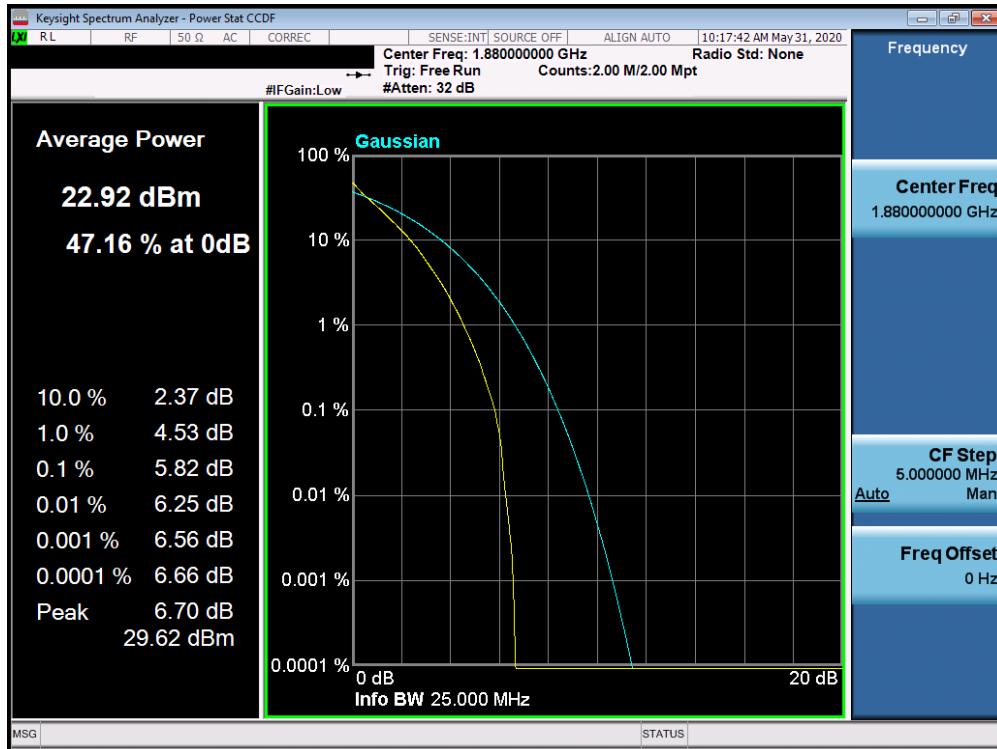


Plot 7-244. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

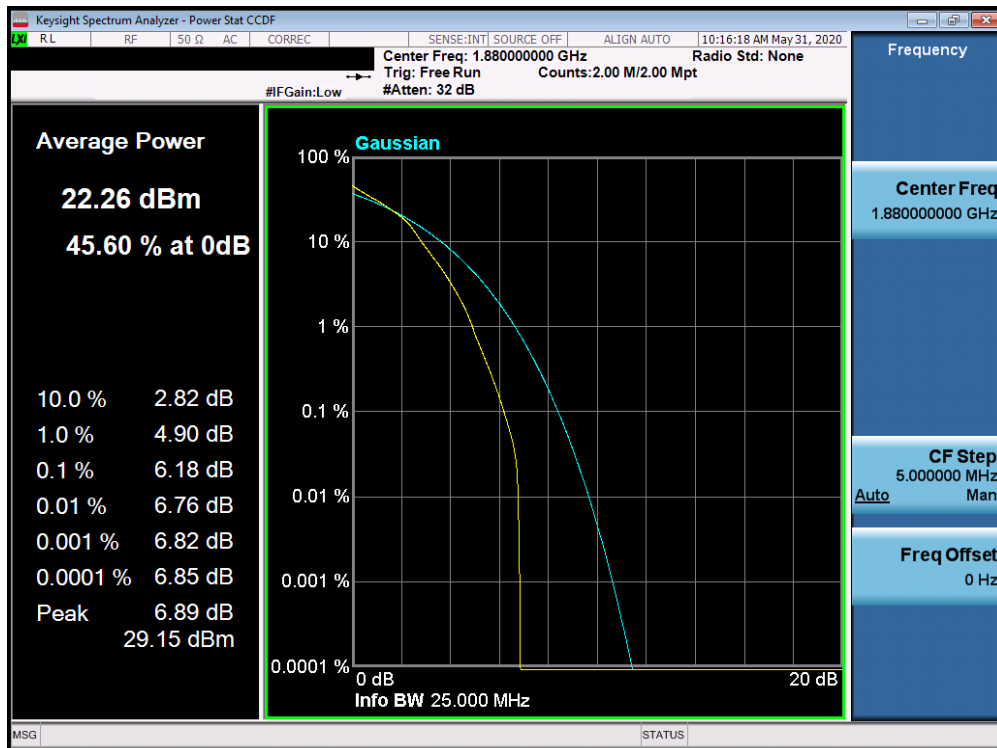


Plot 7-245. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 153 of 201

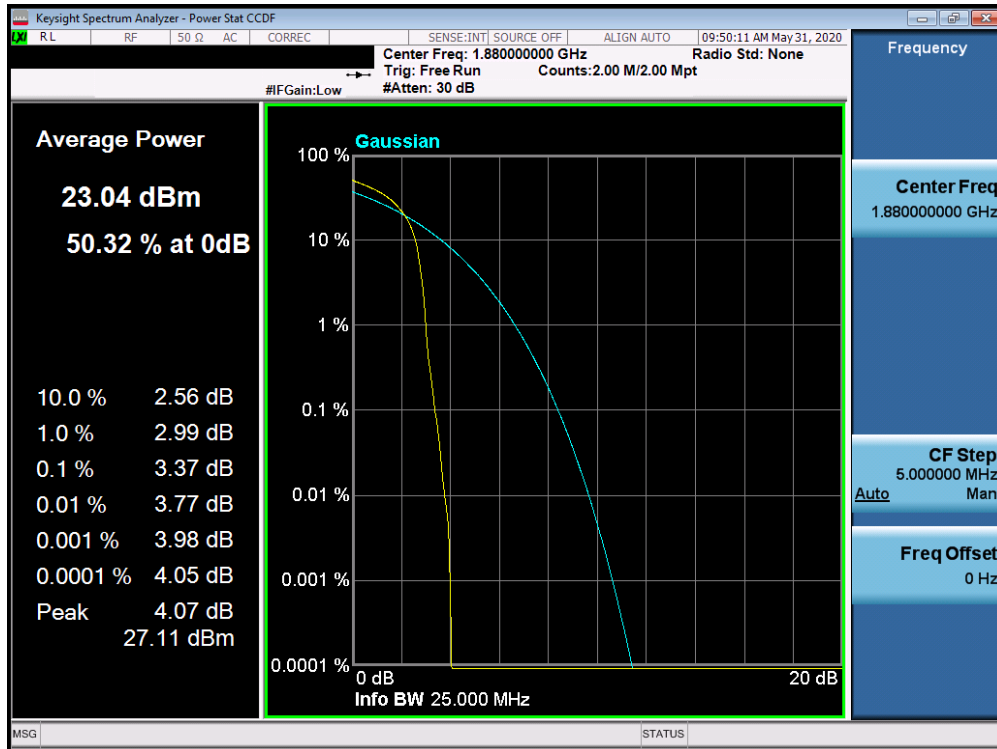


Plot 7-246. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

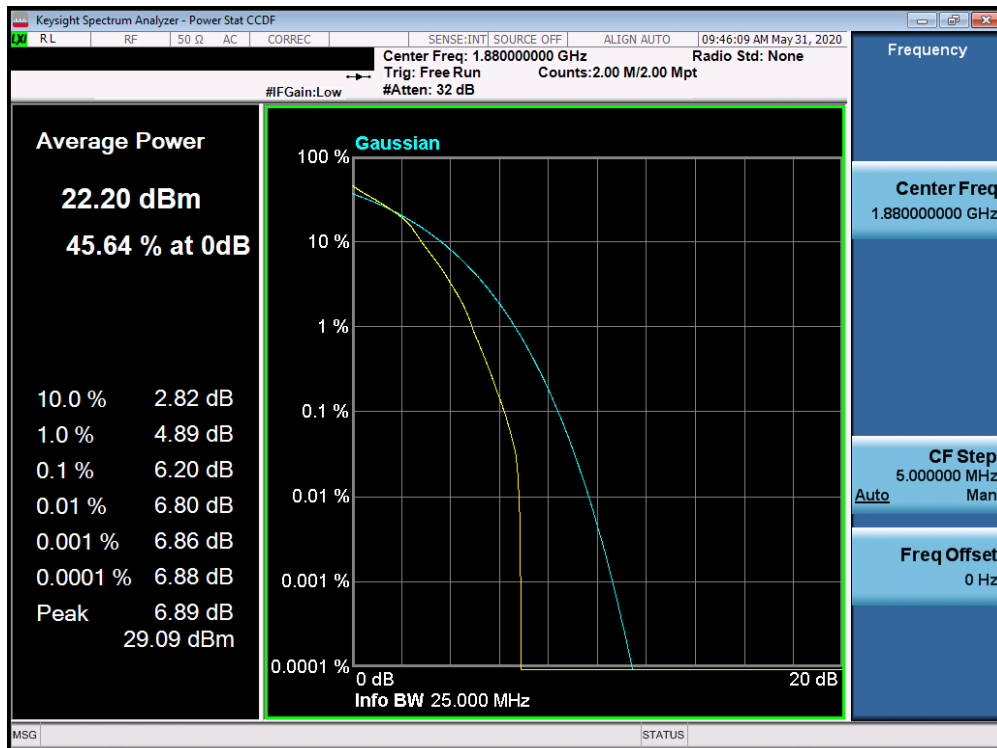


Plot 7-247. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 154 of 201



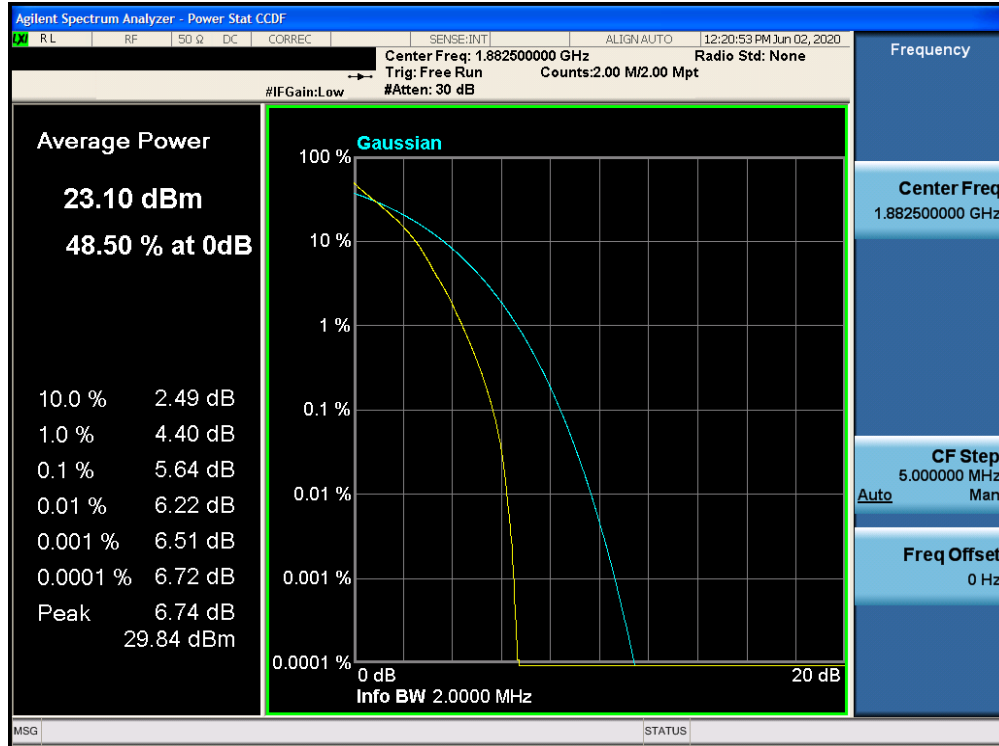
Plot 7-248. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



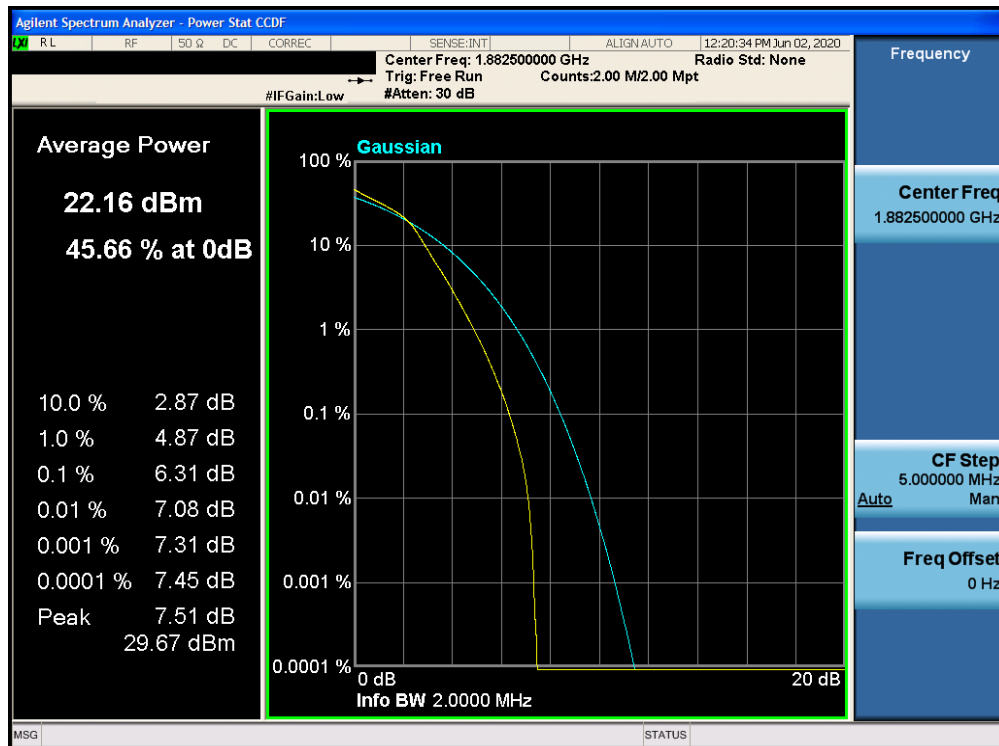
Plot 7-249. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 155 of 201

Band 25

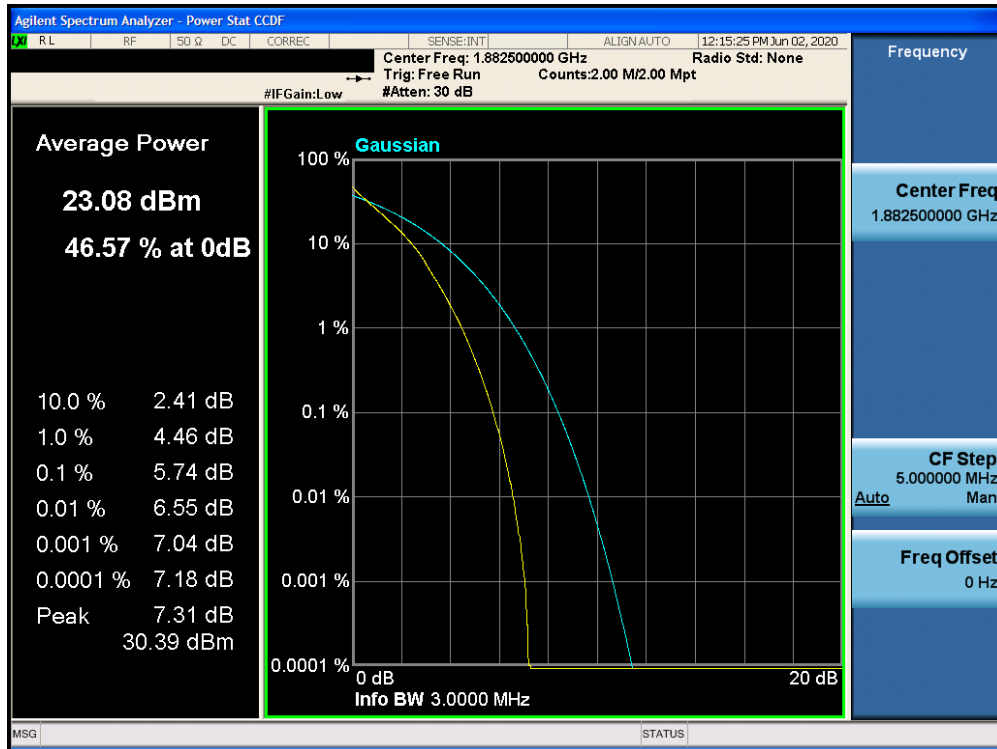


Plot 7-250. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

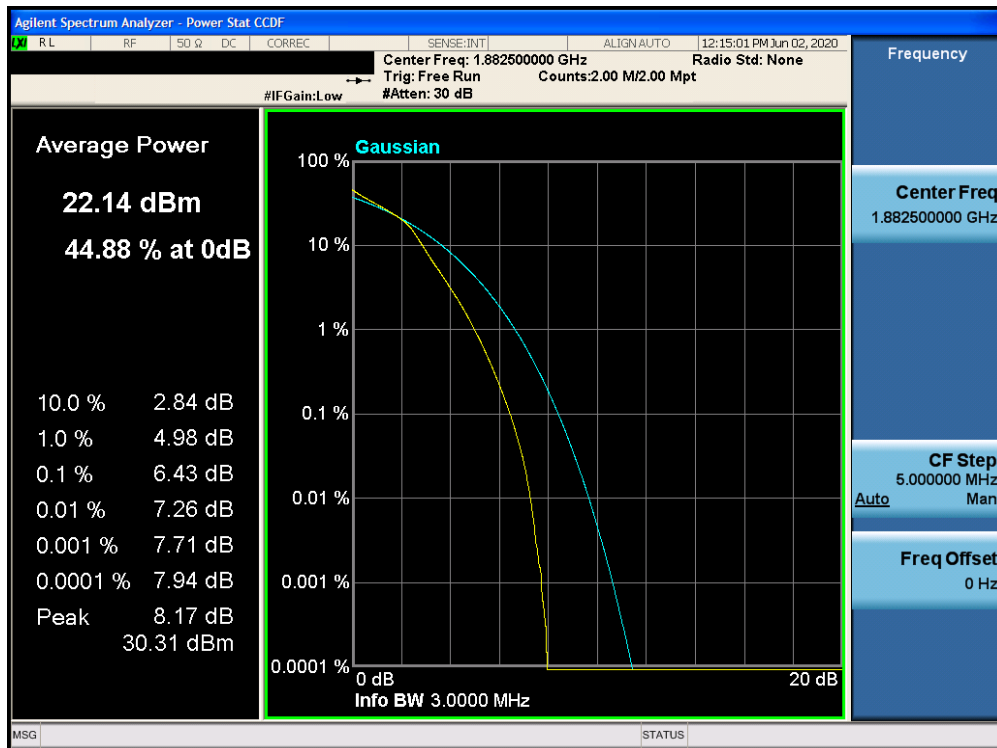


Plot 7-251. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 156 of 201

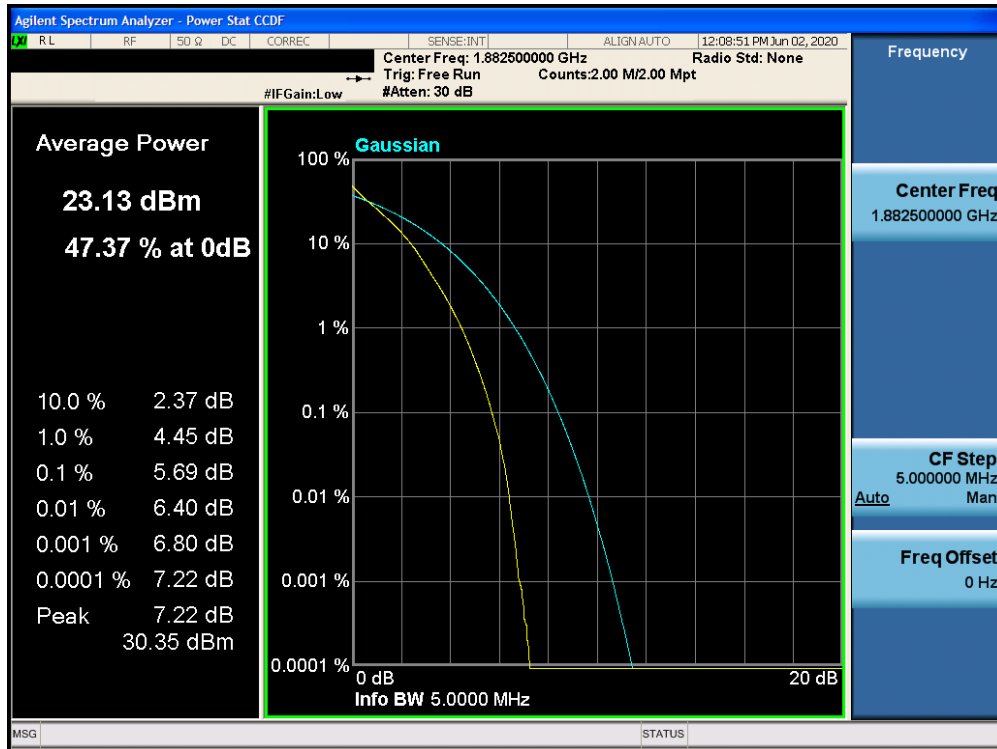


Plot 7-252. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

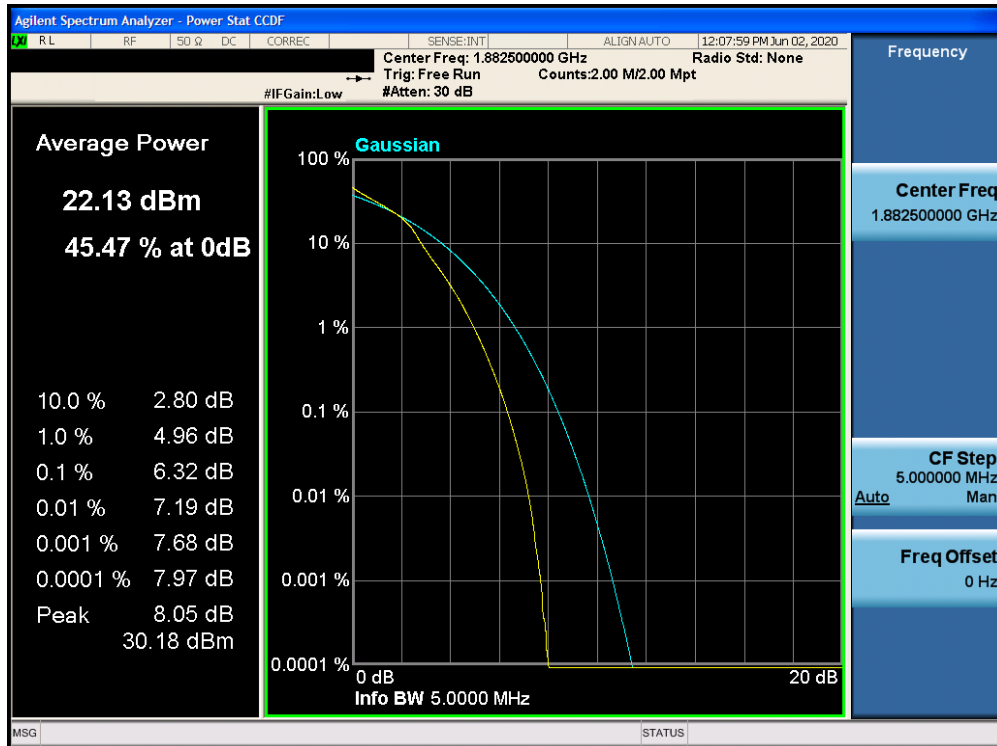


Plot 7-253. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 157 of 201

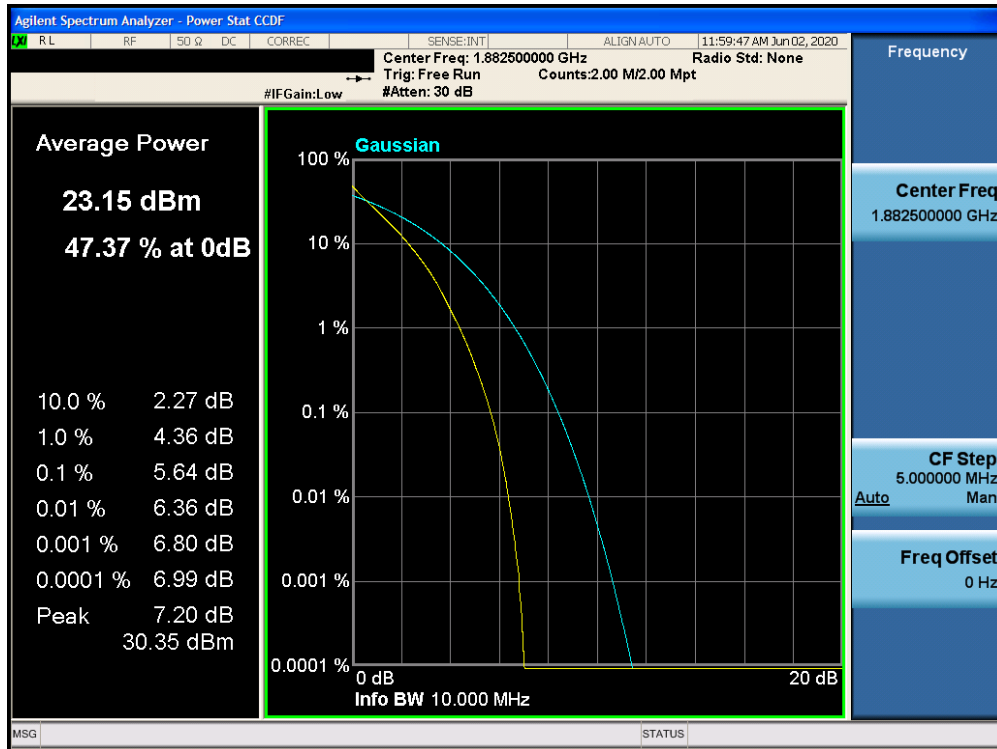


Plot 7-254. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

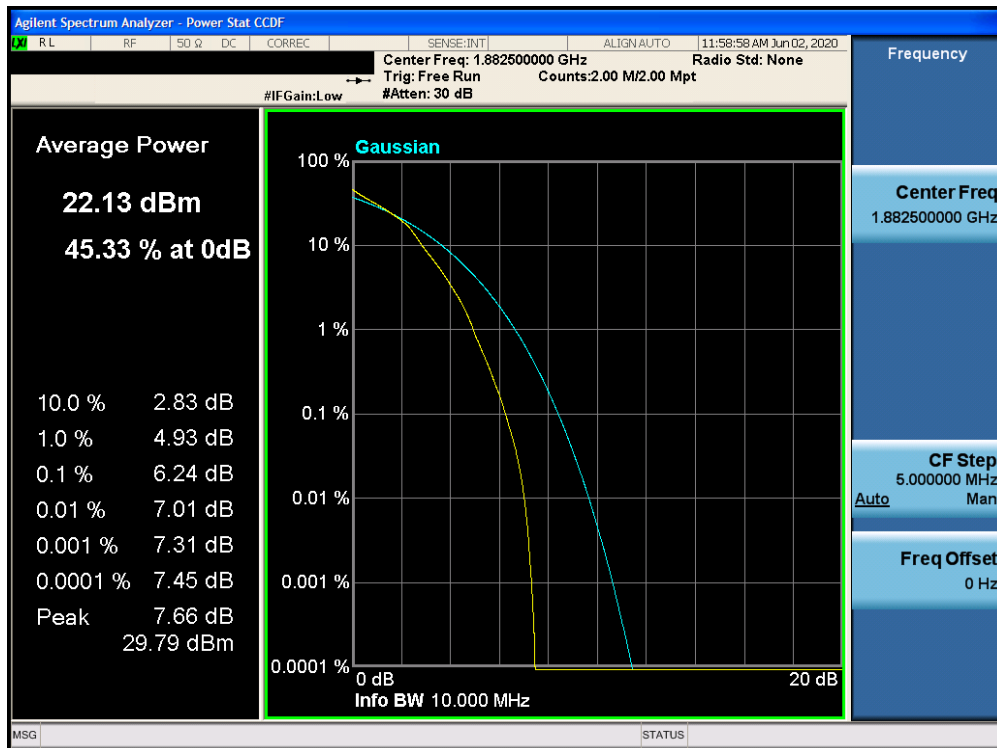


Plot 7-255. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 158 of 201

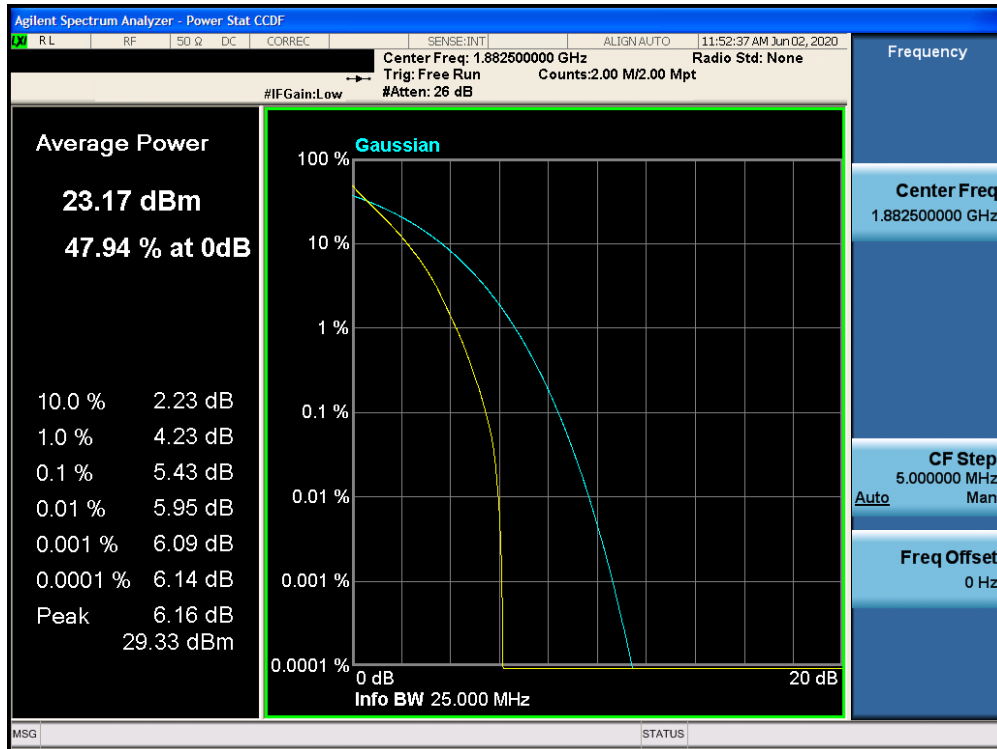


Plot 7-256. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

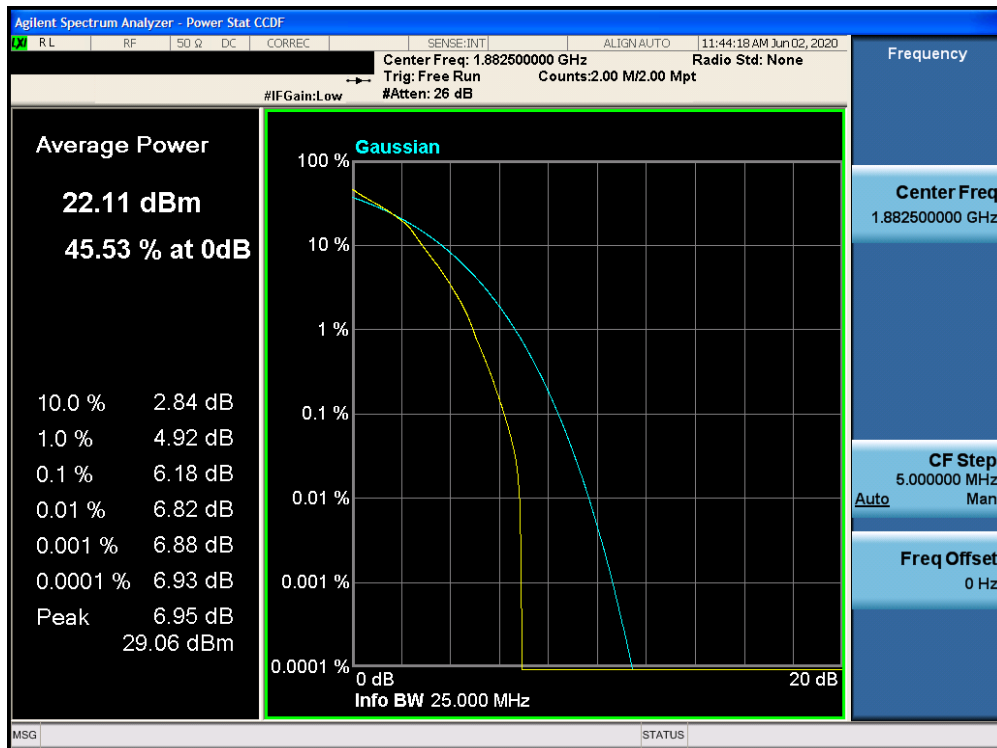


Plot 7-257. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 159 of 201

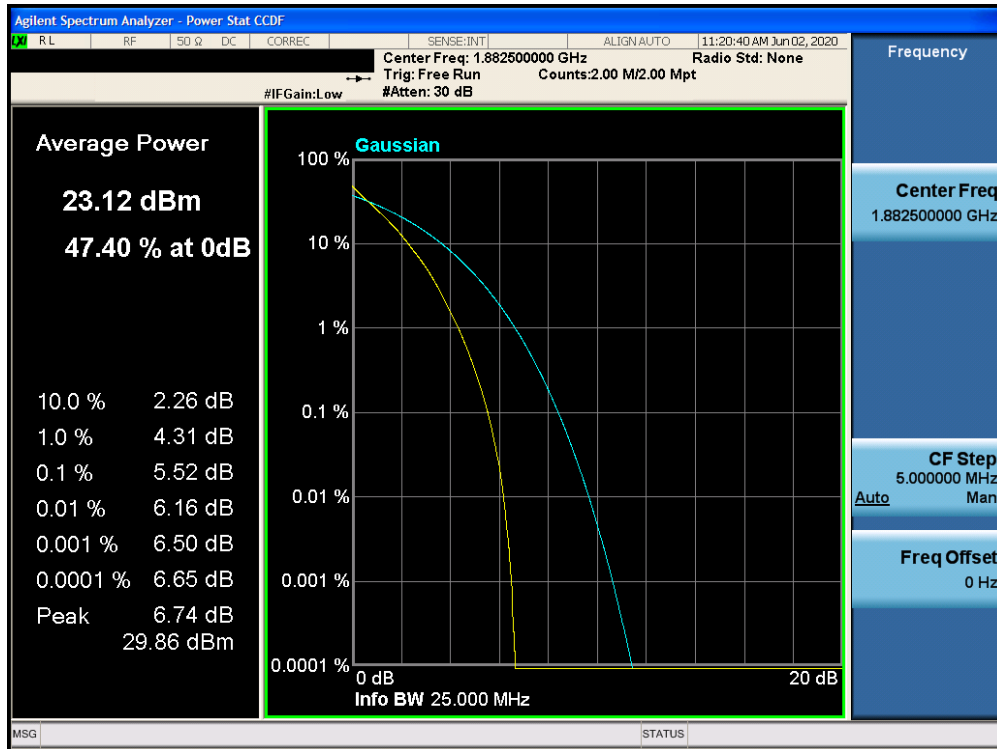


Plot 7-258. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

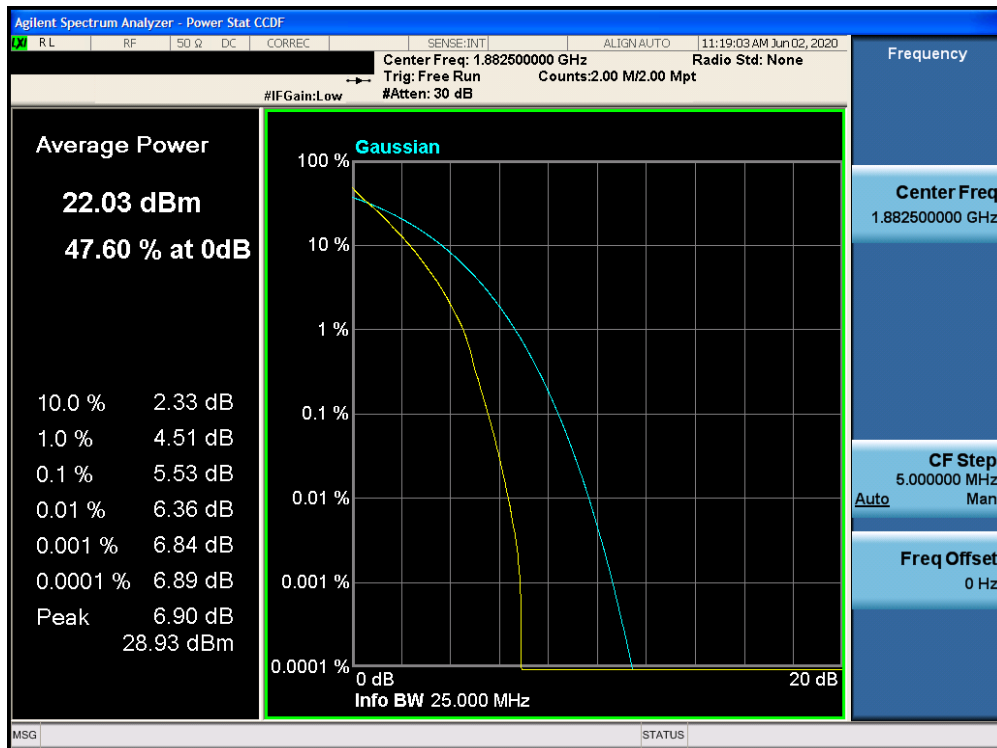


Plot 7-259. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 160 of 201



Plot 7-260. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-261. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 161 of 201

7.6 Radiated Power (ERP/EIRP)

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.
- 5) This device only supports 27RBs or less for 16-QAM uplink.

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.92	-26.20	-3.43	0.454	38.45	-41.88	-1.28	0.745	40.61	-41.89
836.50	1.4	QPSK	1 / 0	24.85	-26.20	-3.50	0.447	38.45	-41.95	-1.35	0.733	40.61	-41.96
848.30	1.4	QPSK	1 / 0	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
836.50	1.4	16-QAM	1 / 0	24.44	-26.20	-3.91	0.406	38.45	-42.36	-1.76	0.667	40.61	-42.37
825.50	3	QPSK	1 / 14	24.95	-26.20	-3.40	0.457	38.45	-41.85	-1.25	0.750	40.61	-41.86
836.50	3	QPSK	1 / 0	24.85	-26.20	-3.50	0.447	38.45	-41.95	-1.35	0.733	40.61	-41.96
847.50	3	QPSK	1 / 0	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
847.50	3	16-QAM	1 / 0	24.41	-26.20	-3.94	0.404	38.45	-42.39	-1.79	0.662	40.61	-42.40
826.50	5	QPSK	1 / 24	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
836.50	5	QPSK	1 / 24	24.96	-26.20	-3.39	0.458	38.45	-41.84	-1.24	0.752	40.61	-41.85
846.50	5	QPSK	1 / 12	24.83	-26.20	-3.52	0.445	38.45	-41.97	-1.37	0.729	40.61	-41.98
826.50	5	16-QAM	1 / 24	24.48	-26.20	-3.87	0.410	38.45	-42.32	-1.72	0.673	40.61	-42.33
829.00	10	QPSK	1 / 25	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
836.50	10	QPSK	1 / 0	24.85	-26.20	-3.50	0.447	38.45	-41.95	-1.35	0.733	40.61	-41.96
844.00	10	QPSK	1 / 49	24.93	-26.20	-3.42	0.455	38.45	-41.87	-1.27	0.746	40.61	-41.88
829.00	10	16-QAM	1 / 13	24.45	-26.20	-3.90	0.407	38.45	-42.35	-1.75	0.668	40.61	-42.36

Table 7-7. ERP/EIRP Data (Band 5)

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.95	-26.20	-3.40	0.457	38.45	-41.85	-1.25	0.750	40.61	-41.86
836.50	1.4	QPSK	1 / 0	24.87	-26.20	-3.48	0.449	38.45	-41.93	-1.33	0.736	40.61	-41.94
848.30	1.4	QPSK	1 / 0	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
836.50	1.4	16-QAM	1 / 0	24.46	-26.20	-3.89	0.408	38.45	-42.34	-1.74	0.670	40.61	-42.35
825.50	3	QPSK	1 / 14	24.93	-26.20	-3.42	0.455	38.45	-41.87	-1.27	0.746	40.61	-41.88
836.50	3	QPSK	1 / 0	24.89	-26.20	-3.46	0.451	38.45	-41.91	-1.31	0.740	40.61	-41.92
847.50	3	QPSK	1 / 0	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
836.50	3	16-QAM	1 / 7	24.45	-26.20	-3.90	0.407	38.45	-42.35	-1.75	0.668	40.61	-42.36
826.50	5	QPSK	1 / 24	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
836.50	5	QPSK	1 / 24	24.97	-26.20	-3.38	0.459	38.45	-41.83	-1.23	0.753	40.61	-41.84
846.50	5	QPSK	1 / 12	24.87	-26.20	-3.48	0.449	38.45	-41.93	-1.33	0.736	40.61	-41.94
826.50	5	16-QAM	1 / 12	24.41	-26.20	-3.94	0.404	38.45	-42.39	-1.79	0.662	40.61	-42.40
829.00	10	QPSK	1 / 25	25.00	-26.20	-3.35	0.462	38.45	-41.80	-1.20	0.759	40.61	-41.81
836.50	10	QPSK	1 / 0	24.95	-26.20	-3.40	0.457	38.45	-41.85	-1.25	0.750	40.61	-41.86
844.00	10	QPSK	1 / 25	24.90	-26.20	-3.45	0.452	38.45	-41.90	-1.30	0.741	40.61	-41.91
829.00	10	16-QAM	1 / 0	24.42	-26.20	-3.93	0.405	38.45	-42.38	-1.78	0.664	40.61	-42.39

Table 7-8. ERP/EIRP Data (Band 26)

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.81	-12.00	11.81	15.171	30.00	-18.19
1732.50	1.4	QPSK	1 / 0	23.83	-12.00	11.83	15.241	30.00	-18.17
1754.30	1.4	QPSK	1 / 0	24.00	-12.00	12.00	15.849	30.00	-18.00
1732.50	1.4	16-QAM	1 / 5	23.38	-12.00	11.38	13.740	30.00	-18.62
1711.50	3	QPSK	1 / 14	23.83	-12.00	11.83	15.241	30.00	-18.17
1732.50	3	QPSK	1 / 0	23.77	-12.00	11.77	15.031	30.00	-18.23
1753.50	3	QPSK	1 / 7	23.98	-12.00	11.98	15.776	30.00	-18.02
1753.50	3	16-QAM	1 / 14	23.42	-12.00	11.42	13.868	30.00	-18.58
1712.50	5	QPSK	1 / 24	24.00	-12.00	12.00	15.849	30.00	-18.00
1732.50	5	QPSK	1 / 12	23.93	-12.00	11.93	15.596	30.00	-18.07
1752.50	5	QPSK	1 / 0	23.95	-12.00	11.95	15.668	30.00	-18.05
1752.50	5	16-QAM	1 / 0	23.40	-12.00	11.40	13.804	30.00	-18.60
1715.00	10	QPSK	1 / 49	24.00	-12.00	12.00	15.849	30.00	-18.00
1732.50	10	QPSK	1 / 0	23.98	-12.00	11.98	15.776	30.00	-18.02
1750.00	10	QPSK	1 / 25	23.97	-12.00	11.97	15.740	30.00	-18.03
1732.50	10	16-QAM	1 / 0	23.57	-12.00	11.57	14.355	30.00	-18.43
1717.50	15	QPSK	1 / 36	24.00	-12.00	12.00	15.849	30.00	-18.00
1732.50	15	QPSK	1 / 74	23.90	-12.00	11.90	15.488	30.00	-18.10
1747.50	15	QPSK	1 / 0	23.91	-12.00	11.91	15.524	30.00	-18.09
1747.50	15	16-QAM	1 / 27	23.50	-12.00	11.50	14.125	30.00	-18.50
1720.00	20	QPSK	1 / 50	24.00	-12.00	12.00	15.849	30.00	-18.00
1732.50	20	QPSK	1 / 99	23.93	-12.00	11.93	15.596	30.00	-18.07
1745.00	20	QPSK	1 / 0	23.97	-12.00	11.97	15.740	30.00	-18.03
1732.50	20	16-QAM	1 / 27	23.43	-12.00	11.43	13.900	30.00	-18.57

Table 7-9. EIRP Data (Band 4)

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 165 of 201

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.75	-12.00	11.75	14.962	30.00	-18.25
1745.00	1.4	QPSK	1 / 2	24.00	-12.00	12.00	15.849	30.00	-18.00
1779.30	1.4	QPSK	1 / 0	23.82	-12.00	11.82	15.205	30.00	-18.18
1745.00	1.4	16-QAM	1 / 0	23.53	-12.00	11.53	14.223	30.00	-18.47
1711.50	3	QPSK	1 / 14	23.82	-12.00	11.82	15.205	30.00	-18.18
1745.00	3	QPSK	1 / 14	24.00	-12.00	12.00	15.849	30.00	-18.00
1778.50	3	QPSK	1 / 0	23.77	-12.00	11.77	15.031	30.00	-18.23
1745.00	3	16-QAM	1 / 7	23.42	-12.00	11.42	13.868	30.00	-18.58
1712.50	5	QPSK	1 / 12	24.00	-12.00	12.00	15.849	30.00	-18.00
1745.00	5	QPSK	1 / 24	24.00	-12.00	12.00	15.849	30.00	-18.00
1777.50	5	QPSK	1 / 0	23.75	-12.00	11.75	14.962	30.00	-18.25
1745.00	5	16-QAM	1 / 24	23.32	-12.00	11.32	13.552	30.00	-18.68
1715.00	10	QPSK	1 / 49	24.00	-12.00	12.00	15.849	30.00	-18.00
1745.00	10	QPSK	1 / 0	23.98	-12.00	11.98	15.776	30.00	-18.02
1775.00	10	QPSK	1 / 25	23.82	-12.00	11.82	15.205	30.00	-18.18
1745.00	10	16-QAM	1 / 0	23.47	-12.00	11.47	14.028	30.00	-18.53
1717.50	15	QPSK	1 / 36	24.00	-12.00	12.00	15.849	30.00	-18.00
1745.00	15	QPSK	1 / 74	24.00	-12.00	12.00	15.849	30.00	-18.00
1772.50	15	QPSK	1 / 36	23.71	-12.00	11.71	14.825	30.00	-18.29
1745.00	15	16-QAM	1 / 27	23.37	-12.00	11.37	13.709	30.00	-18.63
1720.00	20	QPSK	1 / 50	24.00	-12.00	12.00	15.849	30.00	-18.00
1745.00	20	QPSK	1 / 50	23.99	-12.00	11.99	15.812	30.00	-18.01
1770.00	20	QPSK	1 / 99	23.90	-12.00	11.90	15.488	30.00	-18.10
1745.00	20	16-QAM	1 / 13	23.48	-12.00	11.48	14.060	30.00	-18.52

Table 7-10. EIRP Data (Band 66)

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 166 of 201

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	23.68	-11.70	11.98	15.776	33.01	-21.03
1880.00	1.4	QPSK	1 / 5	23.73	-11.70	12.03	15.959	33.01	-20.98
1909.30	1.4	QPSK	1 / 0	23.92	-11.70	12.22	16.672	33.01	-20.79
1880.00	1.4	16-QAM	1 / 5	23.33	-11.70	11.63	14.555	33.01	-21.38
1851.50	3	QPSK	1 / 7	23.70	-11.70	12.00	15.849	33.01	-21.01
1880.00	3	QPSK	1 / 14	23.72	-11.70	12.02	15.922	33.01	-20.99
1908.50	3	QPSK	1 / 7	23.76	-11.70	12.06	16.069	33.01	-20.95
1908.50	3	16-QAM	1 / 7	23.27	-11.70	11.57	14.355	33.01	-21.44
1852.50	5	QPSK	1 / 24	23.93	-11.70	12.23	16.711	33.01	-20.78
1880.00	5	QPSK	1 / 24	23.96	-11.70	12.26	16.827	33.01	-20.75
1907.50	5	QPSK	1 / 12	23.71	-11.70	12.01	15.885	33.01	-21.00
1880.00	5	16-QAM	1 / 24	23.38	-11.70	11.68	14.723	33.01	-21.33
1855.00	10	QPSK	1 / 49	23.80	-11.70	12.10	16.218	33.01	-20.91
1880.00	10	QPSK	1 / 49	23.84	-11.70	12.14	16.368	33.01	-20.87
1905.00	10	QPSK	1 / 49	23.69	-11.70	11.99	15.812	33.01	-21.02
1880.00	10	16-QAM	1 / 13	23.31	-11.70	11.61	14.488	33.01	-21.40
1857.50	15	QPSK	1 / 36	24.00	-11.70	12.30	16.982	33.01	-20.71
1880.00	15	QPSK	1 / 74	23.78	-11.70	12.08	16.144	33.01	-20.93
1902.50	15	QPSK	1 / 74	23.69	-11.70	11.99	15.812	33.01	-21.02
1880.00	15	16-QAM	1 / 27	23.38	-11.70	11.68	14.723	33.01	-21.33
1860.00	20	QPSK	1 / 50	23.85	-11.70	12.15	16.406	33.01	-20.86
1880.00	20	QPSK	1 / 99	23.82	-11.70	12.12	16.293	33.01	-20.89
1900.00	20	QPSK	1 / 99	23.93	-11.70	12.23	16.711	33.01	-20.78
1880.00	20	16-QAM	1 / 27	23.31	-11.70	11.61	14.488	33.01	-21.40

Table 7-11. EIRP Data (Band 2)

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	23.91	-11.70	12.21	16.634	33.01	-20.80
1882.50	1.4	QPSK	1 / 2	24.00	-11.70	12.30	16.982	33.01	-20.71
1914.30	1.4	QPSK	1 / 5	23.79	-11.70	12.09	16.181	33.01	-20.92
1882.50	1.4	16-QAM	1 / 0	23.59	-11.70	11.89	15.453	33.01	-21.12
1851.50	3	QPSK	1 / 7	23.91	-11.70	12.21	16.634	33.01	-20.80
1882.50	3	QPSK	1 / 14	23.98	-11.70	12.28	16.904	33.01	-20.73
1913.50	3	QPSK	1 / 0	23.65	-11.70	11.95	15.668	33.01	-21.06
1882.50	3	16-QAM	1 / 14	23.45	-11.70	11.75	14.962	33.01	-21.26
1852.50	5	QPSK	1 / 24	23.92	-11.70	12.22	16.672	33.01	-20.79
1882.50	5	QPSK	1 / 24	24.00	-11.70	12.30	16.982	33.01	-20.71
1912.50	5	QPSK	1 / 0	23.88	-11.70	12.18	16.520	33.01	-20.83
1882.50	5	16-QAM	1 / 24	23.39	-11.70	11.69	14.757	33.01	-21.32
1855.00	10	QPSK	1 / 49	24.00	-11.70	12.30	16.982	33.01	-20.71
1882.50	10	QPSK	1 / 49	24.00	-11.70	12.30	16.982	33.01	-20.71
1910.00	10	QPSK	1 / 25	23.92	-11.70	12.22	16.672	33.01	-20.79
1855.00	10	16-QAM	1 / 27	23.58	-11.70	11.88	15.417	33.01	-21.13
1857.50	15	QPSK	1 / 36	24.00	-11.70	12.30	16.982	33.01	-20.71
1882.50	15	QPSK	1 / 36	23.82	-11.70	12.12	16.293	33.01	-20.89
1907.50	15	QPSK	1 / 36	23.94	-11.70	12.24	16.749	33.01	-20.77
1907.50	15	16-QAM	1 / 13	23.46	-11.70	11.76	14.997	33.01	-21.25
1860.00	20	QPSK	1 / 50	24.00	-11.70	12.30	16.982	33.01	-20.71
1882.50	20	QPSK	1 / 99	23.95	-11.70	12.25	16.788	33.01	-20.76
1905.00	20	QPSK	1 / 50	23.91	-11.70	12.21	16.634	33.01	-20.80
1882.50	20	16-QAM	1 / 27	23.44	-11.70	11.74	14.928	33.01	-21.27

Table 7-12. EIRP Data (Band 25)

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 168 of 201

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	23.44	-2.30	21.14	130.017	33.01	-11.87
2535.00	5	QPSK	1 / 24	23.24	-2.30	20.94	124.165	33.01	-12.07
2567.50	5	QPSK	1 / 24	23.50	-2.30	21.20	131.826	33.01	-11.81
2502.50	5	16-QAM	1 / 0	22.86	-2.30	20.56	113.763	33.01	-12.45
2505.00	10	QPSK	1 / 49	23.36	-2.30	21.06	127.644	33.01	-11.95
2535.00	10	QPSK	1 / 49	23.31	-2.30	21.01	126.183	33.01	-12.00
2565.00	10	QPSK	1 / 49	23.50	-2.30	21.20	131.826	33.01	-11.81
2565.00	10	16-QAM	1 / 27	22.94	-2.30	20.64	115.878	33.01	-12.37
2507.50	15	QPSK	1 / 74	23.50	-2.30	21.20	131.826	33.01	-11.81
2535.00	15	QPSK	1 / 74	23.36	-2.30	21.06	127.644	33.01	-11.95
2562.50	15	QPSK	1 / 0	23.17	-2.30	20.87	122.180	33.01	-12.14
2562.50	15	16-QAM	1 / 0	22.77	-2.30	20.47	111.429	33.01	-12.54
2510.00	20	QPSK	1 / 99	23.50	-2.30	21.20	131.826	33.01	-11.81
2535.00	20	QPSK	1 / 99	23.41	-2.30	21.11	129.122	33.01	-11.90
2560.00	20	QPSK	1 / 99	23.41	-2.30	21.11	129.122	33.01	-11.90
2535.00	20	16-QAM	1 / 27	22.92	-2.30	20.62	115.345	33.01	-12.39

Table 7-13. EIRP Data (Band 7)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 169 of 201

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [mW]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	23.50	-2.30	21.20	131.826	33.01	-11.81
2593.00	5	QPSK	1 / 24	23.38	-2.30	21.08	128.233	33.01	-11.93
2687.50	5	QPSK	1 / 24	23.40	-2.30	21.10	128.825	33.01	-11.91
2687.50	5	16-QAM	1 / 24	22.52	-2.30	20.22	105.196	33.01	-12.79
2501.00	10	QPSK	1 / 25	23.45	-2.30	21.15	130.317	33.01	-11.86
2593.00	10	QPSK	1 / 49	23.31	-2.30	21.01	126.183	33.01	-12.00
2685.00	10	QPSK	1 / 49	23.50	-2.30	21.20	131.826	33.01	-11.81
2685.00	10	16-QAM	1 / 13	22.56	-2.30	20.26	106.170	33.01	-12.75
2503.50	15	QPSK	1 / 0	23.49	-2.30	21.19	131.522	33.01	-11.82
2593.00	15	QPSK	1 / 74	23.39	-2.30	21.09	128.529	33.01	-11.92
2682.50	15	QPSK	1 / 36	23.39	-2.30	21.09	128.529	33.01	-11.92
2682.50	15	16-QAM	1 / 27	22.39	-2.30	20.09	102.094	33.01	-12.92
2506.00	20	QPSK	1 / 99	23.50	-2.30	21.20	131.826	33.01	-11.81
2593.00	20	QPSK	1 / 99	23.32	-2.30	21.02	126.474	33.01	-11.99
2680.00	20	QPSK	1 / 99	23.36	-2.30	21.06	127.644	33.01	-11.95
2680.00	20	16-QAM	1 / 0	22.59	-2.30	20.29	106.905	33.01	-12.72

Table 7-14. EIRP Data (Band 41)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 170 of 201

7.7 Radiated Spurious Emissions

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 – Section 2.2.12

Test Settings

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

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Test Setup

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

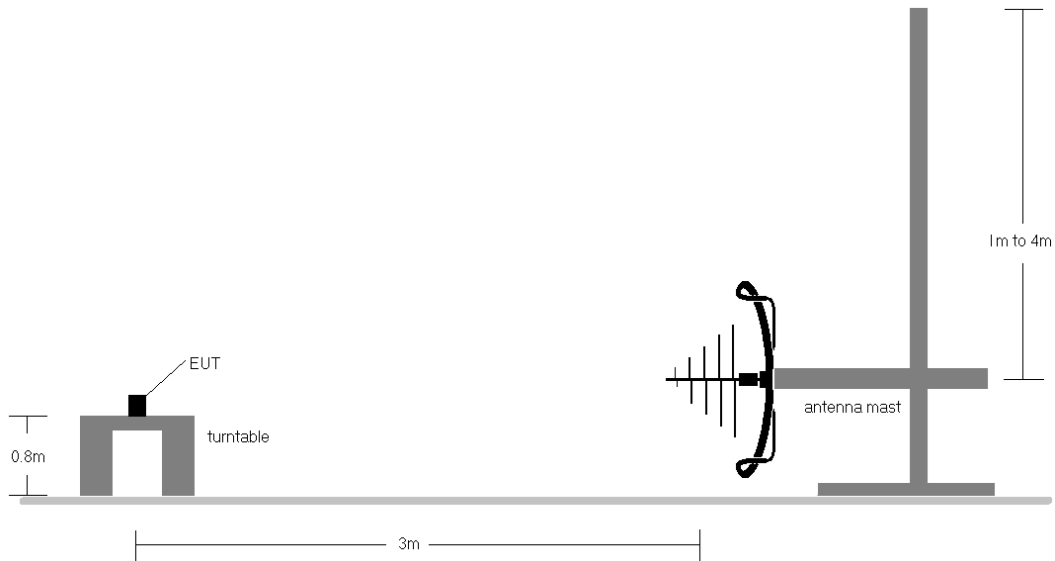


Figure 7-6. Radiated Measurement Setup < 1GHz

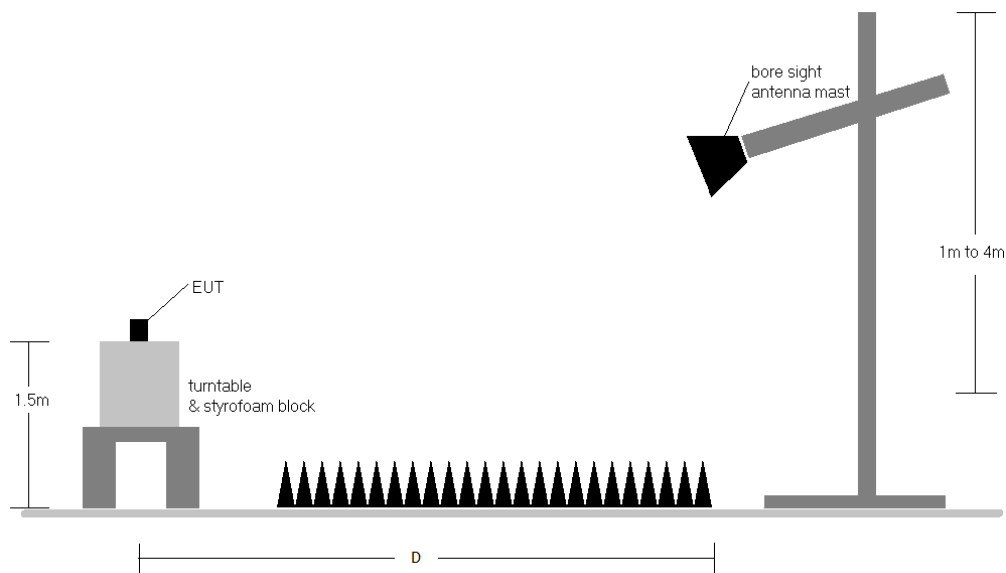


Figure 7-7. Radiated Measurement Setup > 1GHz

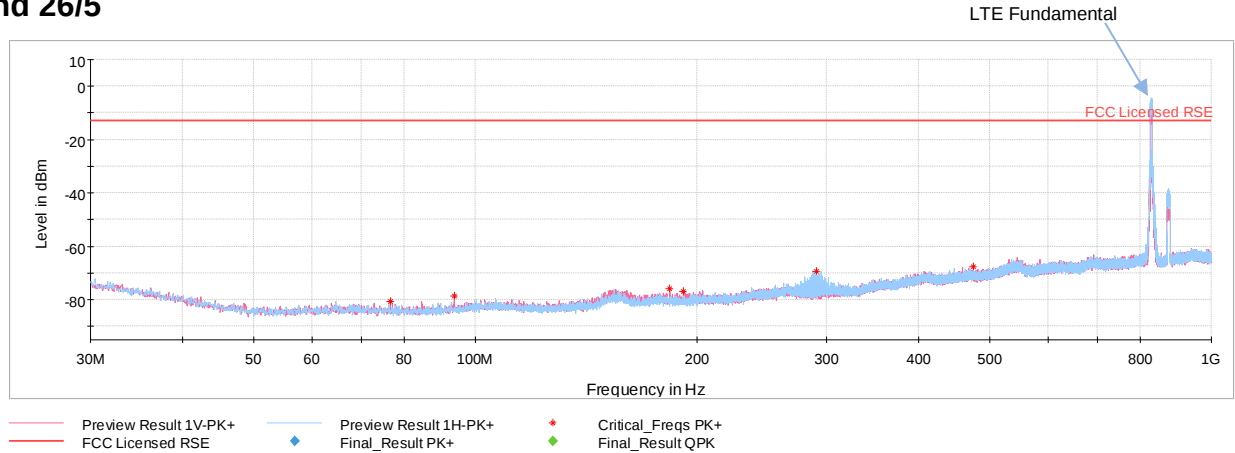
FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 172 of 201

Test Notes

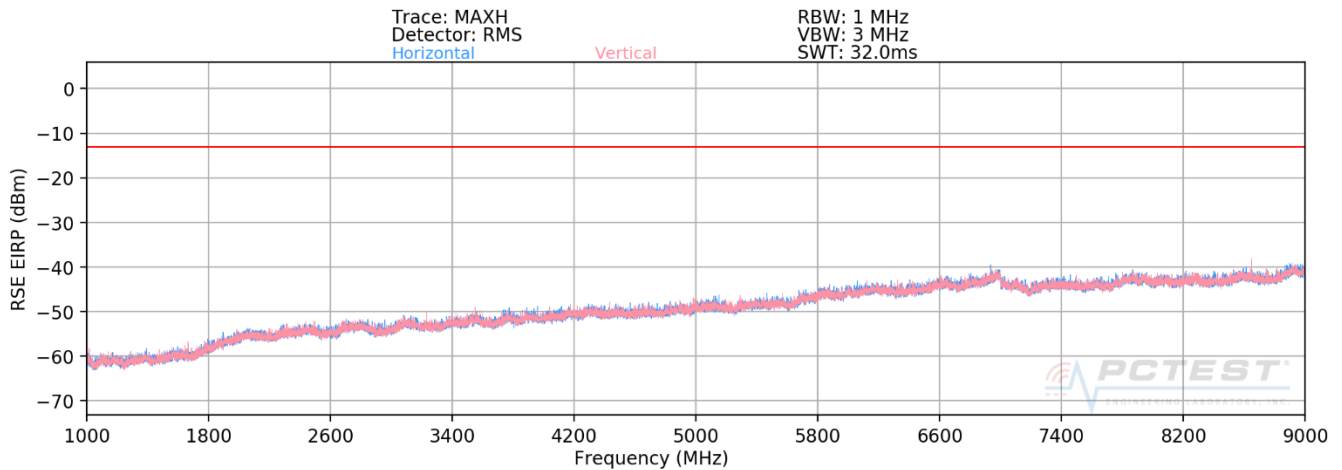
- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations this section. QPSK/10MHz/1RB was found and reported as worst case configuration for low bands and QPSK/20MHz/1RB was found and reported as worst case configuration for mid/high bands.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) "D" is 3 meter distance for 1GHz – 18GHz measurements and 1 meter distance for above 18GHz with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 6) No significant emissions were found for below 1GHz and Above 18GHz measurement.
- 7) The intermodulation emissions were tested against the less stringent limit across all rule parts applicable to simultaneous transmitters.

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 26/5



Plot 7-262. Radiated Spurious Emissions below 1GHz (Band 26/5)



Plot 7-263. Radiated Spurious Emissions above 1GHz (Band 26/5)

FCC ID: BCG-A2376		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 174 of 201

OPERATING FREQUENCY: 829.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 10.0 MHz

DISTANCE: 3 meters

LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	44	258	-63.64	4.19	-59.44	-46.4
2487.00	H	345	284	-62.03	4.11	-57.92	-44.9
3316.00	H	-	-	-68.60	6.46	-62.14	-49.1
4145.00	H	-	-	-68.53	7.82	-60.71	-47.7

Table 7-15. Radiated Spurious Data (Band 26/5 – Low Channel)

OPERATING FREQUENCY: 836.50 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 10.0 MHz

DISTANCE: 3 meters

LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	147	164	-68.67	4.20	-64.47	-51.5
2509.50	H	28	64	-64.01	4.12	-59.89	-46.9
3346.00	H	-	-	-68.08	6.45	-61.63	-48.6
4182.50	H	-	-	-67.49	7.87	-59.62	-46.6

Table 7-16. Radiated Spurious Data (Band 26/5 – Mid Channel)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 175 of 201

OPERATING FREQUENCY: 844.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 10.0 MHz

DISTANCE: 3 meters

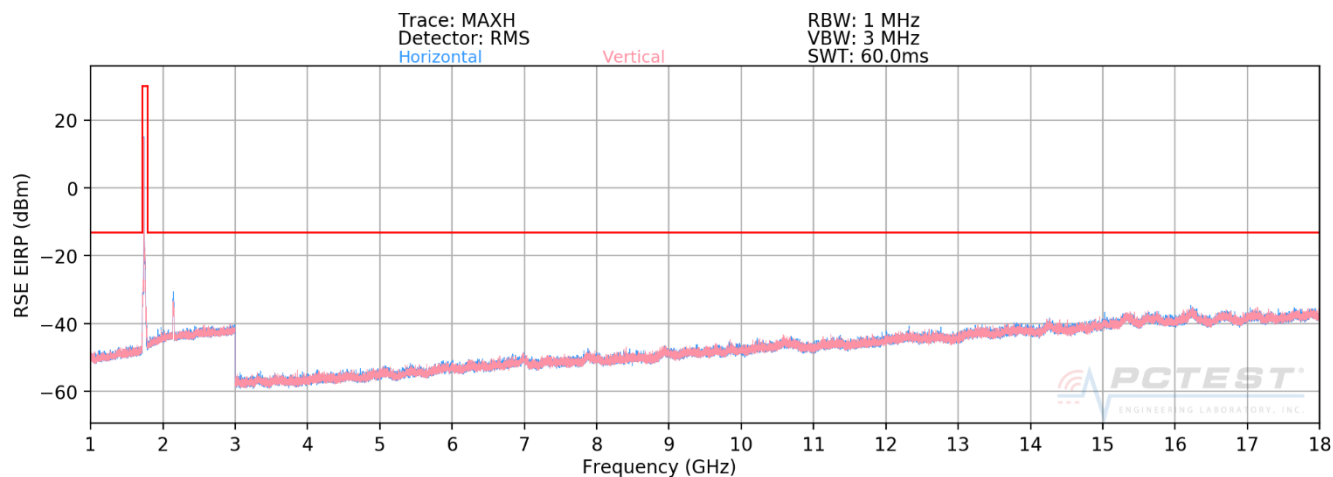
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	114	89	-63.38	4.18	-59.20	-46.2
2532.00	H	314	79	-63.88	4.14	-59.74	-46.7
3376.00	H	-	-	-67.52	6.52	-61.01	-48.0
4220.00	H	-	-	-68.91	7.92	-60.98	-48.0

Table 7-17. Radiated Spurious Data (Band 26/5 – High Channel)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 176 of 201

Band 66/4



Plot 7-264. Radiated Spurious Emissions above 1GHz (Band 66/4)

OPERATING FREQUENCY: 1720.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	356	143	-68.50	6.68	-61.82	-48.8
5160.00	H	39	296	-69.54	8.97	-60.57	-47.6
6880.00	H	-	-	-66.87	9.43	-57.44	-44.4
8600.00	H	-	-	-65.62	9.58	-56.04	-43.0

Table 7-18. Radiated Spurious Data (Band 66/4 – Low Channel)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch		Page 177 of 201

OPERATING FREQUENCY: 1745.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz

DISTANCE: 3 meters

LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	268	86	-66.98	6.82	-60.17	-47.2
5235.00	H	-	-	-65.63	9.03	-56.59	-43.6
6980.00	H	-	-	-62.86	9.45	-53.41	-40.4
8725.00	H	-	-	-63.00	9.58	-53.42	-40.4

Table 7-19. Radiated Spurious Data (Band 66/4 – Mid Channel)

OPERATING FREQUENCY: 1770.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz

DISTANCE: 3 meters

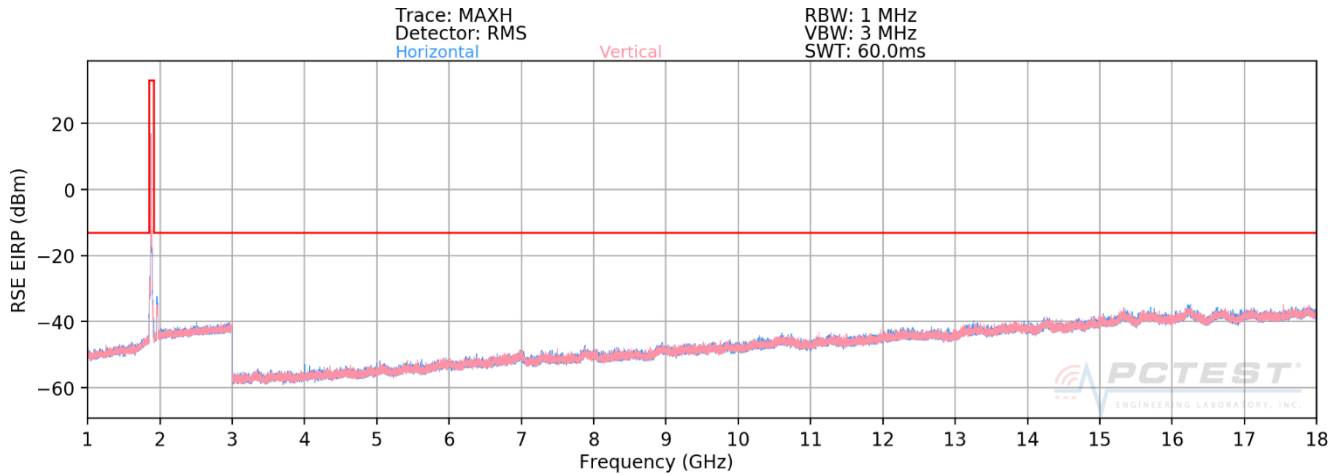
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	0	132	-68.58	6.76	-61.82	-48.8
5310.00	V	3	163	-64.70	9.00	-55.70	-42.7
7080.00	H	-	-	-67.26	9.39	-57.87	-44.9

Table 7-20. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 178 of 201

Band 25/2



Plot 7-265. Radiated Spurious Emissions above 1GHz (Band 25/2)

OPERATING FREQUENCY: 1860.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	150	350	-68.93	7.21	-61.71	-48.7
5580.00	H	-	-	-67.92	9.28	-58.64	-45.6
7440.00	H	-	-	-65.27	9.26	-56.01	-43.0
9300.00	H	-	-	-62.64	9.39	-53.25	-40.2

Table 7-21. Radiated Spurious Data (Band 25/2 – Low Channel)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch		Page 179 of 201

OPERATING FREQUENCY: 1882.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz

DISTANCE: 3 meters

LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3764.00	H	150	327	-68.40	7.24	-61.16	-48.2
5646.00	H	150	346	-68.32	9.29	-59.03	-46.0
7528.00	H	-	-	-65.69	9.29	-56.40	-43.4
9410.00	H	-	-	-62.45	9.42	-53.03	-40.0

Table 7-22. Radiated Spurious Data (Band 25/2 – Mid Channel)

OPERATING FREQUENCY: 1905.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz

DISTANCE: 3 meters

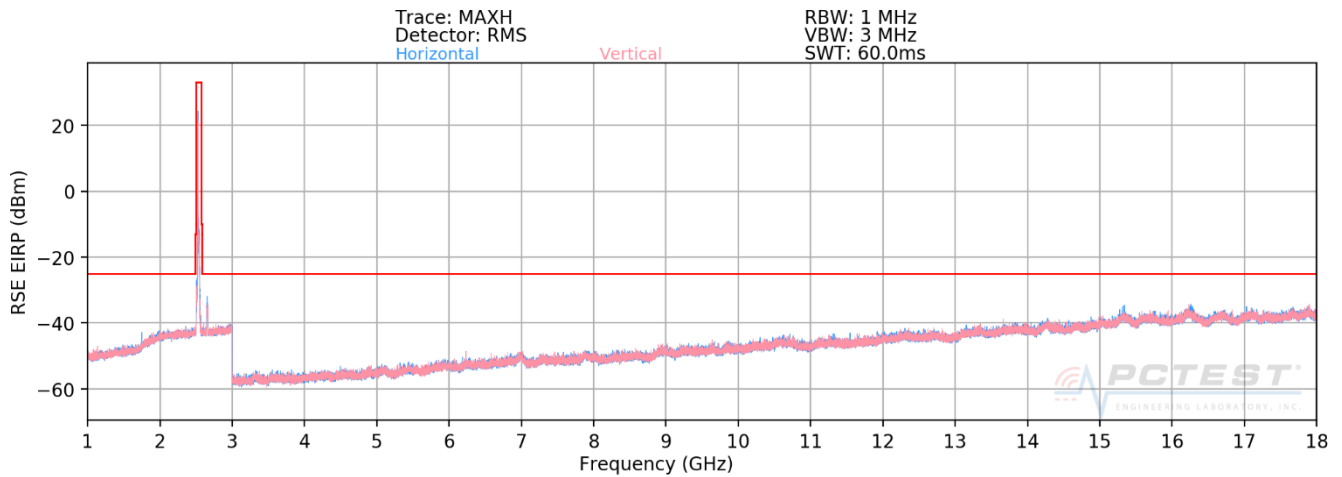
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	150	345	-68.47	7.31	-61.16	-48.2
5715.00	H	-	-	-68.22	9.32	-58.90	-45.9
7620.00	H	-	-	-65.58	9.27	-56.31	-43.3
9525.00	H	-	-	-62.57	9.44	-53.13	-40.1

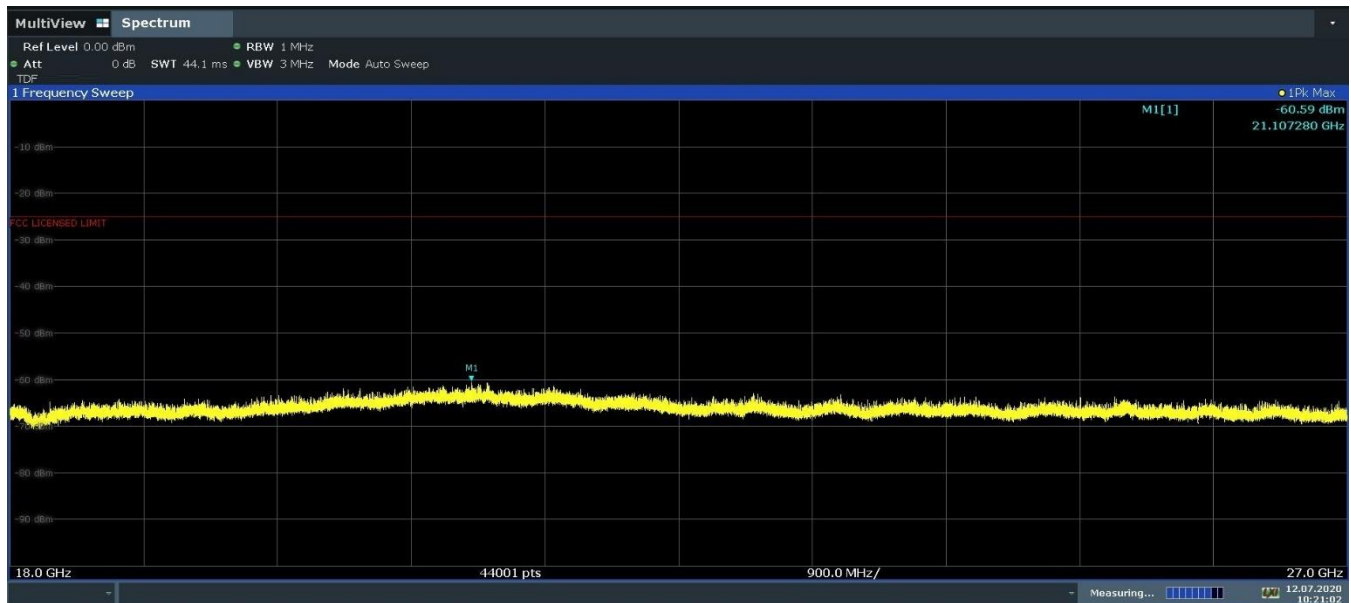
Table 7-23. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 180 of 201

Band 7



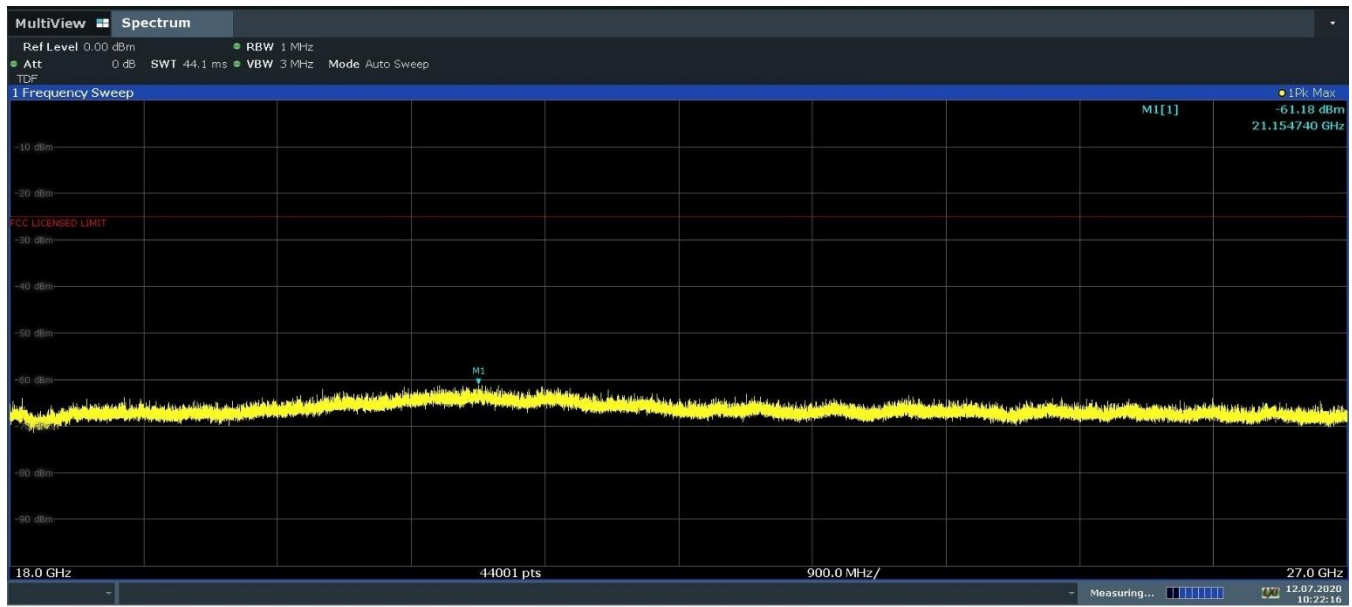
Plot 7-266. Radiated Spurious Emissions 1GHz - 18GHz (Band 7)



10:21:03 12.07.2020

Plot 7-267. Radiated Spurious Emissions 18GHz – 27GHz (Band 7, Pol. H)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 181 of 201



10:22:17 12.07.2020

Plot 7-268. Radiated Spurious Emissions 18GHz – 27GHz (Band 7, Pol. V)

OPERATING FREQUENCY: 2510.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	359	7	-59.22	8.69	-50.53	-25.5
7530.00	V	-	-	-65.73	9.29	-56.44	-31.4
10040.00	V	-	-	-62.08	9.46	-52.62	-27.6
12550.00	V	-	-	-58.46	9.22	-49.24	-24.2

Table 7-24. Radiated Spurious Data (Band 7 – Low Channel)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch		Page 182 of 201

OPERATING FREQUENCY: 2535.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	150	65	-66.75	8.81	-57.94	-32.9
7605.00	V	-	-	-65.76	9.26	-56.50	-31.5
10140.00	V	-	-	-61.51	9.47	-52.04	-27.0
12675.00	V	-	-	-57.94	9.21	-48.73	-23.7

Table 7-25. Radiated Spurious Data (Band 7 – Mid Channel)

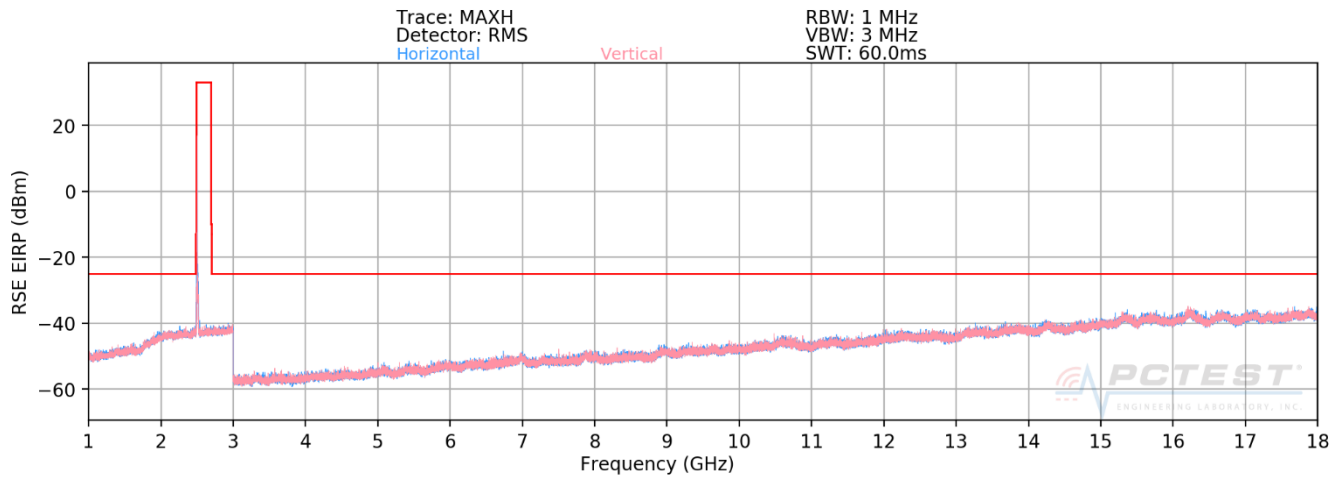
OPERATING FREQUENCY: 2560.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	150	58	-66.16	8.89	-57.27	-32.3
7680.00	V	-	-	-65.08	9.28	-55.80	-30.8
10240.00	V	-	-	-61.71	9.42	-52.29	-27.3
12800.00	V	-	-	-57.60	9.17	-48.43	-23.4

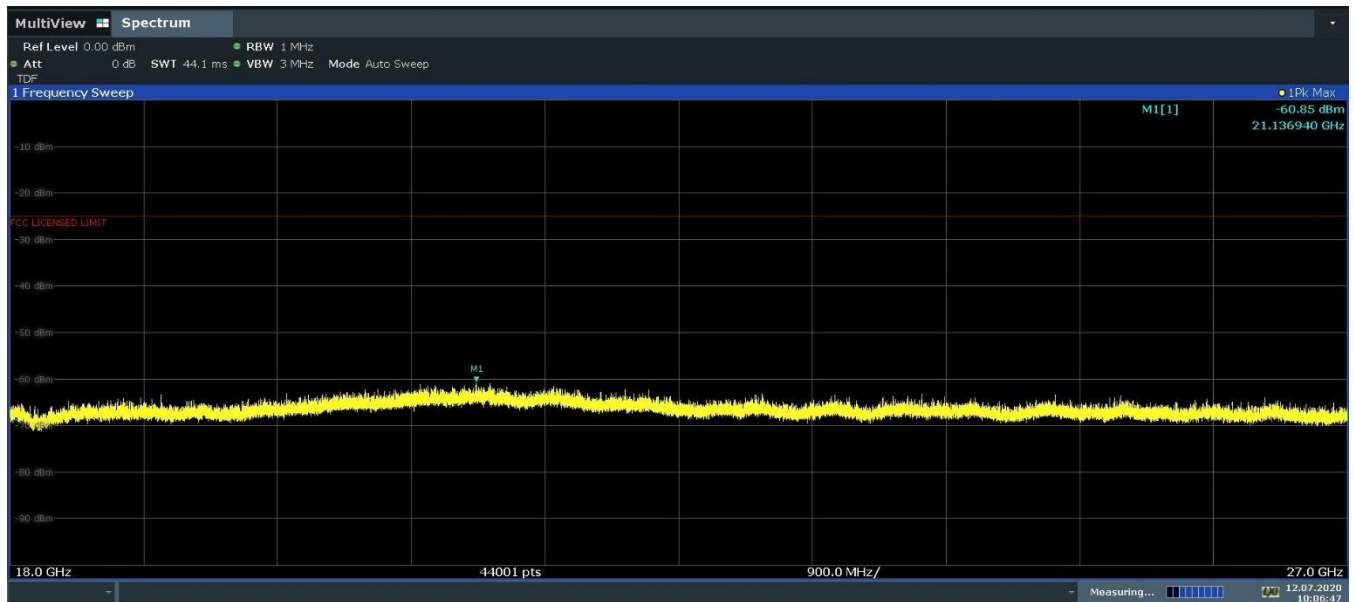
Table 7-26. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 183 of 201

Band 41



Plot 7-269. Radiated Spurious Emissions 1GHz - 18GHz (Band 41)



10:06:47 12.07.2020

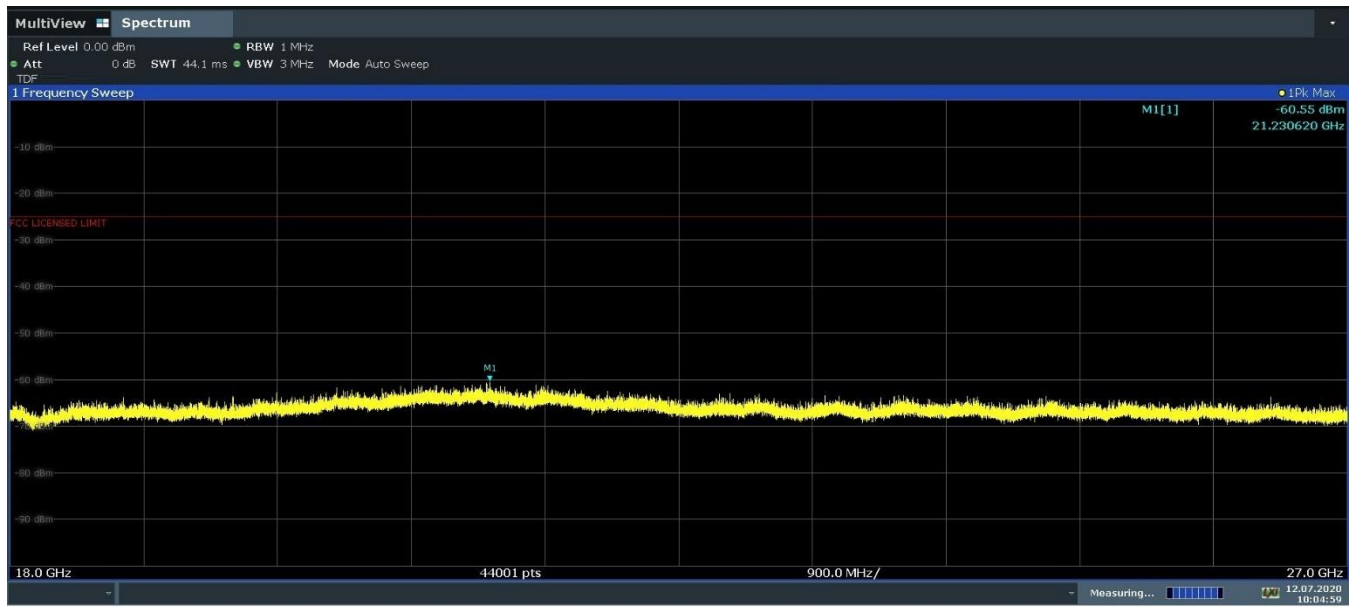
Plot 7-270. Radiated Spurious Emissions 18GHz – 27GHz (Band 41, Pol. H)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 184 of 201

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10:05:00 12.07.2020

Plot 7-271. Radiated Spurious Emissions 18GHz – 27GHz (Band 41, Pol. V)

OPERATING FREQUENCY: 2506.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	334	20	-56.39	8.67	-47.72	-22.7
7518.00	V	352	267	-56.90	9.29	-47.61	-22.6
10024.00	V	-	-	-56.15	9.45	-46.70	-21.7
12530.00	V	-	-	-52.33	9.22	-43.11	-18.1

Table 7-27. Radiated Spurious Data (Band 41 – Low Channel)

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 185 of 201

OPERATING FREQUENCY: 2593.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	7	359	-56.38	9.04	-47.34	-22.3
7779.00	V	40	257	-57.95	9.27	-48.68	-23.7
10372.00	V	-	-	-55.29	9.40	-45.89	-20.9
12965.00	V	-	-	-52.92	9.09	-43.83	-18.8

Table 7-28. Radiated Spurious Data (Band 41 – Mid Channel)

OPERATING FREQUENCY: 2680.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Positioner Azimuth [degree]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	3	2	-56.53	9.02	-47.50	-22.5
8040.00	V	-	-	-58.21	9.35	-48.86	-23.9
10720.00	V	-	-	-54.09	9.33	-44.77	-19.8
13400.00	V	-	-	-50.16	8.89	-41.27	-16.3

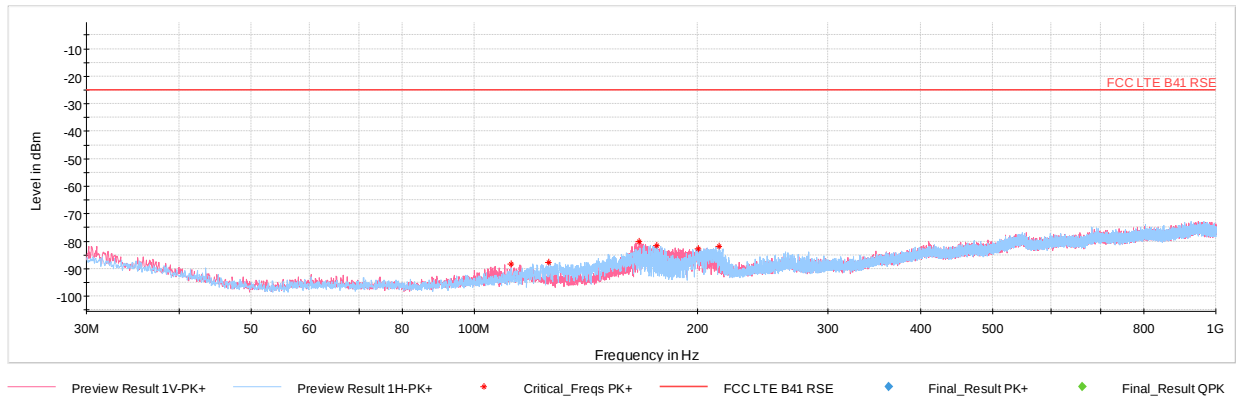
Table 7-29. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270020-03.BCG	Test Dates: 05/01/2020 - 8/12/2020	EUT Type: Watch	Page 186 of 201

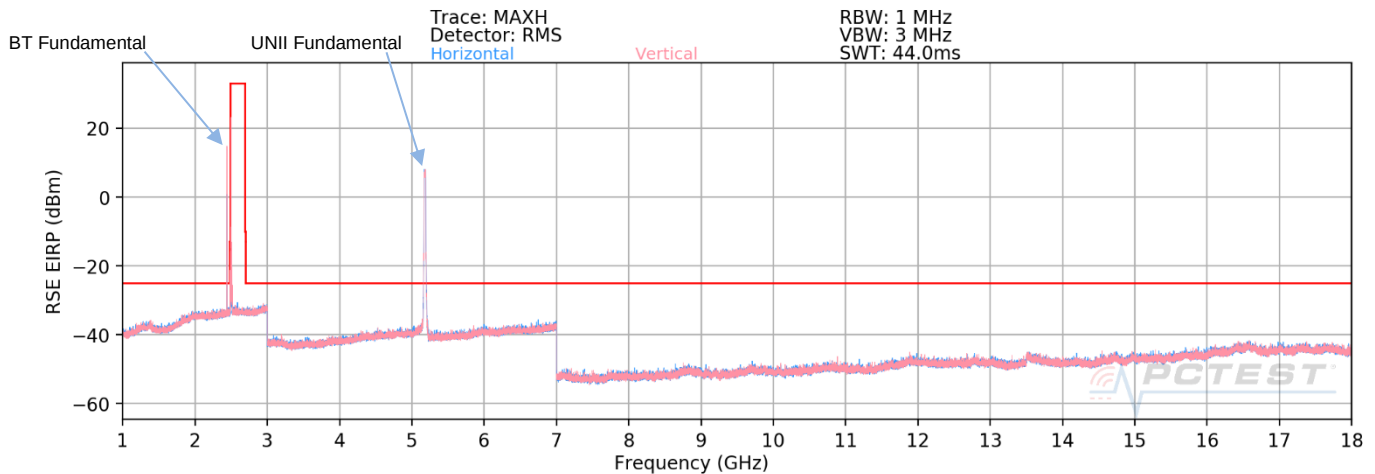
7.7.1 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	Bluetooth	LTE (Band 41)	802.11a/n
Antenna	FCM	FCM	FCM
Channel	39	39750	36
Operating Frequency (MHz)	2441	2506	5180
Mode/Modulation	GFSK ePA	QPSK/1RB/20MHz	802.11n

Table 7-30. Worst Case Simultaneous Transmission Configuration



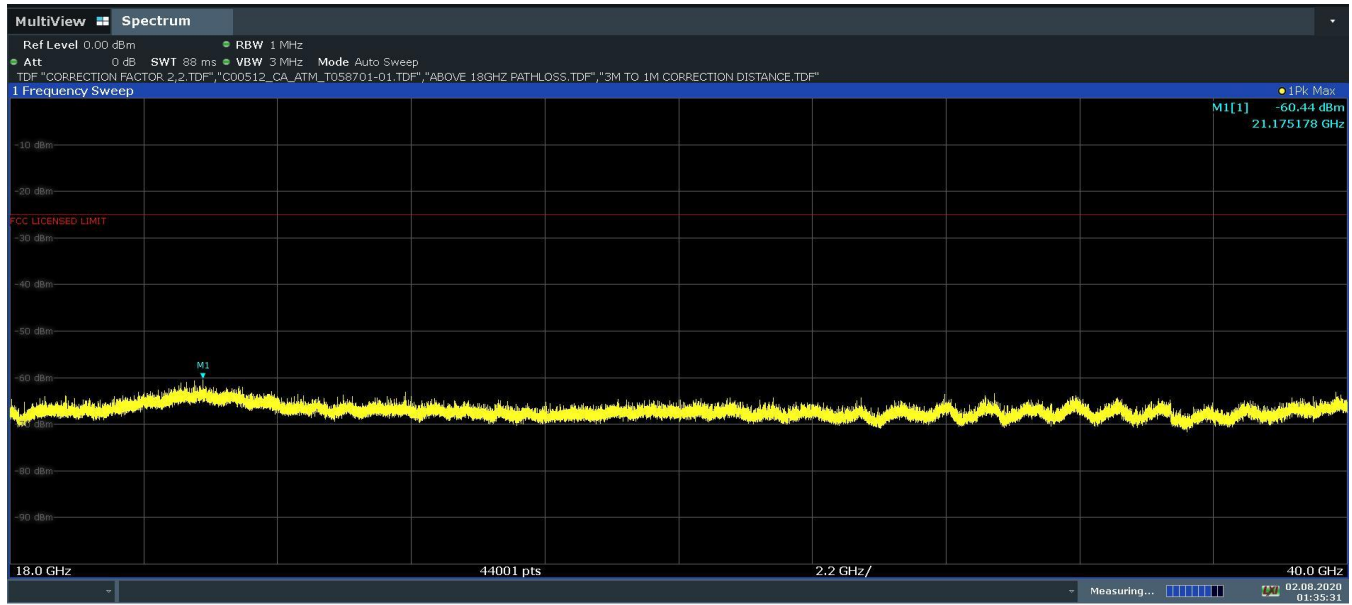
Plot 7-272. Radiated Spurious Emissions – Simultaneous Transmission 30MHz – 1GHz



Plot 7-273. Radiated Spurious Emissions - Simultaneous Transmission 1-18GHz

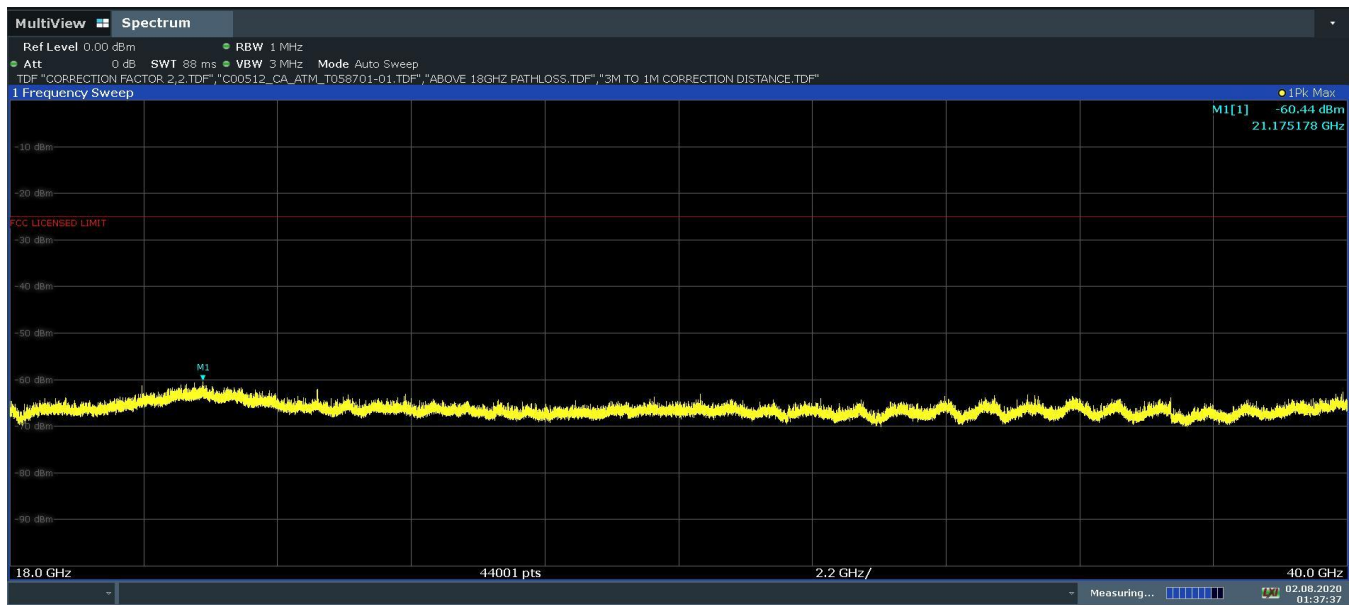
Note: Only the LTE B41 limit was shown in the plot above. The 2 other fundamentals are BT and UNII.

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01:35:32 02.08.2020

Plot 7-274. Radiated Spurious Emissions - Simultaneous Transmission 18GHz-40GHz Pol. H



01:37:38 02.08.2020

Plot 7-275. Radiated Spurious Emissions - Simultaneous Transmission 18GHz-40GHz Pol. V

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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4882.00	Avg	V	-	-	-79.93	16.15	43.22	53.98	-10.75
4882.00	Peak	V	-	-	-67.49	16.15	55.66	73.98	-18.31
7323.00	Avg	H	105	98	-84.05	13.56	36.51	53.98	-17.47
7323.00	Peak	H	105	98	-72.88	13.56	47.68	73.98	-26.30
12205.00	Avg	V	-	-	-85.74	19.77	41.03	53.98	-12.95
12205.00	Peak	V	-	-	-74.70	19.77	52.07	73.98	-21.91
10360.00	Avg	V	-	-	-86.05	17.80	38.75	53.98	-15.23
10360.00	Peak	V	-	-	-74.05	17.80	50.75	73.98	-23.23
15540.00	Avg	V	-	-	-86.34	22.33	42.99	53.98	-10.99
15540.00	Peak	V	-	-	-74.93	22.33	54.40	73.98	-19.58

Table 7-31. BT and UNII Harmonics Emissions Measurements in Simultaneous Transmission Mode

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	Avg	H	101	13	-60.14	10.02	-50.12	-25.0	-25.1
7518.00	Avg	H	269	68	-57.04	12.00	-45.04	-25.0	-20.0
10024.00	Avg	V	237	107	-53.19	13.04	-40.15	-25.0	-15.2
12530.00	Avg	V	-	-	-58.16	13.22	-44.94	-25.0	-19.9
2376.00	Avg	V	121	138	-36.76	5.82	-30.95	-25.0	-5.9

Table 7-32. LTE Harmonics and Intermodulation Emissions Measurements Simultaneous Transmission Mode

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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015/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 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24, Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

TIA-603-E-2016

ANSI C63.26-2015

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. 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.
3. 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

The EUT was connected via an RF cable to a wideband radio communication tester with the EUT placed inside an environmental chamber.



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

None

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Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz
 CHANNEL: 26915
 REFERENCE VOLTAGE: 3.80 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,000	0.3	0.00000004
100 %		- 20	836,500,001	0.5	0.00000006
100 %		- 10	836,500,000	0.3	0.00000003
100 %		0	836,500,000	0.1	0.00000002
100 %		+ 10	836,500,000	0.1	0.00000001
100 %		+ 20	836,500,000	0.1	0.00000001
100 %		+ 30	836,500,000	0.3	0.00000003
100 %		+ 40	836,500,000	0.4	0.00000004
100 %		+ 50	836,500,001	0.5	0.00000006
BATT. ENDPOINT		+ 20	836,500,001	0.9	0.00000010

Table 7-33. Frequency Stability Data (Band 26/5) – 10MHz QPSK – Full RB Configuration

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Band 26/5 Frequency Stability Measurements

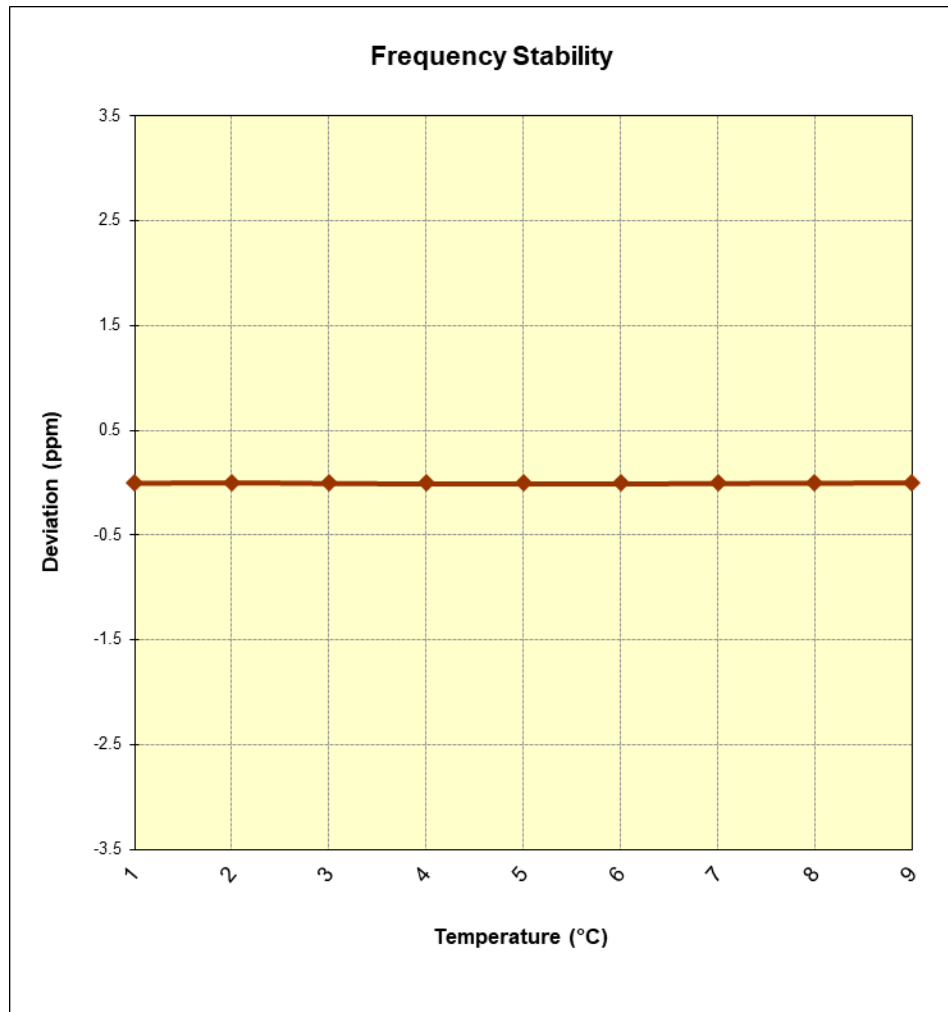


Figure 7-9. Frequency Stability Graph (Band 26/5) – 10MHz QPSK – Full RB Configuration

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 66/4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz
CHANNEL: 132322
REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,745,000,001	1.0	0.00000006
100 %		- 20	1,744,999,999	-0.7	-0.00000004
100 %		- 10	1,744,999,999	-1.1	-0.00000006
100 %		0	1,744,999,999	-0.8	-0.00000005
100 %		+ 10	1,744,999,999	-0.9	-0.00000005
100 %		+ 20	1,744,999,999	-1.1	-0.00000007
100 %		+ 30	1,744,999,999	-0.7	-0.00000004
100 %		+ 40	1,744,999,999	-0.9	-0.00000005
100 %		+ 50	1,744,999,999	-0.8	-0.00000005
BATT. ENDPOINT	3.40	+ 20	1,744,999,999	-0.8	-0.00000005

Table 7-34. Frequency Stability Data (Band 66/4) – 20MHz QPSK – Full RB Configuration

FCC ID: BCG-A2376	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 66/4 Frequency Stability Measurements

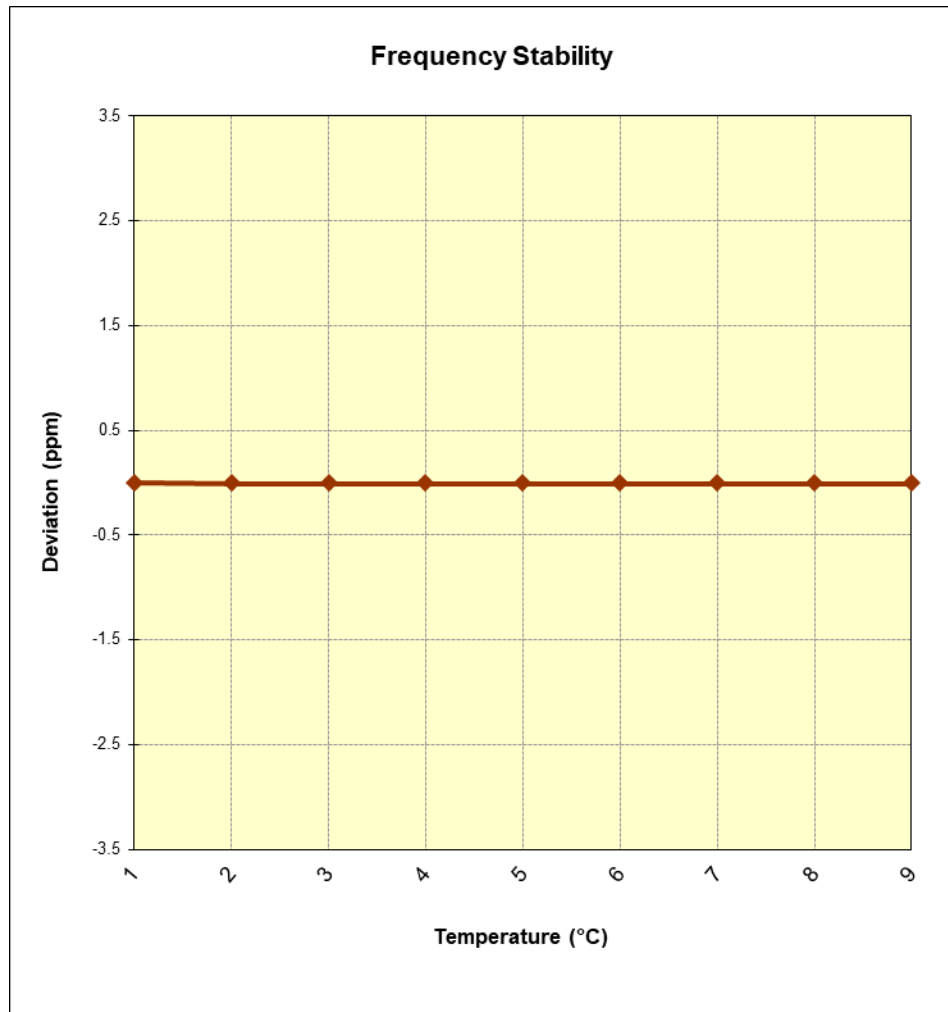


Figure 7-10. Frequency Stability Graph (Band 66/4) – 20MHz QPSK – Full RB Configuration

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25/2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,882,500,000 Hz
CHANNEL: 26365
REFERENCE VOLTAGE: 3.80 VDC
DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,882,499,999	-0.7	-0.00000004
100 %		- 20	1,882,499,999	-1.3	-0.00000007
100 %		- 10	1,882,499,999	-1.4	-0.00000007
100 %		0	1,882,499,999	-0.6	-0.00000003
100 %		+ 10	1,882,499,998	-2.2	-0.00000012
100 %		+ 20	1,882,500,001	1.0	0.00000005
100 %		+ 30	1,882,500,001	0.9	0.00000005
100 %		+ 40	1,882,500,001	0.8	0.00000004
100 %		+ 50	1,882,500,002	1.9	0.00000010
BATT. ENDPOINT	3.40	+ 20	1,882,500,001	1.0	0.00000005

Table 7-35. Frequency Stability Data (Band 25/2) – 20MHz QPSK – Full RB Configuration

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25/2 Frequency Stability Measurements

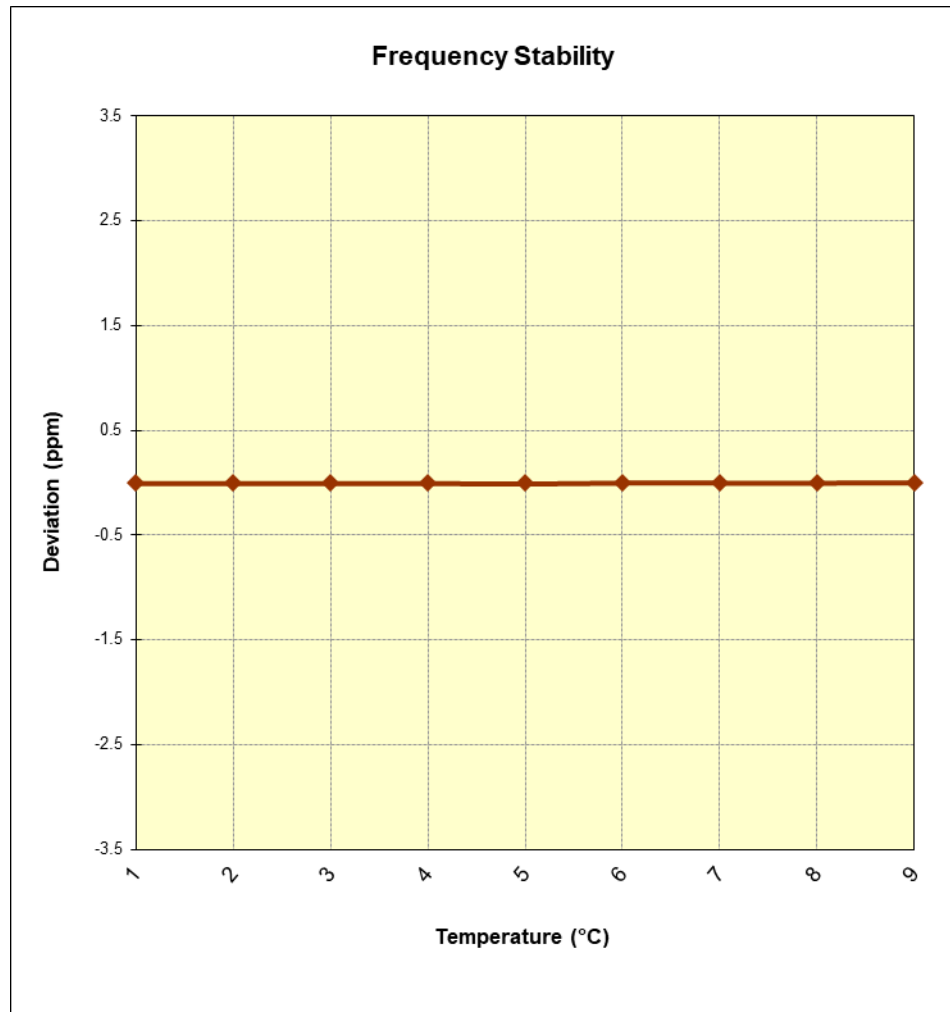


Figure 7-11. Frequency Stability Graph (Band 25/2) – 20MHz QPSK – Full RB Configuration

FCC ID: BCG-A2376	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 7 Frequency Stability Measurements

OPERATING FREQUENCY: 2,535,000,000 Hz
 CHANNEL: 21100
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,535,000,004	4.4	0.00000017
100 %		- 20	2,535,000,003	2.6	0.00000010
100 %		- 10	2,535,000,003	3.2	0.00000012
100 %		0	2,535,000,003	2.7	0.00000011
100 %		+ 10	2,535,000,003	2.7	0.00000010
100 %		+ 20	2,535,000,003	3.3	0.00000013
100 %		+ 30	2,535,000,004	3.9	0.00000015
100 %		+ 40	2,535,000,004	3.6	0.00000014
100 %		+ 50	2,535,000,002	2.5	0.00000010
BATT. ENDPOINT	3.40	+ 20	2,535,000,003	3.0	0.00000012

Table 7-36. Frequency Stability Data (Band 7) – 20MHz QPSK – Full RB Configuration

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 7 Frequency Stability Measurements

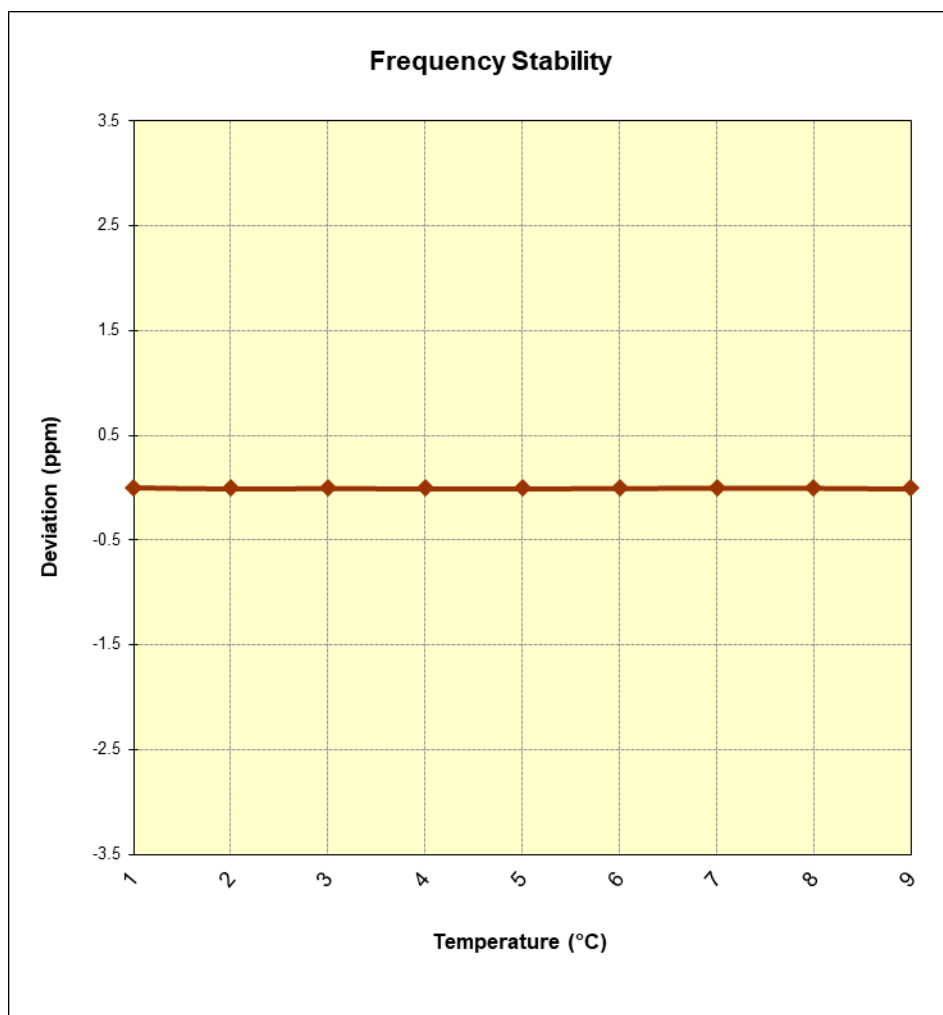


Figure 7-12. Frequency Stability Graph (Band 7) – 20MHz QPSK – Full RB Configuration

FCC ID: BCG-A2376	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

OPERATING FREQUENCY: 2,593,000,000 Hz
CHANNEL: 40620
REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,593,000,008	8.0	0.0000003
100 %		- 20	2,593,000,010	9.5	0.0000004
100 %		- 10	2,593,000,009	8.6	0.0000003
100 %		0	2,593,000,009	9.4	0.0000004
100 %		+ 10	2,593,000,010	10.3	0.0000004
100 %		+ 20	2,593,000,009	9.4	0.0000004
100 %		+ 30	2,593,000,012	11.6	0.0000004
100 %		+ 40	2,593,000,008	7.9	0.0000003
100 %		+ 50	2,593,000,007	7.0	0.0000003
BATT. ENDPOINT	3.40	+ 20	2,593,000,009	9.0	0.0000003

Table 7-37. Frequency Stability Data (Band 41) – 20MHz QPSK – Full RB Configuration

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

FCC ID: BCG-A2376	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

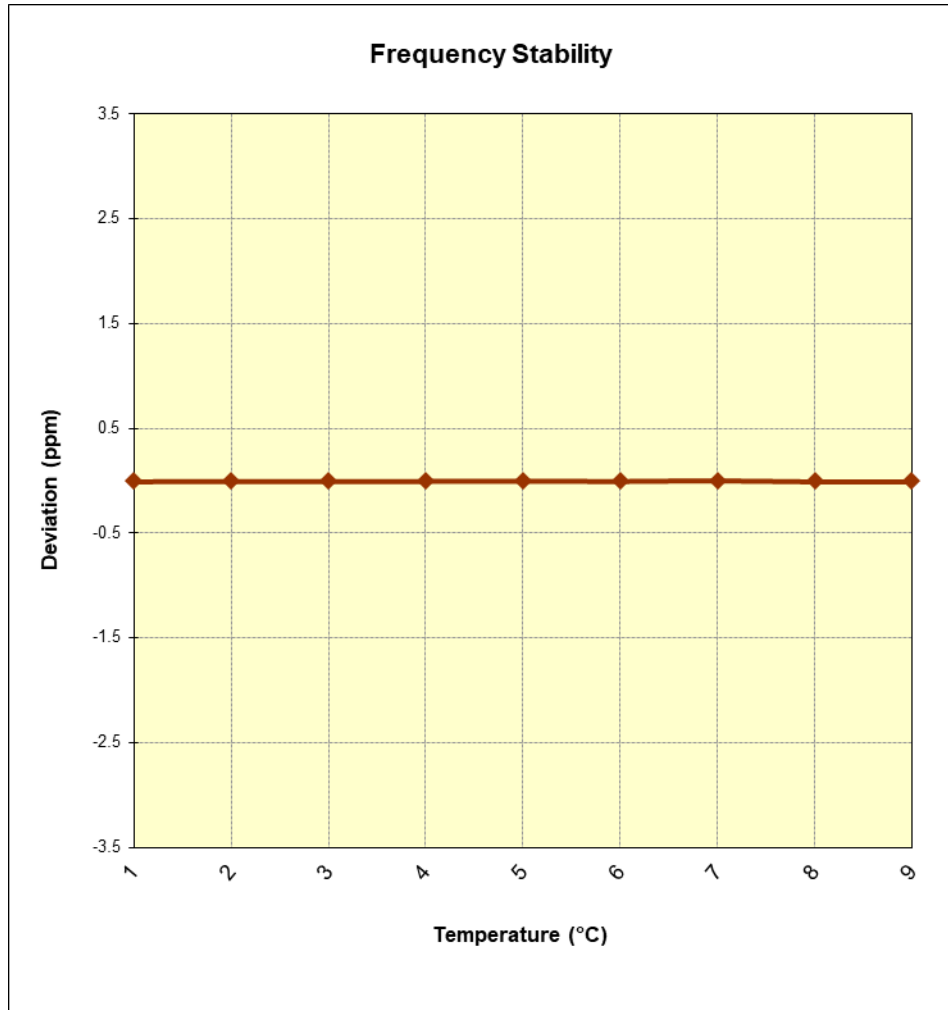


Figure 7-13. Frequency Stability Graph (Band 41) – 20MHz QPSK – Full RB Configuration

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2376** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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