

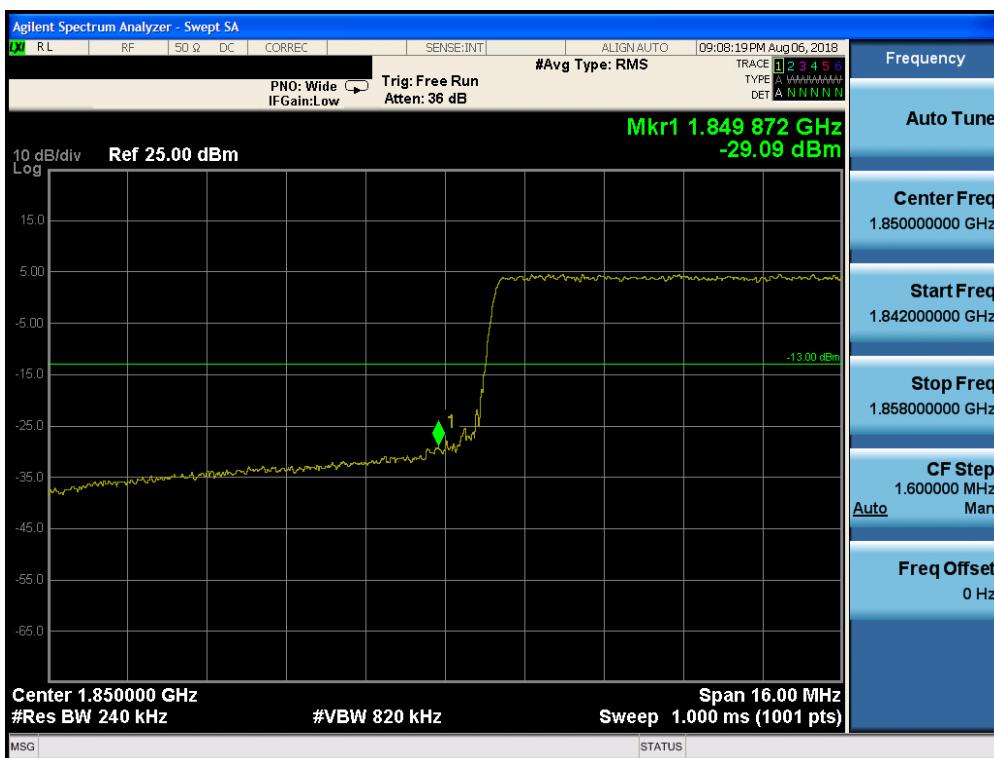


Plot 7-240. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

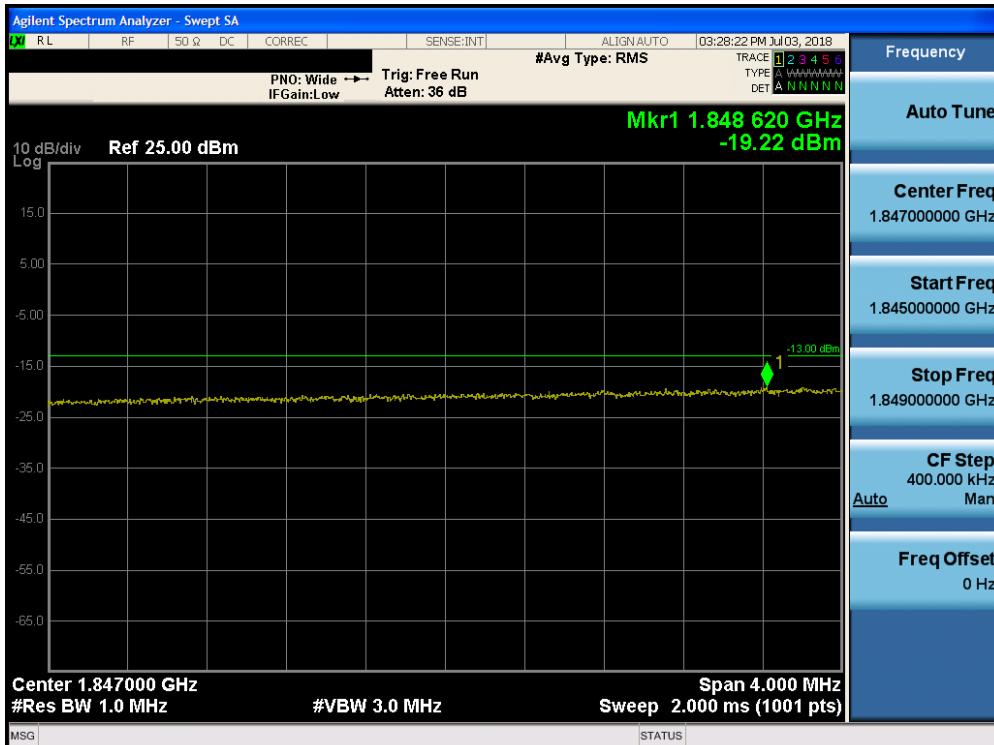


Plot 7-241. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 145 of 228



Plot 7-242. Lower Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-243. Lower Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 146 of 228



Plot 7-244. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



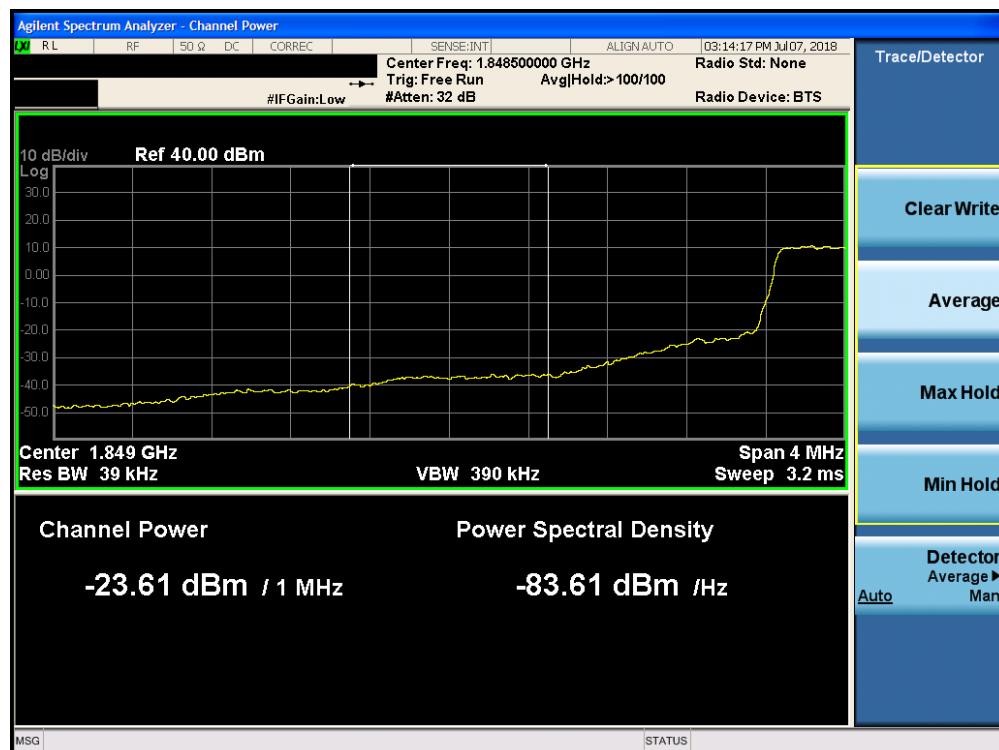
Plot 7-245. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 147 of 228

Band 2



Plot 7-246. Lower Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

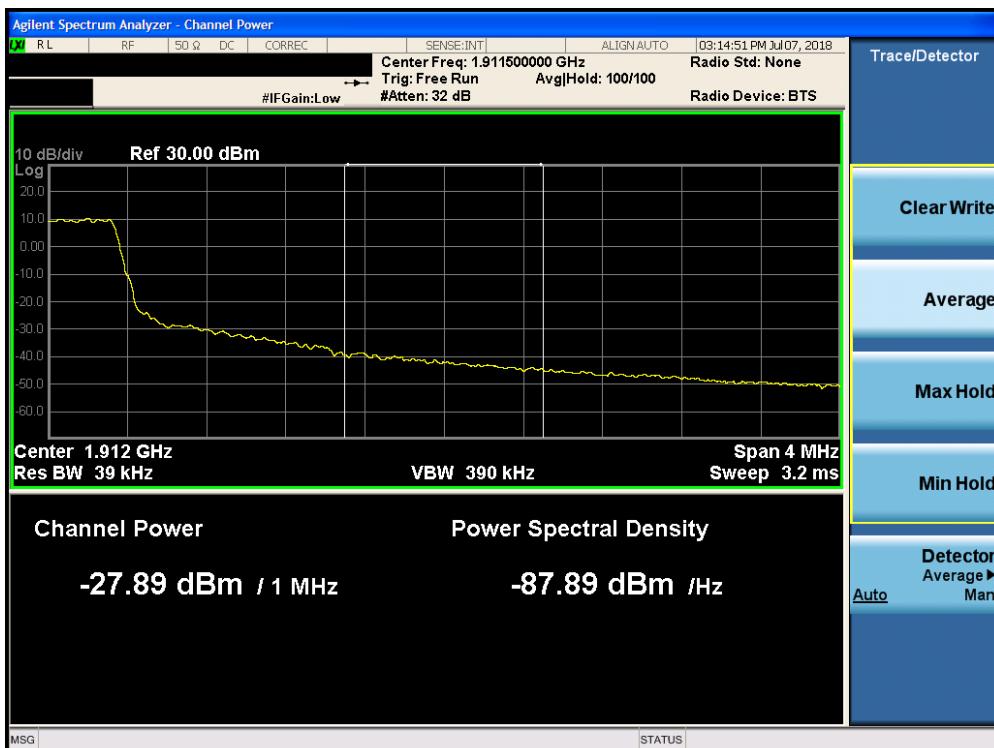


Plot 7-247. Lower Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 148 of 228

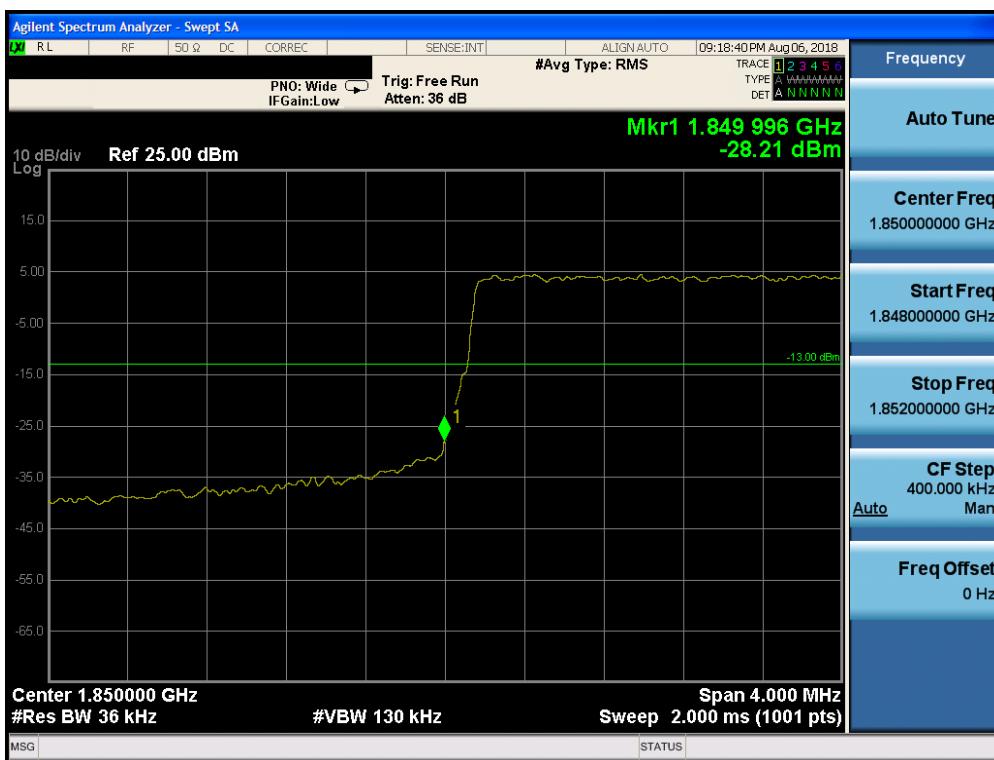


Plot 7-248. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

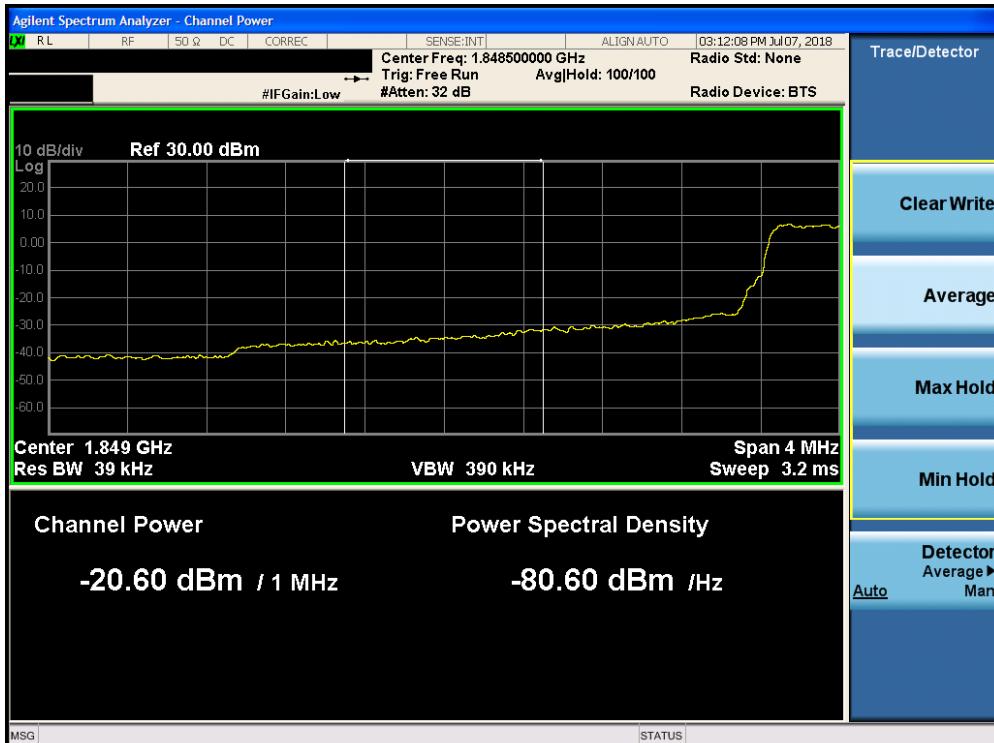


Plot 7-249. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 149 of 228



Plot 7-250. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

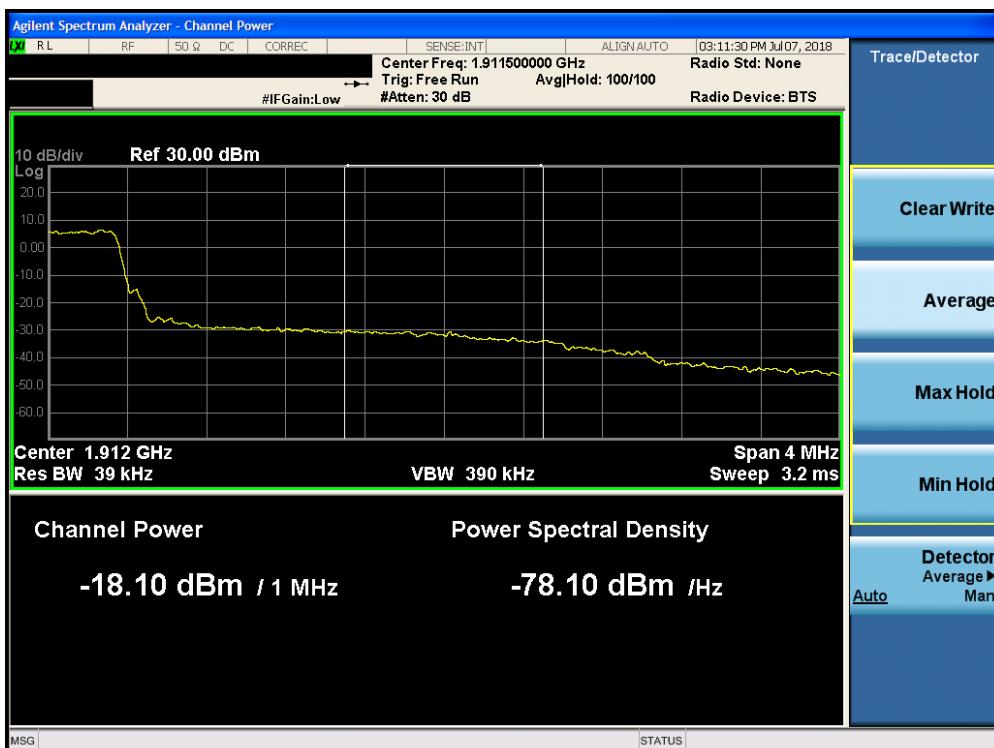


Plot 7-251. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 150 of 228

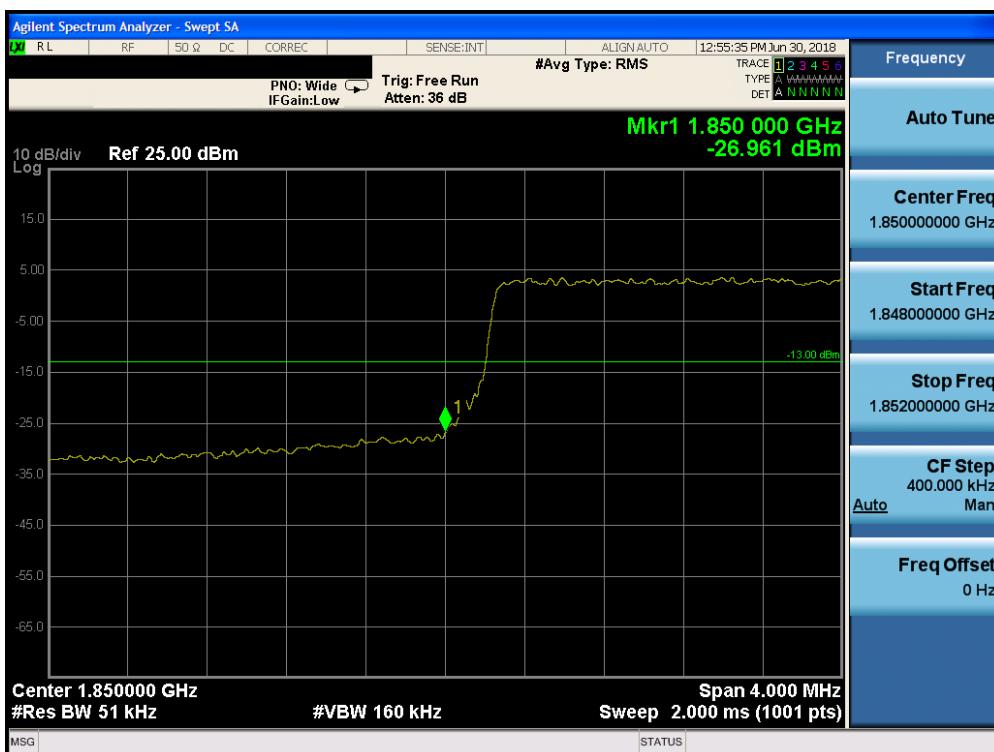


Plot 7-252. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

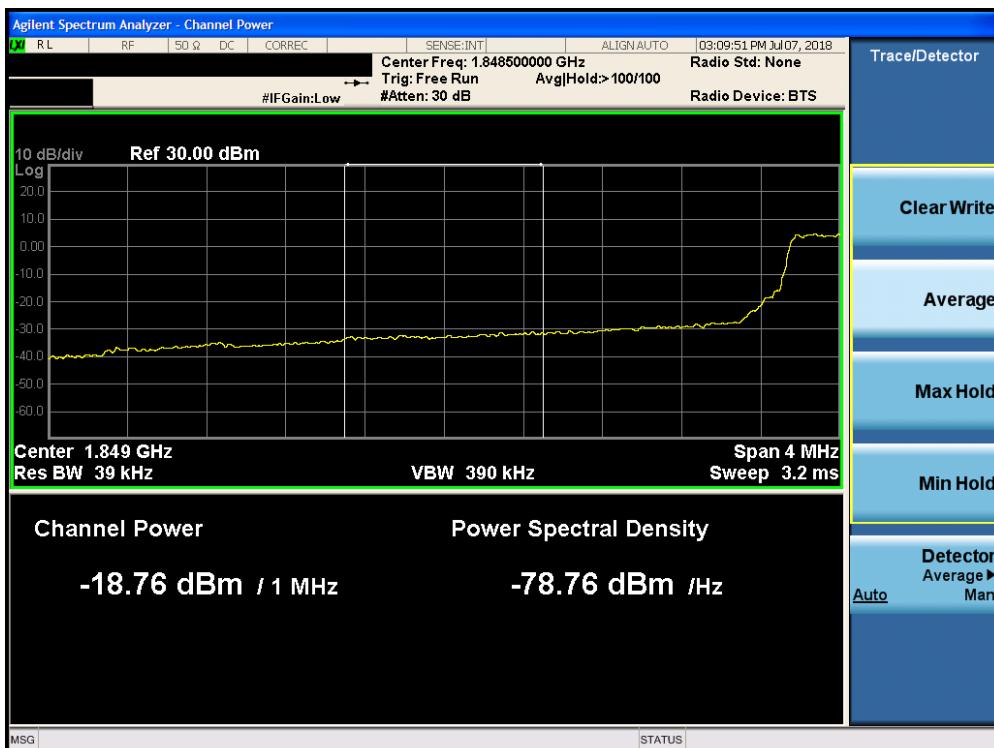


Plot 7-253. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 151 of 228

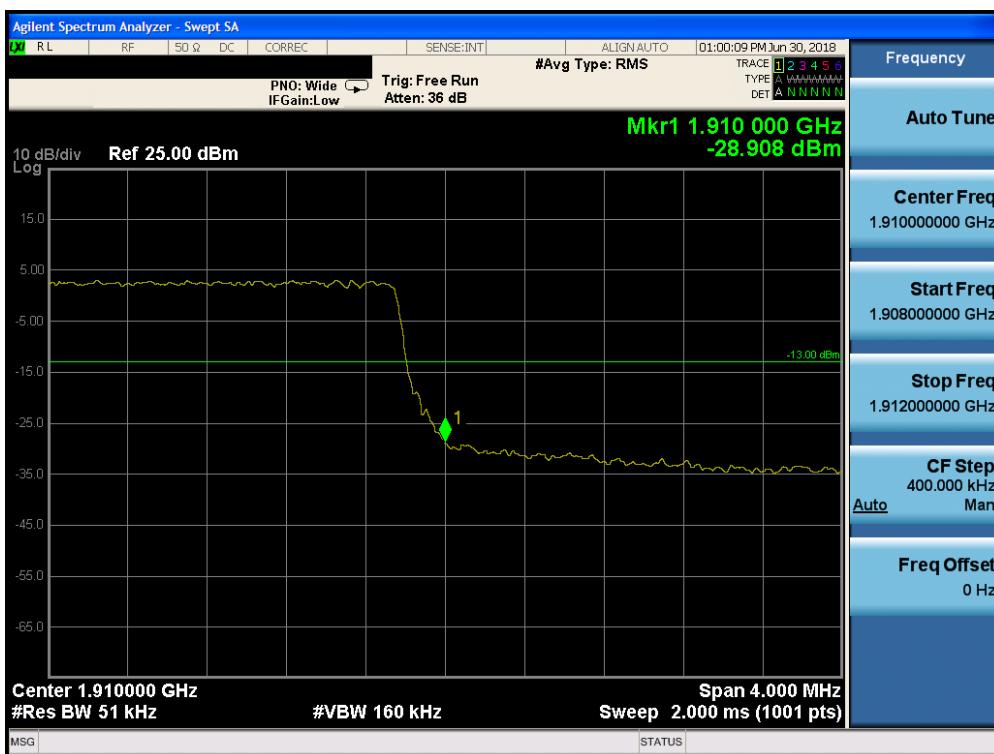


Plot 7-254. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

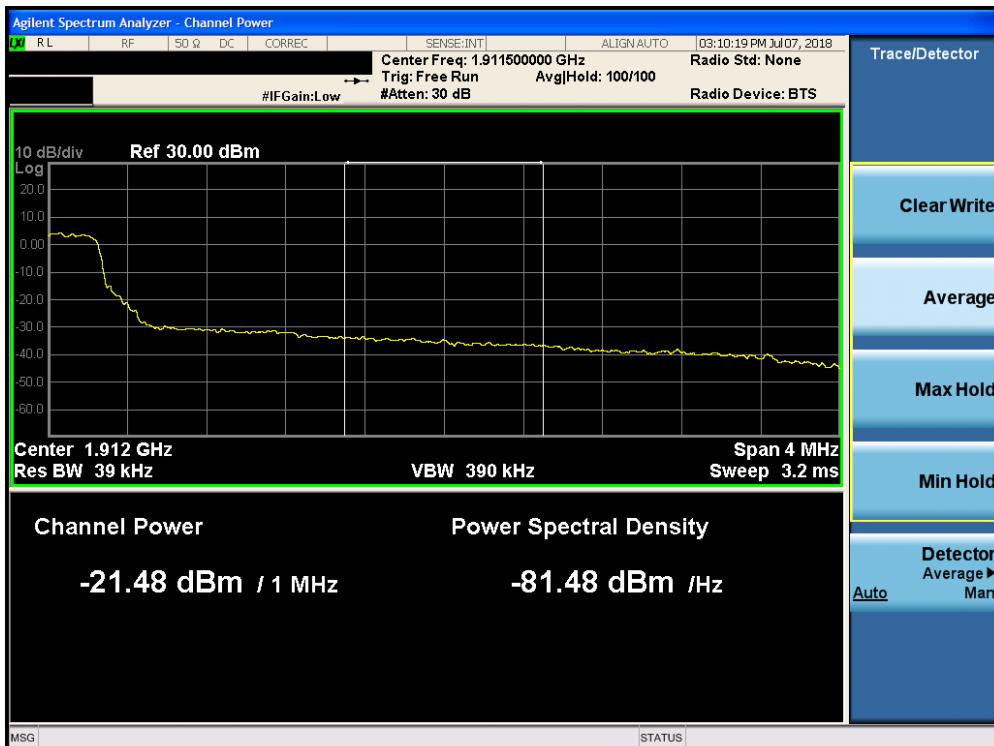


Plot 7-255. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager	
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 152 of 228



Plot 7-256. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-257. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 153 of 228



Plot 7-258. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-259. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 154 of 228

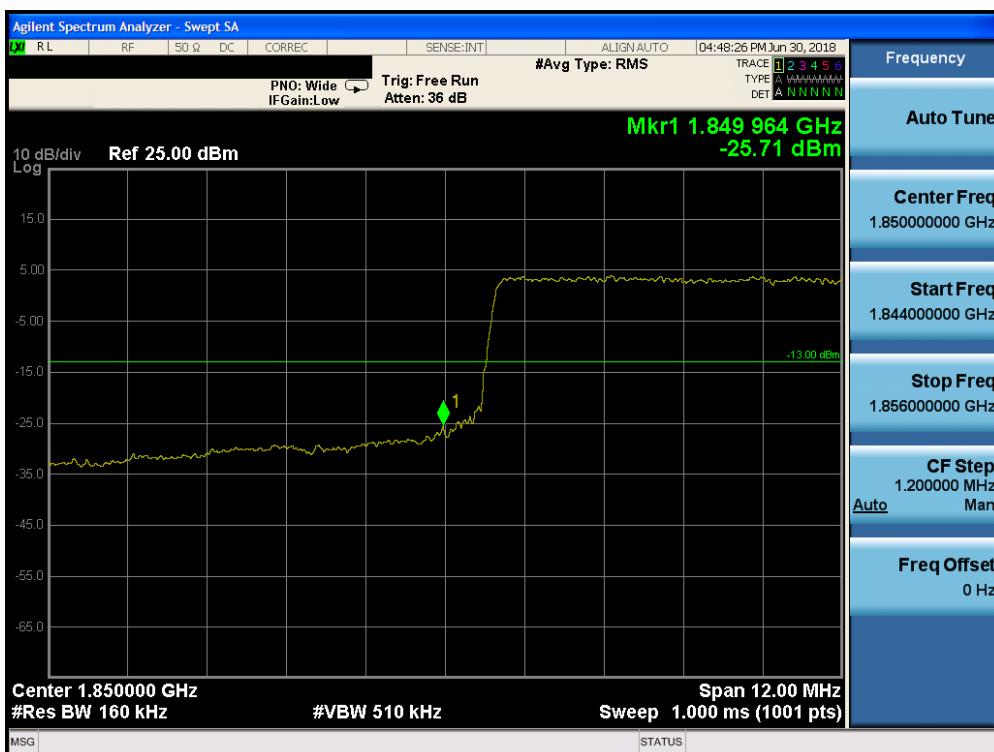


Plot 7-260. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

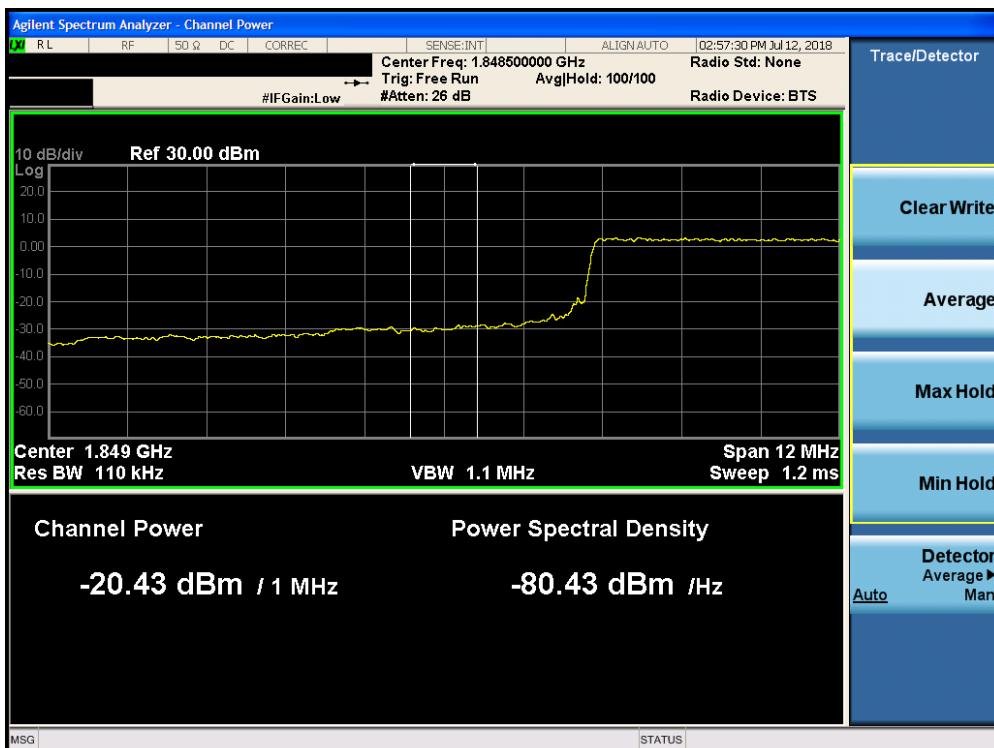


Plot 7-261. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 155 of 228



Plot 7-262. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-263. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 156 of 228



Plot 7-264. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

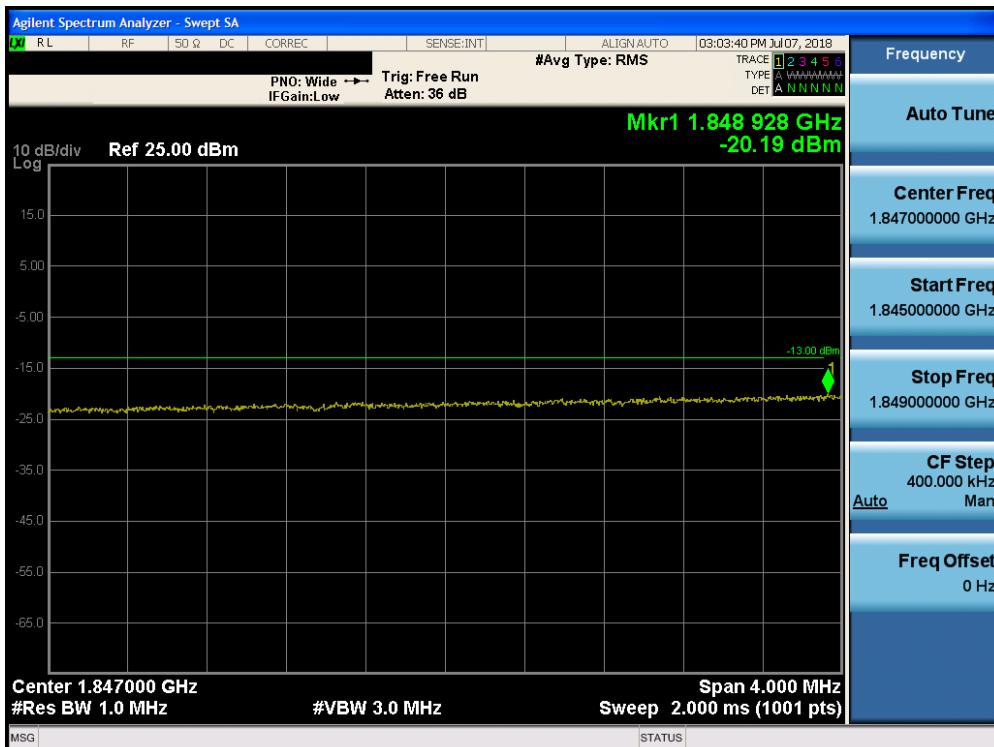


Plot 7-265. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 157 of 228



Plot 7-266. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

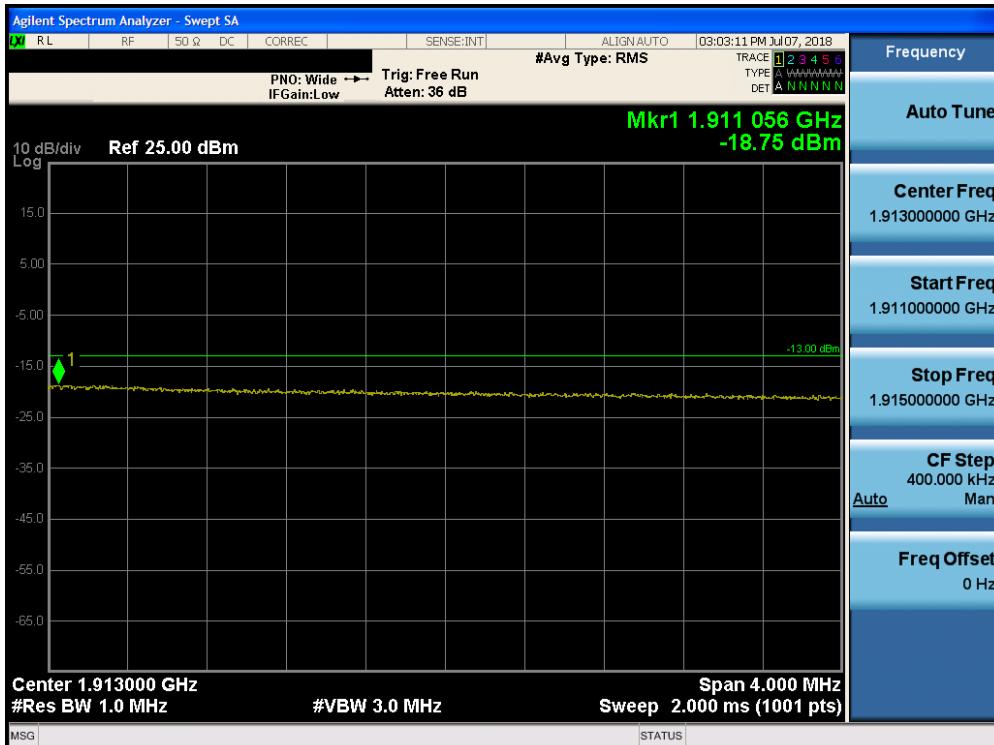


Plot 7-267. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 158 of 228



Plot 7-268. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-269. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 159 of 228

Band 41



Plot 7-270. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

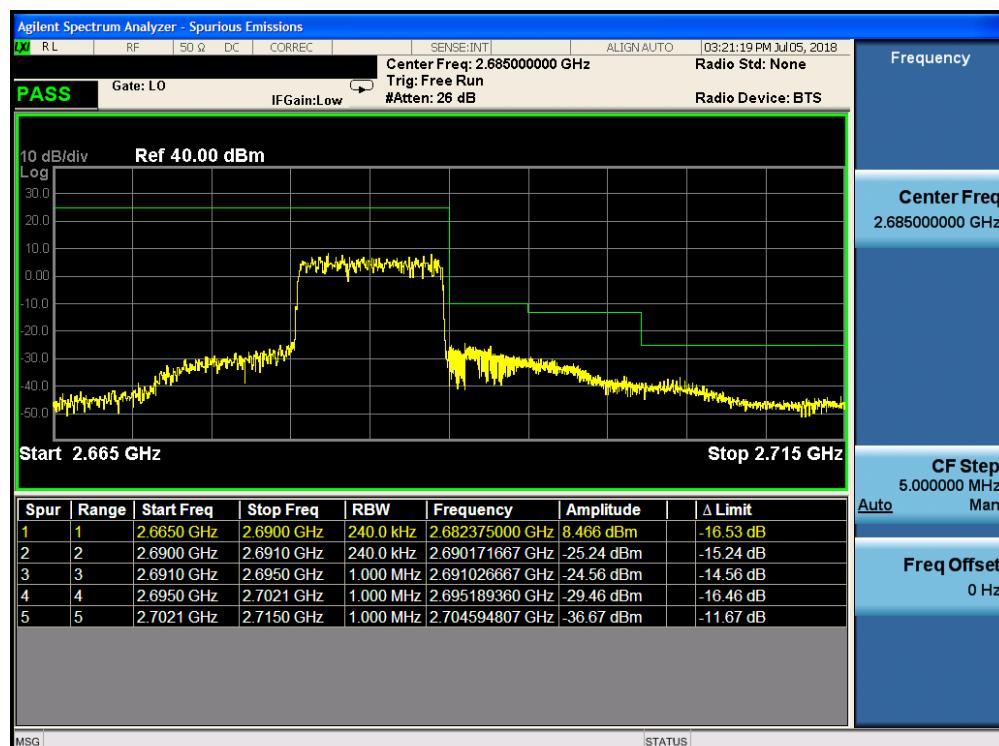


Plot 7-271. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch		Page 160 of 228



Plot 7-272. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-273. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 161 of 228



Plot 7-274. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

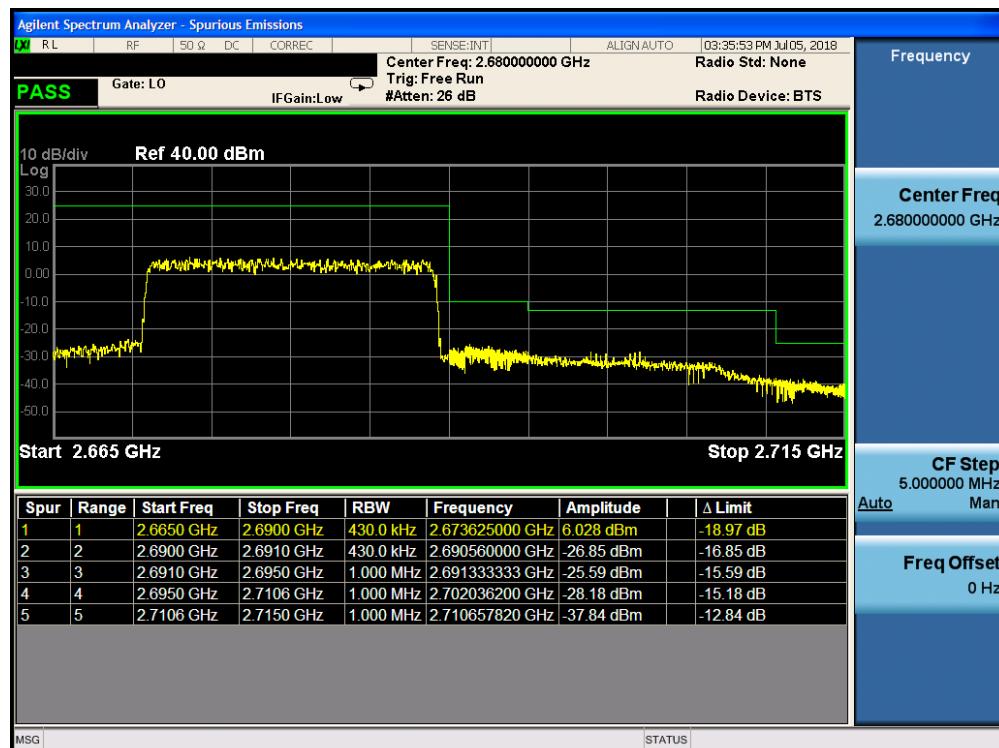


Plot 7-275. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 162 of 228



Plot 7-276. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-277. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 163 of 228

7.5 Peak-Average Ratio

Test Overview

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

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

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

Test Setup

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

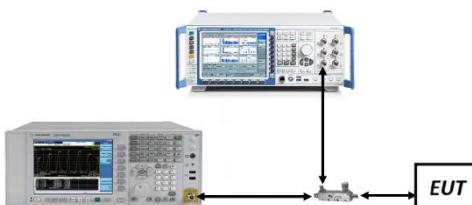


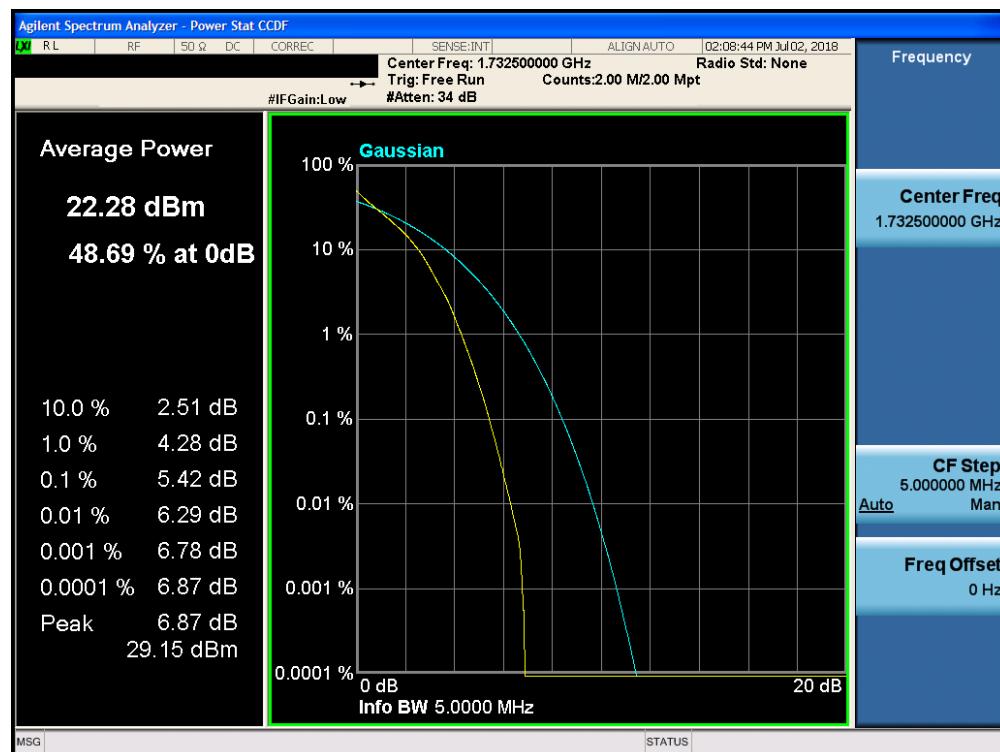
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

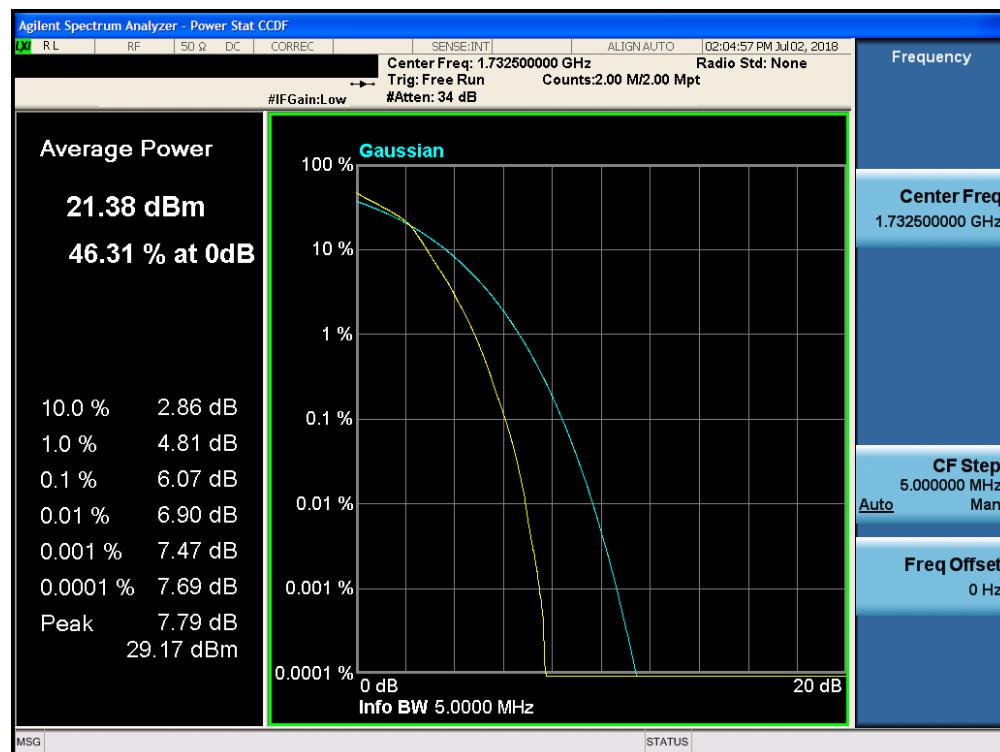
None.

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 164 of 228

Band 4



Plot 7-278. PAR Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-279. PAR Plot (Band 4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 165 of 228



Plot 7-280. PAR Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

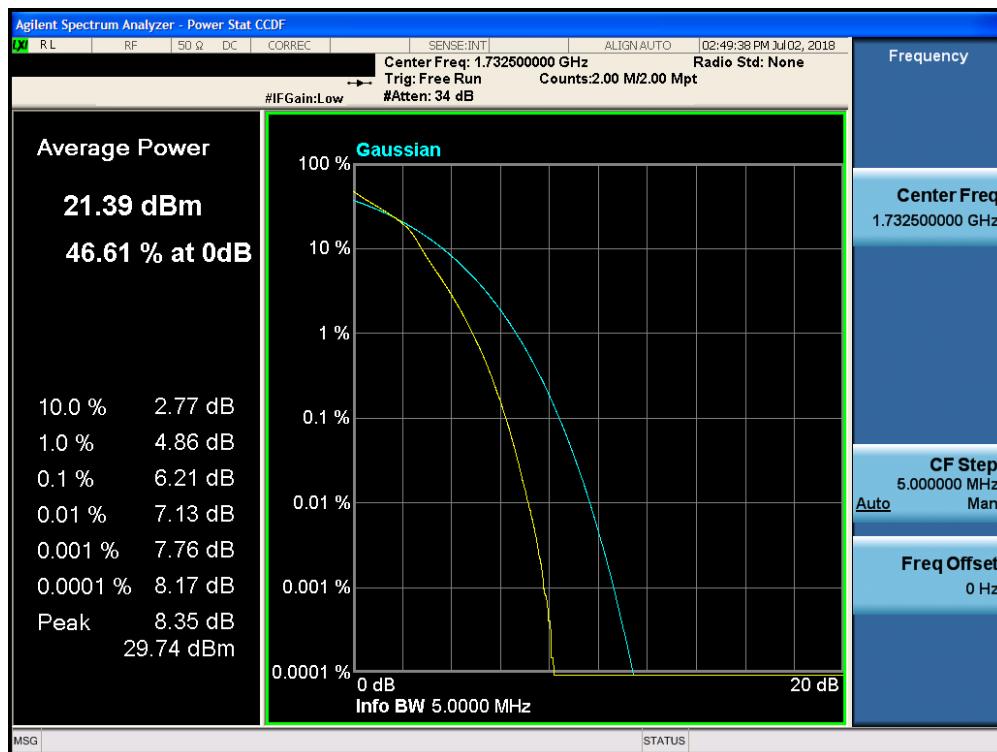


Plot 7-281. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 166 of 228



Plot 7-282. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

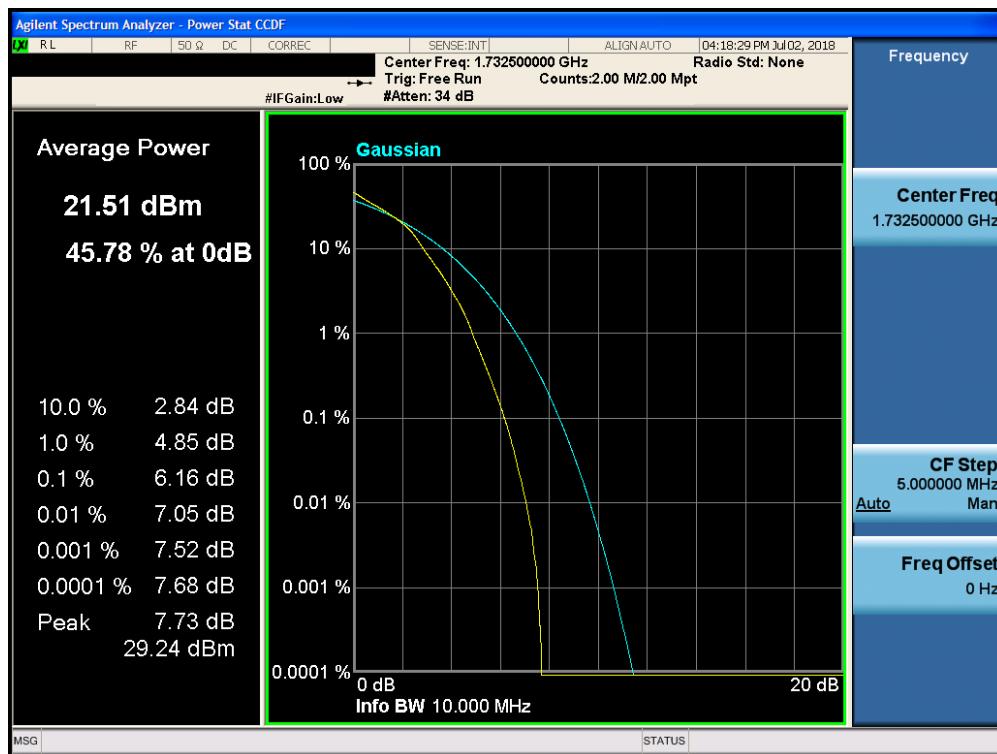


Plot 7-283. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 167 of 228



Plot 7-284. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

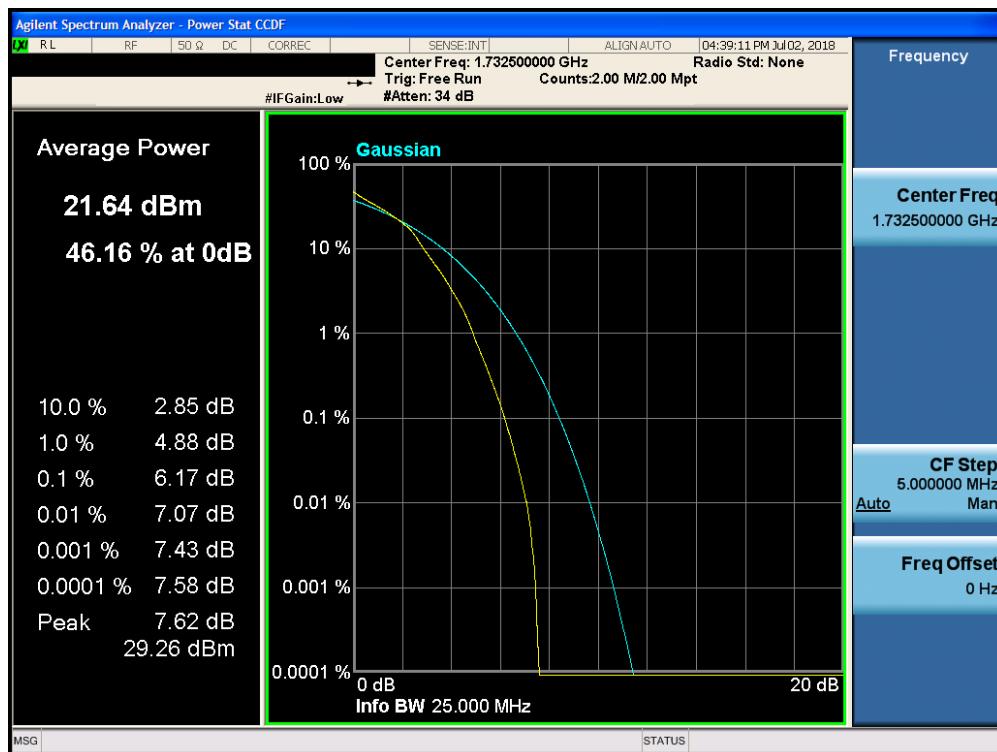


Plot 7-285. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 168 of 228

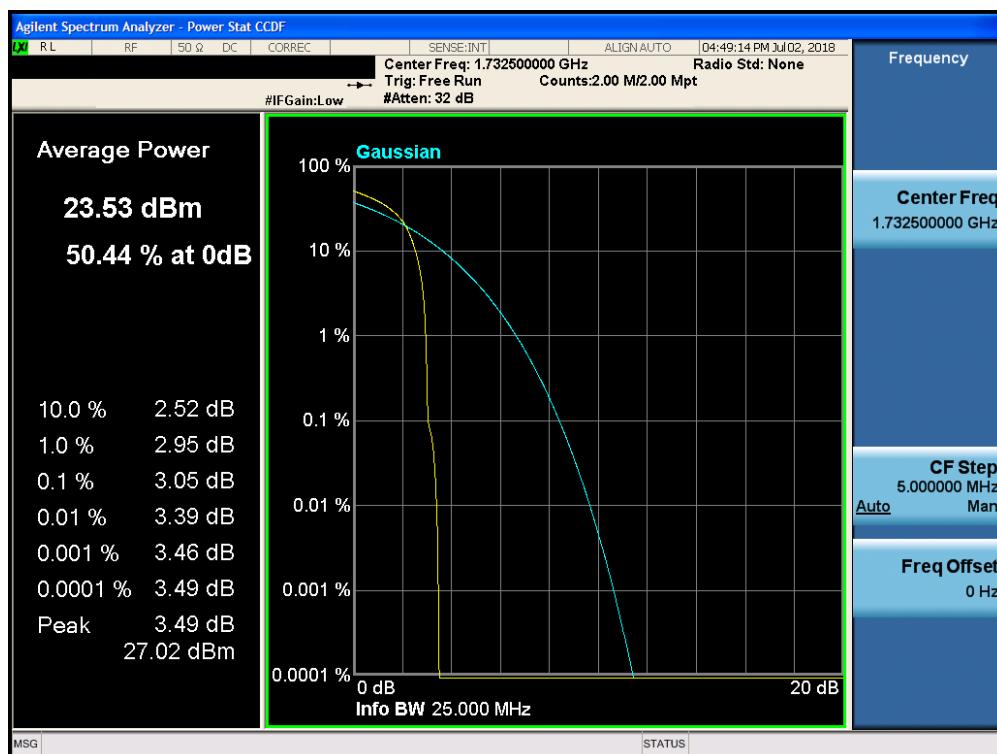


Plot 7-286. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

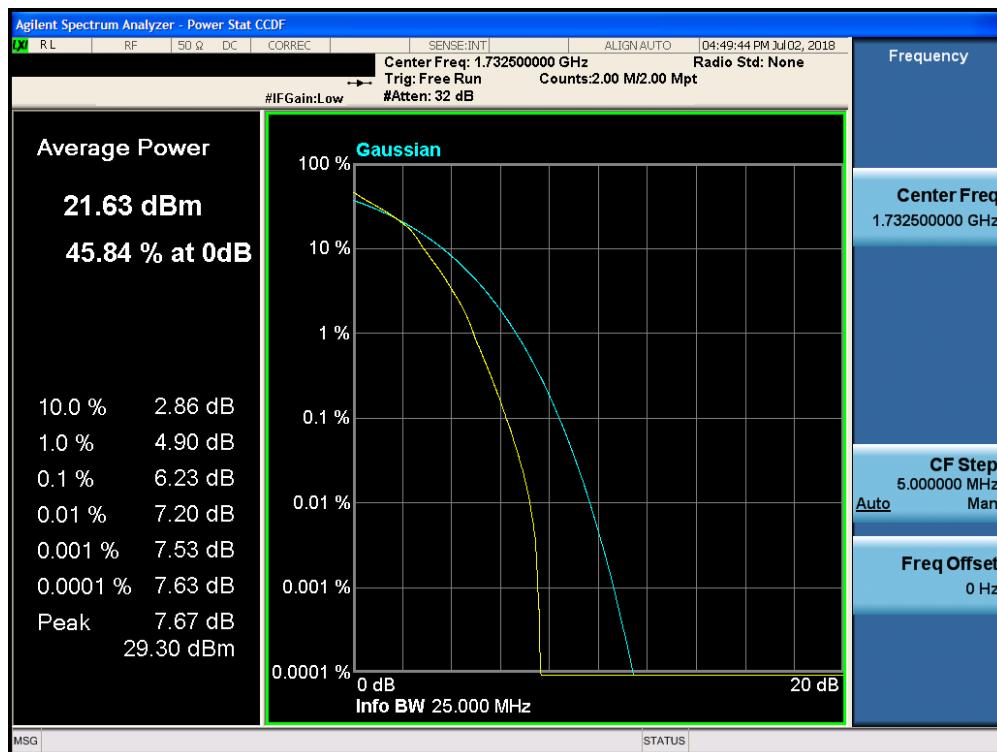


Plot 7-287. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 169 of 228



Plot 7-288. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-289. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 170 of 228	

Band 25



Plot 7-290. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-291. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 171 of 228



Plot 7-292. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

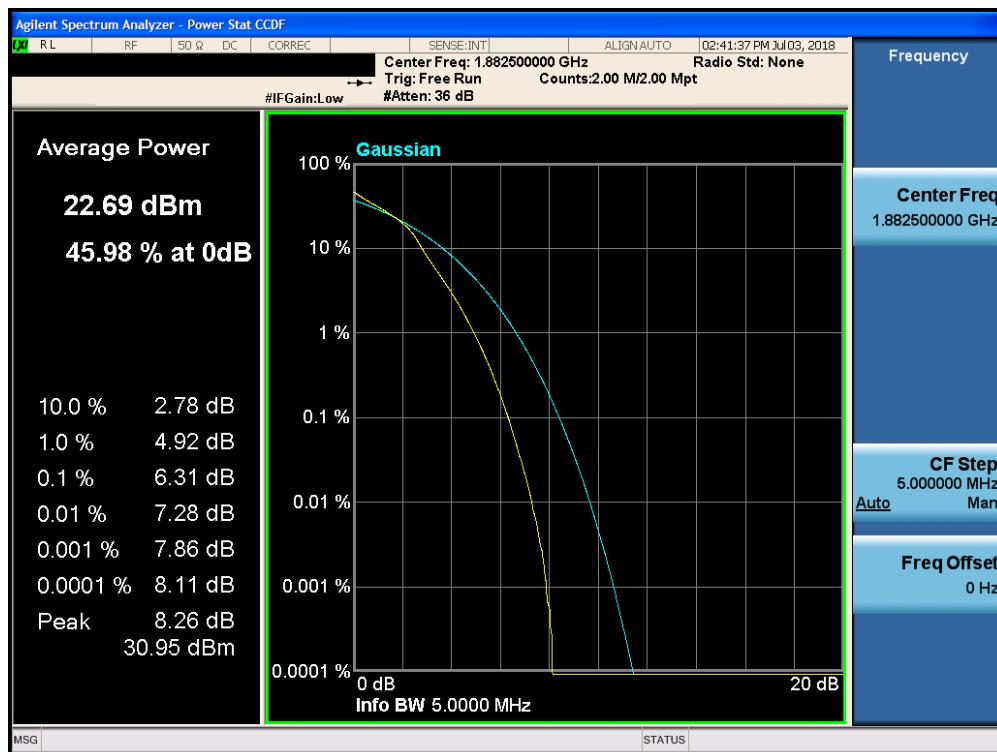


Plot 7-293. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 172 of 228



Plot 7-294. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

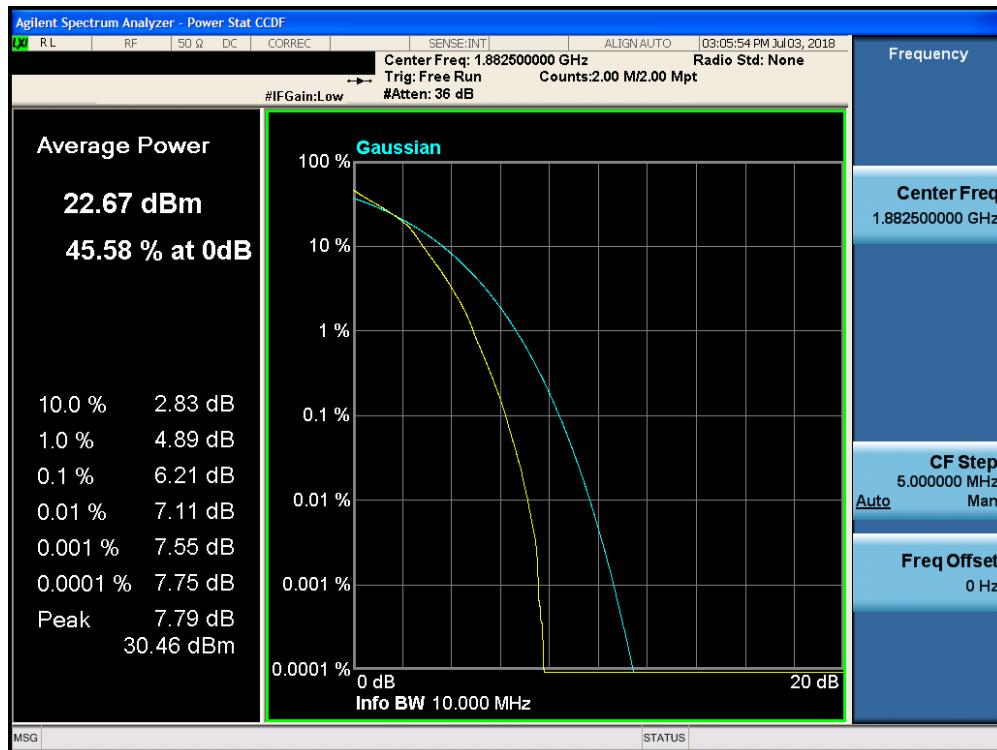


Plot 7-295. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 173 of 228



Plot 7-296. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

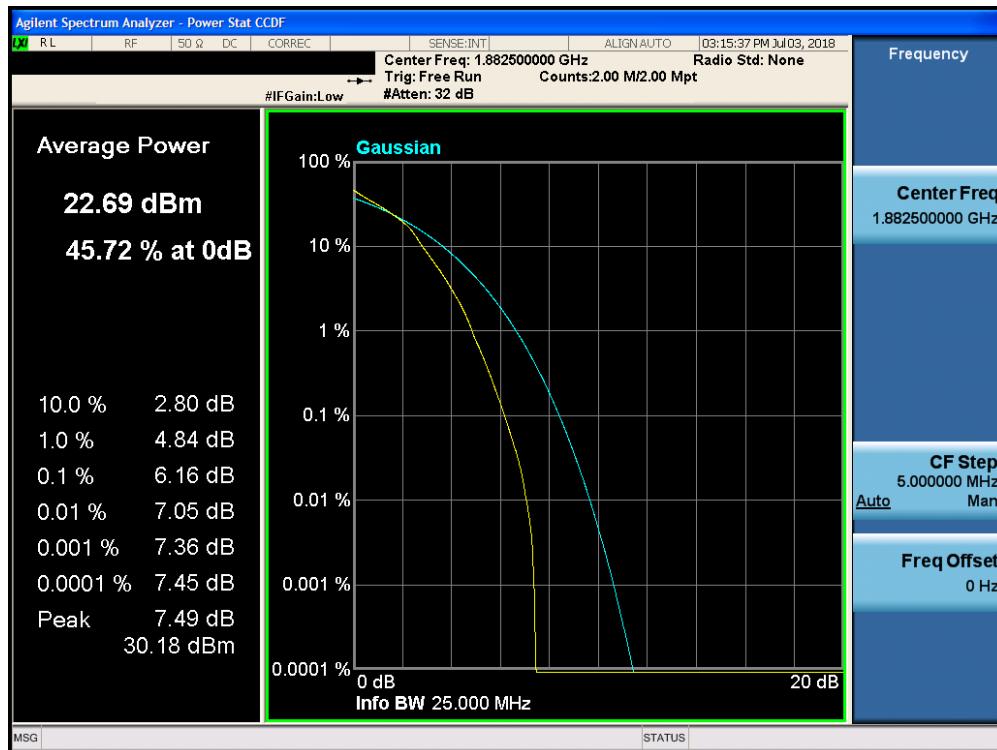


Plot 7-297. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 174 of 228



Plot 7-298. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-299. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 175 of 228



Plot 7-300. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-301. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 176 of 228	

Band 2



Plot 7-302. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

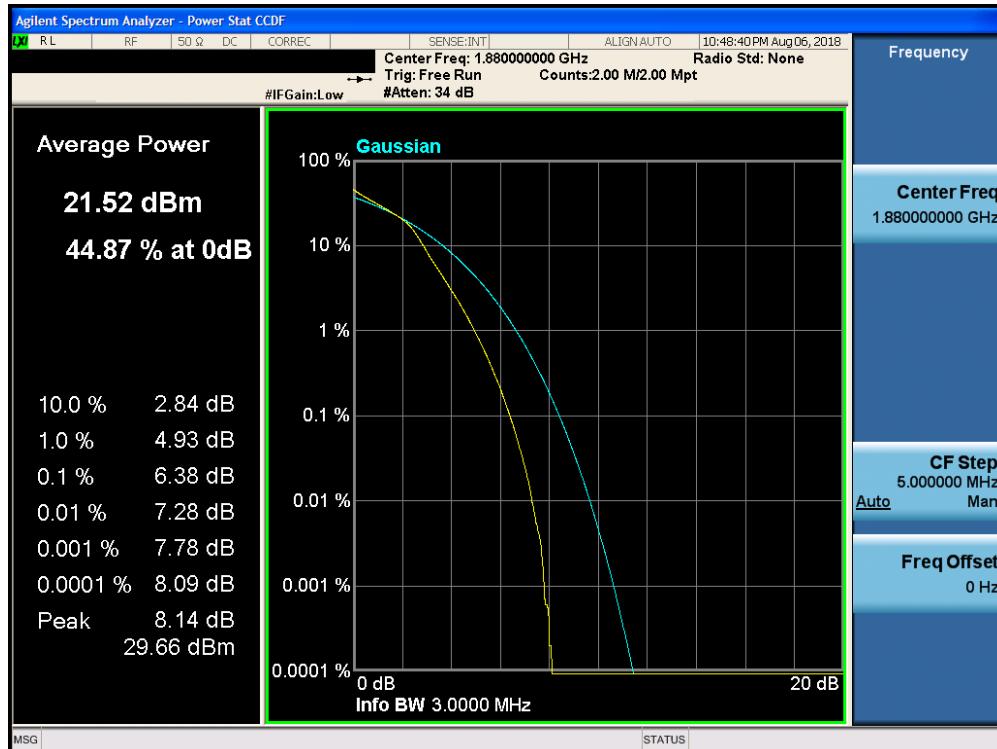


Plot 7-303. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 177 of 228



Plot 7-304. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

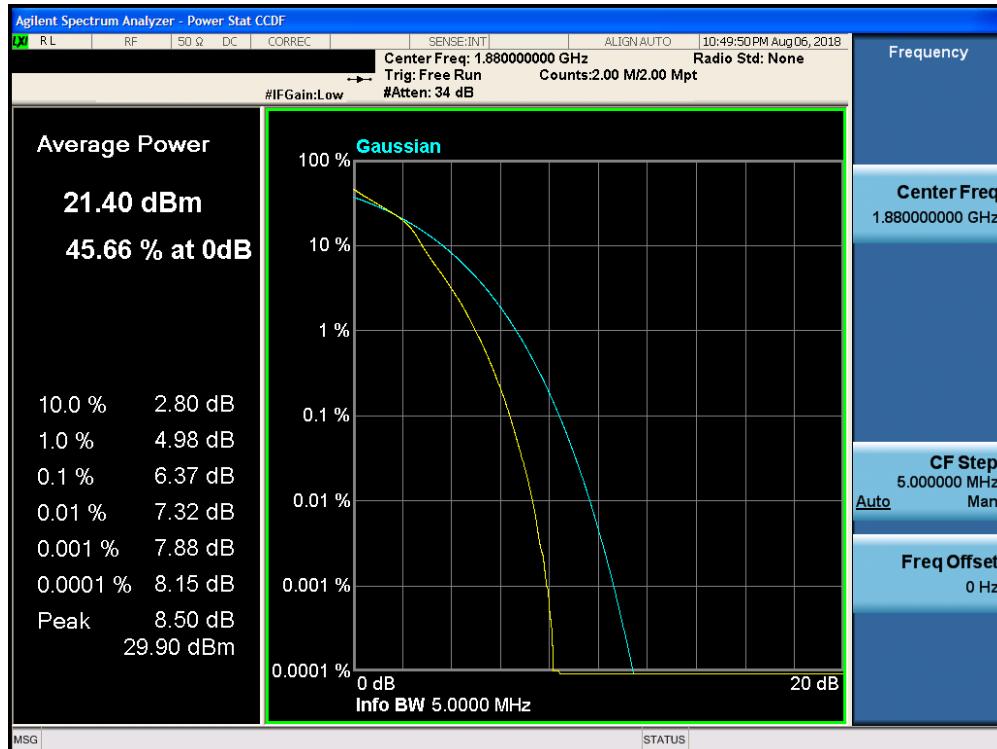


Plot 7-305. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 178 of 228



Plot 7-306. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-307. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 179 of 228



Plot 7-308. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-309. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 180 of 228



Plot 7-310. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

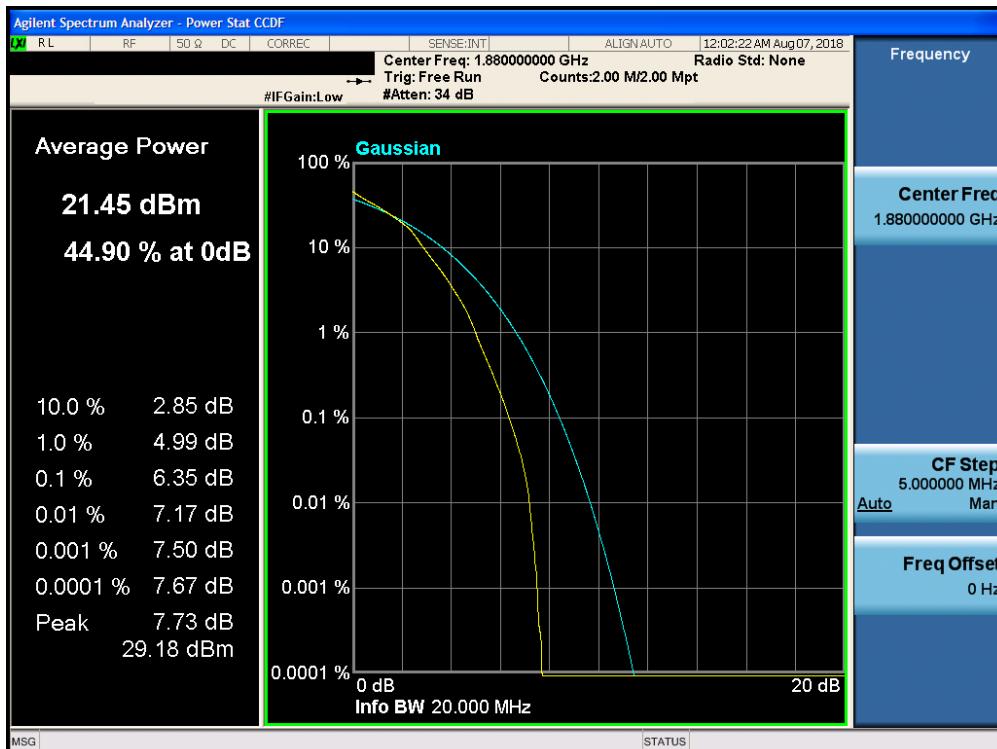


Plot 7-311. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A1976	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-312. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-313. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)

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7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are determined from the equations below.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – Section 2.2.17

Test Settings

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

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

Where:

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

PMes = 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

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Test Notes

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

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	3 / 0	24.68	-26.60	-4.07	0.000392	34.77	-38.84
707.50	1.4	QPSK	1 / 2	24.81	-26.60	-3.94	0.000404	34.77	-38.71
715.30	1.4	QPSK	1 / 5	24.72	-26.60	-4.03	0.000395	34.77	-38.80
699.70	1.4	16-QAM	1 / 0	24.06	-26.60	-4.69	0.000340	34.77	-39.46
700.50	3	QPSK	1 / 0	24.71	-26.60	-4.04	0.000394	34.77	-38.81
707.50	3	QPSK	1 / 7	24.73	-26.60	-4.02	0.000396	34.77	-38.79
714.50	3	QPSK	1 / 0	24.61	-26.60	-4.14	0.000385	34.77	-38.91
707.50	3	16-QAM	1 / 7	24.05	-26.60	-4.70	0.000339	34.77	-39.47
701.50	5	QPSK	1 / 0	24.81	-26.60	-3.94	0.000404	34.77	-38.71
707.50	5	QPSK	1 / 12	24.70	-26.60	-4.05	0.000394	34.77	-38.82
713.50	5	QPSK	1 / 0	24.81	-26.60	-3.94	0.000404	34.77	-38.71
707.50	5	16-QAM	1 / 24	24.10	-26.60	-4.65	0.000343	34.77	-39.42
704.00	10	QPSK	1 / 49	24.92	-26.60	-3.83	0.000414	34.77	-38.60
707.50	10	QPSK	1 / 25	24.80	-26.60	-3.95	0.000403	34.77	-38.72
711.00	10	QPSK	1 / 0	24.85	-26.60	-3.90	0.000407	34.77	-38.67
704.00	10	16-QAM	1 / 26	24.27	-26.60	-4.48	0.000356	34.77	-39.25

Table 7-3. ERP Data (Band 12)

FCC ID: BCG-A1976	 PCTEST <small>ENGINEERING LABORATORY, INC.</small>	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 [Watts]	ERP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 24	24.83	-26.60	-3.92	0.000406	34.77	-38.69
710.00	5	QPSK	1 / 12	24.96	-26.60	-3.79	0.000418	34.77	-38.56
713.50	5	QPSK	1 / 0	25.00	-26.60	-3.75	0.000422	34.77	-38.52
710.00	5	16-QAM	1 / 12	24.07	-26.60	-4.68	0.000340	34.77	-39.45
709.00	10	QPSK	1 / 25	24.87	-26.60	-3.88	0.000409	34.77	-38.65
710.00	10	QPSK	1 / 0	25.00	-26.60	-3.75	0.000422	34.77	-38.52
711.00	10	QPSK	1 / 0	24.97	-26.60	-3.78	0.000419	34.77	-38.55
710.00	10	16-QAM	1 / 0	24.05	-26.60	-4.70	0.000339	34.77	-39.47

Table 7-4. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 24	24.75	-25.40	-2.80	0.000525	34.77	-37.57
782.00	5	QPSK	1 / 24	25.00	-25.40	-2.55	0.000556	34.77	-37.32
784.50	5	QPSK	1 / 24	24.70	-25.40	-2.85	0.000519	34.77	-37.62
782.00	5	16-QAM	1 / 0	24.15	-25.40	-3.40	0.000457	34.77	-38.17
782.00	10	QPSK	1 / 49	25.00	-25.40	-2.55	0.000556	34.77	-37.32
782.00	10	16-QAM	1 / 26	24.13	-25.40	-3.42	0.000455	34.77	-38.19

Table 7-5. ERP Data (Band 13)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch				

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.75	-26.70	-4.10	0.000389	38.45	-42.55
836.50	1.4	QPSK	1 / 0	24.78	-26.70	-4.07	0.000392	38.45	-42.52
848.30	1.4	QPSK	1 / 0	24.65	-26.70	-4.20	0.000380	38.45	-42.65
824.70	1.4	16-QAM	1 / 5	24.26	-26.70	-4.59	0.000348	38.45	-43.04
825.50	3	QPSK	1 / 0	24.85	-26.70	-4.00	0.000398	38.45	-42.45
836.50	3	QPSK	1 / 0	24.79	-26.70	-4.06	0.000393	38.45	-42.51
847.50	3	QPSK	1 / 14	24.76	-26.70	-4.09	0.000390	38.45	-42.54
825.50	3	16-QAM	1 / 7	24.23	-26.70	-4.62	0.000345	38.45	-43.07
826.50	5	QPSK	1 / 0	24.79	-26.70	-4.06	0.000393	38.45	-42.51
836.50	5	QPSK	1 / 0	24.80	-26.70	-4.05	0.000394	38.45	-42.50
846.50	5	QPSK	1 / 0	24.76	-26.70	-4.09	0.000390	38.45	-42.54
826.50	5	16-QAM	1 / 12	24.31	-26.70	-4.54	0.000352	38.45	-42.99
829.00	10	QPSK	1 / 0	24.91	-26.70	-3.94	0.000404	38.45	-42.39
836.50	10	QPSK	1 / 0	24.89	-26.70	-3.96	0.000402	38.45	-42.41
844.00	10	QPSK	1 / 0	24.82	-26.70	-4.03	0.000395	38.45	-42.48
836.50	10	16-QAM	1 / 26	24.28	-26.70	-4.57	0.000349	38.45	-43.02

Table 7-6. ERP Data (Band 5)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch				

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.79	-26.70	-4.06	0.000393	38.45	-42.51
836.50	1.4	QPSK	1 / 0	24.74	-26.70	-4.11	0.000388	38.45	-42.56
848.30	1.4	QPSK	1 / 5	24.68	-26.70	-4.17	0.000383	38.45	-42.62
824.70	1.4	16-QAM	1 / 2	24.12	-26.70	-4.73	0.000337	38.45	-43.18
825.50	3	QPSK	1 / 0	24.88	-26.70	-3.97	0.000401	38.45	-42.42
836.50	3	QPSK	1 / 0	24.82	-26.70	-4.03	0.000395	38.45	-42.48
847.50	3	QPSK	1 / 0	24.68	-26.70	-4.17	0.000383	38.45	-42.62
825.50	3	16-QAM	1 / 7	24.06	-26.70	-4.79	0.000332	38.45	-43.24
826.50	5	QPSK	1 / 0	24.87	-26.70	-3.98	0.000400	38.45	-42.43
836.50	5	QPSK	1 / 0	24.76	-26.70	-4.09	0.000390	38.45	-42.54
846.50	5	QPSK	1 / 0	24.88	-26.70	-3.97	0.000401	38.45	-42.42
846.50	5	16-QAM	1 / 0	24.16	-26.70	-4.69	0.000340	38.45	-43.14
829.00	10	QPSK	1 / 0	24.80	-26.70	-4.05	0.000394	38.45	-42.50
836.50	10	QPSK	1 / 0	24.79	-26.70	-4.06	0.000393	38.45	-42.51
844.00	10	QPSK	1 / 0	24.76	-26.70	-4.09	0.000390	38.45	-42.54
829.00	10	16-QAM	1 / 26	24.30	-26.70	-4.55	0.000351	38.45	-43.00

Table 7-7. ERP Data (Band 26)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch			

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	3 / 0	23.48	-13.50	9.98	0.00995	30.00	-20.02
1732.50	1.4	QPSK	1 / 0	23.50	-13.50	10.00	0.01000	30.00	-20.00
1754.30	1.4	QPSK	3 / 0	23.46	-13.50	9.96	0.00991	30.00	-20.04
1710.70	1.4	16-QAM	1 / 5	22.94	-13.50	9.44	0.00879	30.00	-20.56
1711.50	3	QPSK	1 / 7	23.38	-13.50	9.88	0.00973	30.00	-20.12
1732.50	3	QPSK	1 / 7	23.48	-13.50	9.98	0.00995	30.00	-20.02
1753.50	3	QPSK	1 / 7	23.37	-13.50	9.87	0.00971	30.00	-20.13
1732.50	3	16-QAM	1 / 7	23.01	-13.50	9.51	0.00893	30.00	-20.49
1712.50	5	QPSK	1 / 0	23.44	-13.50	9.94	0.00986	30.00	-20.06
1732.50	5	QPSK	1 / 24	23.50	-13.50	10.00	0.01000	30.00	-20.00
1752.50	5	QPSK	1 / 24	23.40	-13.50	9.90	0.00977	30.00	-20.10
1732.50	5	16-QAM	1 / 24	23.04	-13.50	9.54	0.00899	30.00	-20.46
1715.00	10	QPSK	1 / 0	23.40	-13.50	9.90	0.00977	30.00	-20.10
1732.50	10	QPSK	1 / 49	23.33	-13.50	9.83	0.00962	30.00	-20.17
1750.00	10	QPSK	1 / 49	23.49	-13.50	9.99	0.00998	30.00	-20.01
1750.00	10	16-QAM	1 / 26	23.12	-13.50	9.62	0.00916	30.00	-20.38
1717.50	15	QPSK	1 / 0	23.28	-13.50	9.78	0.00951	30.00	-20.22
1732.50	15	QPSK	1 / 36	23.50	-13.50	10.00	0.01000	30.00	-20.00
1747.50	15	QPSK	1 / 36	23.44	-13.50	9.94	0.00986	30.00	-20.06
1717.50	15	16-QAM	1 / 26	23.27	-13.50	9.77	0.00948	30.00	-20.23
1720.00	20	QPSK	1 / 99	23.49	-13.50	9.99	0.00998	30.00	-20.01
1732.50	20	QPSK	1 / 99	23.49	-13.50	9.99	0.00998	30.00	-20.01
1745.00	20	QPSK	1 / 0	23.50	-13.50	10.00	0.01000	30.00	-20.00
1745.00	20	16-QAM	1 / 0	23.00	-13.50	9.50	0.00891	30.00	-20.50

Table 7-8. EIRP Data (Band 4)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch				

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 0	23.34	-14.60	8.74	0.00748	33.01	-24.27
1880.00	1.4	QPSK	1 / 0	23.38	-14.60	8.78	0.00755	33.01	-24.23
1909.30	1.4	QPSK	1 / 0	23.31	-14.60	8.71	0.00743	33.01	-24.30
1880.00	1.4	16-QAM	1 / 5	22.89	-14.60	8.29	0.00675	33.01	-24.72
1851.50	3	QPSK	1 / 0	23.21	-14.60	8.61	0.00726	33.01	-24.40
1880.00	3	QPSK	1 / 0	23.28	-14.60	8.68	0.00738	33.01	-24.33
1908.50	3	QPSK	1 / 0	23.25	-14.60	8.65	0.00733	33.01	-24.36
1880.00	3	16-QAM	1 / 0	22.80	-14.60	8.20	0.00661	33.01	-24.81
1852.50	5	QPSK	1 / 0	23.41	-14.60	8.81	0.00760	33.01	-24.20
1880.00	5	QPSK	1 / 24	23.28	-14.60	8.68	0.00738	33.01	-24.33
1907.50	5	QPSK	1 / 24	23.22	-14.60	8.62	0.00728	33.01	-24.39
1907.50	5	16-QAM	1 / 0	22.89	-14.60	8.29	0.00675	33.01	-24.72
1855.00	10	QPSK	1 / 0	23.28	-14.60	8.68	0.00738	33.01	-24.33
1880.00	10	QPSK	1 / 0	23.32	-14.60	8.72	0.00745	33.01	-24.29
1905.00	10	QPSK	1 / 25	23.31	-14.60	8.71	0.00743	33.01	-24.30
1855.00	10	16-QAM	1 / 26	22.35	-14.60	7.75	0.00596	33.01	-25.26
1857.50	15	QPSK	1 / 36	23.22	-14.60	8.62	0.00728	33.01	-24.39
1880.00	15	QPSK	1 / 36	23.25	-14.60	8.65	0.00733	33.01	-24.36
1902.50	15	QPSK	1 / 0	23.25	-14.60	8.65	0.00733	33.01	-24.36
1880.00	15	16-QAM	1 / 0	22.78	-14.60	8.18	0.00658	33.01	-24.83
1860.00	20	QPSK	1 / 99	23.46	-14.60	8.86	0.00769	33.01	-24.15
1880.00	20	QPSK	1 / 0	23.45	-14.60	8.85	0.00767	33.01	-24.16
1900.00	20	QPSK	1 / 0	23.43	-14.60	8.83	0.00764	33.01	-24.18
1900.00	20	16-QAM	1 / 0	23.10	-14.60	8.50	0.00708	33.01	-24.51

Table 7-9. EIRP Data (Band 2)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch				

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 2	23.25	-14.60	8.65	0.00733	33.01	-24.36
1882.50	1.4	QPSK	1 / 0	23.35	-14.60	8.75	0.00750	33.01	-24.26
1914.30	1.4	QPSK	1 / 5	23.30	-14.60	8.70	0.00741	33.01	-24.31
1882.50	1.4	16-QAM	1 / 0	22.70	-14.60	8.10	0.00646	33.01	-24.91
1851.50	3	QPSK	1 / 0	23.20	-14.60	8.60	0.00724	33.01	-24.41
1882.50	3	QPSK	1 / 7	23.22	-14.60	8.62	0.00728	33.01	-24.39
1913.50	3	QPSK	1 / 0	23.31	-14.60	8.71	0.00743	33.01	-24.30
1851.50	3	16-QAM	1 / 7	22.75	-14.60	8.15	0.00653	33.01	-24.86
1852.50	5	QPSK	1 / 0	23.22	-14.60	8.62	0.00728	33.01	-24.39
1882.50	5	QPSK	1 / 24	23.20	-14.60	8.60	0.00724	33.01	-24.41
1912.50	5	QPSK	1 / 0	23.22	-14.60	8.62	0.00728	33.01	-24.39
1912.50	5	16-QAM	1 / 12	22.75	-14.60	8.15	0.00653	33.01	-24.86
1855.00	10	QPSK	1 / 49	23.35	-14.60	8.75	0.00750	33.01	-24.26
1882.50	10	QPSK	1 / 0	23.45	-14.60	8.85	0.00767	33.01	-24.16
1910.00	10	QPSK	1 / 0	23.48	-14.60	8.88	0.00773	33.01	-24.13
1910.00	10	16-QAM	1 / 27	22.94	-14.60	8.34	0.00682	33.01	-24.67
1857.50	15	QPSK	1 / 36	23.25	-14.60	8.65	0.00733	33.01	-24.36
1882.50	15	QPSK	1 / 0	23.21	-14.60	8.61	0.00726	33.01	-24.40
1907.50	15	QPSK	1 / 0	23.22	-14.60	8.62	0.00728	33.01	-24.39
1882.50	15	16-QAM	1 / 0	22.67	-14.60	8.07	0.00641	33.01	-24.94
1860.00	20	QPSK	1 / 0	23.30	-14.60	8.70	0.00741	33.01	-24.31
1882.50	20	QPSK	1 / 99	23.30	-14.60	8.70	0.00741	33.01	-24.31
1905.00	20	QPSK	1 / 50	23.21	-14.60	8.61	0.00726	33.01	-24.40
1882.50	20	16-QAM	1 / 0	22.72	-14.60	8.12	0.00649	33.01	-24.89

Table 7-10. EIRP Data (Band 25)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch				

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2506.00	5	QPSK	1 / 0	22.10	-11.60	10.50	0.0112	33.01	-22.51
2593.00	5	QPSK	1 / 0	22.40	-11.60	10.80	0.0120	33.01	-22.21
2680.00	5	QPSK	1 / 0	22.70	-11.60	11.10	0.0129	33.01	-21.91
2680.00	5	16-QAM	1 / 0	21.80	-11.60	10.20	0.0105	33.01	-22.81
2506.00	10	QPSK	1 / 0	22.10	-11.60	10.50	0.0112	33.01	-22.51
2593.00	10	QPSK	1 / 25	22.38	-11.60	10.78	0.0120	33.01	-22.23
2680.00	10	QPSK	1 / 0	22.71	-11.60	11.11	0.0129	33.01	-21.90
2680.00	10	16-QAM	1 / 26	22.00	-11.60	10.40	0.0110	33.01	-22.61
2506.00	15	QPSK	1 / 0	22.10	-11.60	10.50	0.0112	33.01	-22.51
2593.00	15	QPSK	1 / 0	22.46	-11.60	10.86	0.0122	33.01	-22.15
2680.00	15	QPSK	1 / 0	22.70	-11.60	11.10	0.0129	33.01	-21.91
2680.00	15	16-QAM	1 / 15	22.25	-11.60	10.65	0.0116	33.01	-22.36
2506.00	20	QPSK	1 / 0	22.10	-11.60	10.50	0.0112	33.01	-22.51
2593.00	20	QPSK	1 / 0	22.30	-11.60	10.70	0.0117	33.01	-22.31
2680.00	20	QPSK	1 / 0	22.43	-11.60	10.83	0.0121	33.01	-22.18
2506.00	20	16-QAM	1 / 0	22.00	-11.60	10.40	0.0110	33.01	-22.61

Table 7-11. EIRP Data (Band 41)

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7.7 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

Test Settings

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

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Test Setup

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

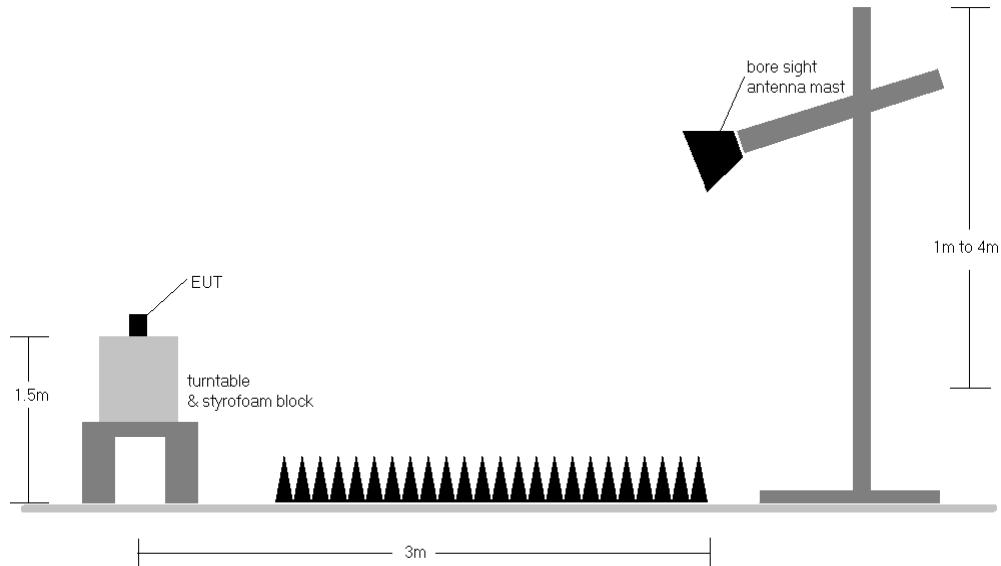


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 6) For LTE Band 41, a duty cycle correction factor is applied to the spectrum analyzer readings (Per ANSI C63.26-2015 Section 5.7.3 - d3)). The measured duty cycle is, DC = 1.98ms/4.995ms = 39.6%; and the Duty Cycle Correction Factor is, DCCF = $10\log(1/DC) = 4.023\text{dB}$.

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Band 12

OPERATING FREQUENCY: 704.00 MHz
CHANNEL: 23060
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	-	-	-71.66	4.77	-66.88	-53.9
2112.00	H	121	319	-67.25	4.91	-62.34	-49.3
2816.00	H	-	-	-69.01	6.59	-62.43	-49.4
3520.00	H	-	-	-69.89	7.68	-62.21	-49.2
4224.00	H	-	-	-69.54	8.40	-61.13	-48.1

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

OPERATING FREQUENCY: 707.50 MHz
CHANNEL: 23095
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	-	-	-72.02	4.84	-67.19	-54.2
2122.50	H	122	306	-67.41	4.92	-62.49	-49.5
2830.00	H	-	-	-68.90	6.61	-62.29	-49.3
3537.50	H	-	-	-69.90	7.68	-62.22	-49.2
4245.00	H	-	-	-69.77	8.41	-61.36	-48.4

Table 7-13. Radiated Spurious Data (Band 12 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 711.00 MHz
CHANNEL: 23130
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	-	-	-72.11	4.90	-67.21	-54.2
2133.00	H	183	327	-66.17	4.94	-61.23	-48.2
2844.00	H	-	-	-68.81	6.63	-62.18	-49.2
3555.00	H	-	-	-69.96	7.66	-62.30	-49.3
4266.00	H	-	-	-69.77	8.43	-61.34	-48.3

Table 7-14. Radiated Spurious Data (Band 12 – High Channel)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Band 17

OPERATING FREQUENCY: 709.00 MHz
 CHANNEL: 23755
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1418.00	H	-	-	-72.07	4.86	-67.21	-54.2
2127.00	H	118	342	-66.03	4.93	-61.10	-48.1
2836.00	H	-	-	-69.03	6.62	-62.41	-49.4
3545.00	H	-	-	-69.69	7.68	-62.01	-49.0
4254.00	H	-	-	-69.49	8.42	-61.07	-48.1

Table 7-15. Radiated Spurious Data (Band 17 – Low Channel)

OPERATING FREQUENCY: 710.00 MHz
 CHANNEL: 23790
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1420.00	H	-	-	-72.17	4.88	-67.29	-54.3
2130.00	H	106	345	-67.45	4.93	-62.52	-49.5
2840.00	H	-	-	-68.89	6.62	-62.27	-49.3
3550.00	H	-	-	-69.78	7.68	-62.10	-49.1
4260.00	H	-	-	-69.80	8.42	-61.38	-48.4

Table 7-16. Radiated Spurious Data (Band 17 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 711.00 MHz
 CHANNEL: 23825
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	-	-	-72.33	4.90	-67.43	-54.4
2133.00	H	-	-	-68.82	4.94	-63.88	-50.9
2844.00	H	-	-	-68.54	6.63	-61.91	-48.9

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

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Band 13

OPERATING FREQUENCY: 782.00 MHz
 CHANNEL: 23230
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	H	-	-	-69.41	5.47	-63.94	-50.9
3128.00	H	-	-	-69.87	6.67	-63.20	-50.2
3910.00	H	-	-	-70.49	7.75	-62.75	-49.7

Table 7-18. Radiated Spurious Data (Band 13 – Mid Channel)

MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.00 MHz
 DISTANCE: 3 meters
 NARROWBAND EMISSION LIMIT: -50 dBm
 WIDEBAND EMISSION LIMIT: -40 dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1564.00	H	117	40	-68.62	5.52	-63.10	-23.1

Table 7-19. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 5

OPERATING FREQUENCY: 829.00 MHz
 CHANNEL: 20450
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	V	-	-	-71.97	5.27	-66.70	-53.7
2487.00	V	121	54	-62.22	5.42	-56.79	-43.8
3316.00	V	-	-	-69.30	7.21	-62.09	-49.1
4145.00	V	-	-	-69.88	8.41	-61.47	-48.5
4974.00	V	-	-	-70.46	9.73	-60.74	-47.7

Table 7-20. Radiated Spurious Data (Band 5 – Low Channel)

OPERATING FREQUENCY: 836.50 MHz
 CHANNEL: 20525
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	V	-	-	-71.60	5.16	-66.44	-53.4
2509.50	V	170	90	-64.26	5.39	-58.87	-45.9
3346.00	V	-	-	-69.84	7.31	-62.53	-49.5
4182.50	V	-	-	-70.03	8.40	-61.63	-48.6
5019.00	V	-	-	-70.16	9.79	-60.37	-47.4

Table 7-21. Radiated Spurious Data (Band 5 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST® <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 844.00 MHz
 CHANNEL: 20600
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	V	-	-	-71.58	5.05	-66.52	-53.5
2532.00	V	106	90	-63.50	5.36	-58.15	-45.1
3376.00	V	-	-	-70.00	7.40	-62.61	-49.6
4220.00	V	-	-	-70.26	8.40	-61.86	-48.9
5064.00	V	-	-	-70.24	9.82	-60.42	-47.4

Table 7-22. Radiated Spurious Data (Band 5 – High Channel)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Band 26

OPERATING FREQUENCY: 821.50 MHz
 CHANNEL: 26765
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1643.00	H	-	-	-66.64	5.35	-61.29	-48.3
2464.50	H	146	21	-53.58	5.45	-48.13	-35.1
3286.00	H	-	-	-63.37	7.13	-56.24	-43.2
4107.50	H	-	-	-64.44	8.37	-56.07	-43.1
4929.00	H	-	-	-63.68	9.64	-54.04	-41.0

Table 7-23. Radiated Spurious Data (Band 26 – Low Channel)

OPERATING FREQUENCY: 831.50 MHz
 CHANNEL: 26865
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1663.00	H	-	-	-71.67	5.23	-66.44	-53.4
2494.50	H	375	155	-65.09	5.41	-59.68	-46.7
3326.00	H	-	-	-69.61	7.24	-62.36	-49.4
4157.50	H	-	-	-60.63	8.41	-52.22	-39.2
4989.00	H	-	-	-61.75	9.75	-52.00	-39.0

Table 7-24. Radiated Spurious Data (Band 26 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 841.50 MHz
 CHANNEL: 26965
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1683.00	H	-	-	-63.31	5.09	-58.22	-45.2
2524.50	H	146	88	-61.39	5.37	-56.02	-43.0
3366.00	H	-	-	-62.00	7.37	-54.64	-41.6
4207.50	H	-	-	-61.27	8.40	-52.88	-39.9
5049.00	H	-	-	-61.12	9.82	-51.30	-38.3

Table 7-25. Radiated Spurious Data (Band 26 – High Channel)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 4

OPERATING FREQUENCY: 1720.00 MHz
 CHANNEL: 20050
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	V	125	191	-63.73	7.57	-56.16	-43.2
5160.00	V	102	318	-64.92	9.78	-55.15	-42.1
6880.00	V	-	-	-62.21	11.00	-51.21	-38.2
8600.00	V	276	278	-60.51	12.50	-48.01	-35.0
10320.00	V	106	178	-59.71	12.22	-47.49	-34.5
12040.00	V	-	-	-56.16	12.32	-43.85	-30.8
13760.00	V	-	-	-55.27	13.71	-41.56	-28.6
15480.00	V	-	-	-52.72	12.52	-40.20	-27.2

Table 7-26. Radiated Spurious Data (Band 4 – Low Channel)

OPERATING FREQUENCY: 1732.50 MHz
 CHANNEL: 20175
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3465.00	V	-	-	-70.39	7.62	-62.76	-49.8
5197.50	V	-	-	-70.60	9.75	-60.85	-47.8
6930.00	V	-	-	-69.91	11.05	-58.86	-45.9

Table 7-27. Radiated Spurious Data (Band 4 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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OPERATING FREQUENCY: 1745.00 MHz
 CHANNEL: 20300
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	V	110	194	-63.29	7.66	-55.63	-42.6
5235.00	V	118	24	-64.09	9.74	-54.35	-41.4
6980.00	V	-	-	-62.61	11.07	-51.54	-38.5
8725.00	V	256	352	-61.16	12.46	-48.70	-35.7
10470.00	V	305	22	-59.57	12.25	-47.32	-34.3
12215.00	V	-	-	-56.69	12.41	-44.27	-31.3
13960.00	V	-	-	-55.49	13.69	-41.80	-28.8
15705.00	V	-	-	-53.61	12.64	-40.97	-28.0

Table 7-28. Radiated Spurious Data (Band 4 – High Channel)

FCC ID: BCG-A1976	 PCTEST® ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 2

OPERATING FREQUENCY: 1860.00 MHz
 CHANNEL: 18607
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.44	7.09	-62.35	-49.3
5580.00	H	106	136	-69.02	10.06	-58.95	-46.0
7440.00	H	-	-	-68.52	11.63	-56.89	-43.9
9300.00	H	289	8	-66.24	12.44	-53.80	-40.8

Table 7-29. Radiated Spurious Data (Band 2 – Low Channel)

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 18900
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	V	-	-	-67.39	7.10	-60.29	-47.3
5640.00	V	-	-	-70.84	10.04	-60.79	-47.8
7520.00	V	-	-	-69.54	11.68	-57.86	-44.9

Table 7-30. Radiated Spurious Data (Band 2 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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OPERATING FREQUENCY: 1900.00 MHz
 CHANNEL: 19193
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 1.4 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3800.00	V	207	322	-67.45	7.21	-60.24	-47.2
5700.00	V	-	-	-69.63	10.05	-59.57	-46.6
7600.00	V	-	-	-68.56	11.72	-56.84	-43.8
9500.00	V	280	209	-65.06	12.34	-52.72	-39.7
11400.00	V	-	-	-64.50	12.49	-52.00	-39.0
13300.00	V	-	-	-62.27	13.26	-49.01	-36.0
15200.00	V	-	-	-59.09	12.25	-46.85	-33.8

Table 7-31. Radiated Spurious Data (Band 2 – High Channel)

FCC ID: BCG-A1976	 PCTEST® <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25

OPERATING FREQUENCY: 1860.0 MHz
 CHANNEL: 26140
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	121	221	-66.10	7.09	-59.01	-46.0
5580.00	H	-	-	-69.87	10.06	-59.80	-46.8
7440.00	H	-	-	-69.62	11.63	-57.99	-45.0
9300.00	H	-	-	-66.62	12.44	-54.18	-41.2

Table 7-32. Radiated Spurious Data (Band 25 – Low Channel)

OPERATING FREQUENCY: 1882.50 MHz
 CHANNEL: 26365
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	V	102	312	-65.77	7.12	-58.65	-45.7
5647.50	V	-	-	-70.57	10.04	-60.53	-47.5
7530.00	V	-	-	-69.50	11.68	-57.82	-44.8
9412.50	V	-	-	-66.62	12.35	-54.27	-41.3

Table 7-33. Radiated Spurious Data (Band 25 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 1905.00 MHz
 CHANNEL: 26590
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	V	-	-	-71.62	7.26	-64.36	-51.4
5715.00	V	-	-	-70.37	10.05	-60.32	-47.3
7620.00	V	-	-	-69.23	11.74	-57.50	-44.5

Table 7-34. Radiated Spurious Data (Band 25 – High Channel)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 208 of 228	

Band 41

OPERATING FREQUENCY:	2506.00	MHz
CHANNEL:	39750	
MODULATION SIGNAL:		
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Duty Cycle Correction Factor [dB]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	340	316	4.02	-62.04	9.78	-52.26	-27.3
7522.00	H	102	360	4.02	-63.48	11.68	-51.80	-26.8
10032.00	V	350	209	4.02	-59.66	12.21	-47.45	-22.5
12542.00	-	-	-	4.02	-64.72	12.62	-52.11	-27.1
15052.00	H	264	175	4.02	-56.03	12.45	-43.58	-18.6
17562.00	-	-	-	4.02	-58.25	11.94	-46.30	-21.3

Table 7-35. Radiated Spurious Data (Band 41 – Low Channel)

OPERATING FREQUENCY:	2593.00	MHz
CHANNEL:	40620	
MODULATION SIGNAL:		
BANDWIDTH:	20.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Duty Cycle Correction Factor [dB]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	110	328	4.02	-64.03	9.76	-54.27	-29.3
7779.00	H	114	47	4.02	-62.15	11.87	-50.28	-25.3
10372.00	H	102	316	4.02	-54.83	12.23	-42.60	-17.6
12965.00	-	-	-	4.02	-65.05	12.89	-52.16	-27.2
15558.00	H	231	298	4.02	-56.88	12.58	-44.30	-19.3

Table 7-36. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 2680.00 MHz
 CHANNEL: 41490
 MODULATION SIGNAL:
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Duty Cycle Correction Factor [dB]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	158	330	4.02	-63.06	9.86	-53.20	-28.2
8045.00	H	105	51	4.02	-55.36	12.10	-43.26	-18.3
10730.00	H	110	324	4.02	-53.48	12.30	-41.18	-16.2
13415.00	-	-	-	4.02	-64.46	13.36	-51.10	-26.1
16100.00	H	102	365	4.02	-53.84	12.42	-41.42	-16.4

Table 7-37. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCG-A1976	 PCTEST® <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806040006-03-R1.BCG	Test Dates: 5/25 - 8/18/2018	EUT Type: Watch	Page 210 of 228

7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/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 $\pm 0.00025\%$ ($\pm 2.5 \text{ ppm}$) 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

ANSI/TIA-603-E-2016

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 spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

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Band 12 Frequency Stability Measurements

OPERATING FREQUENCY: 707,500,000 Hz
 CHANNEL: 23790
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20	707,500,004	4	0.0000006
100 %		- 30	707,500,004	4	0.0000006
100 %		- 20	707,500,004	4	0.0000006
100 %		- 10	707,500,005	5	0.0000007
100 %		0	707,500,005	5	0.0000007
100 %		+ 10	707,500,005	5	0.0000007
100 %		+ 20	707,500,004	4	0.0000006
100 %		+ 30	707,500,005	5	0.0000006
100 %		+ 40	707,500,006	6	0.0000008
100 %		+ 50	707,500,004	4	0.0000005
BATT. ENDPOINT	3.40	+ 20	707,500,005	5	0.0000006

Table 7-38. Frequency Stability Data (Band 12)

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-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 12 Frequency Stability Measurements

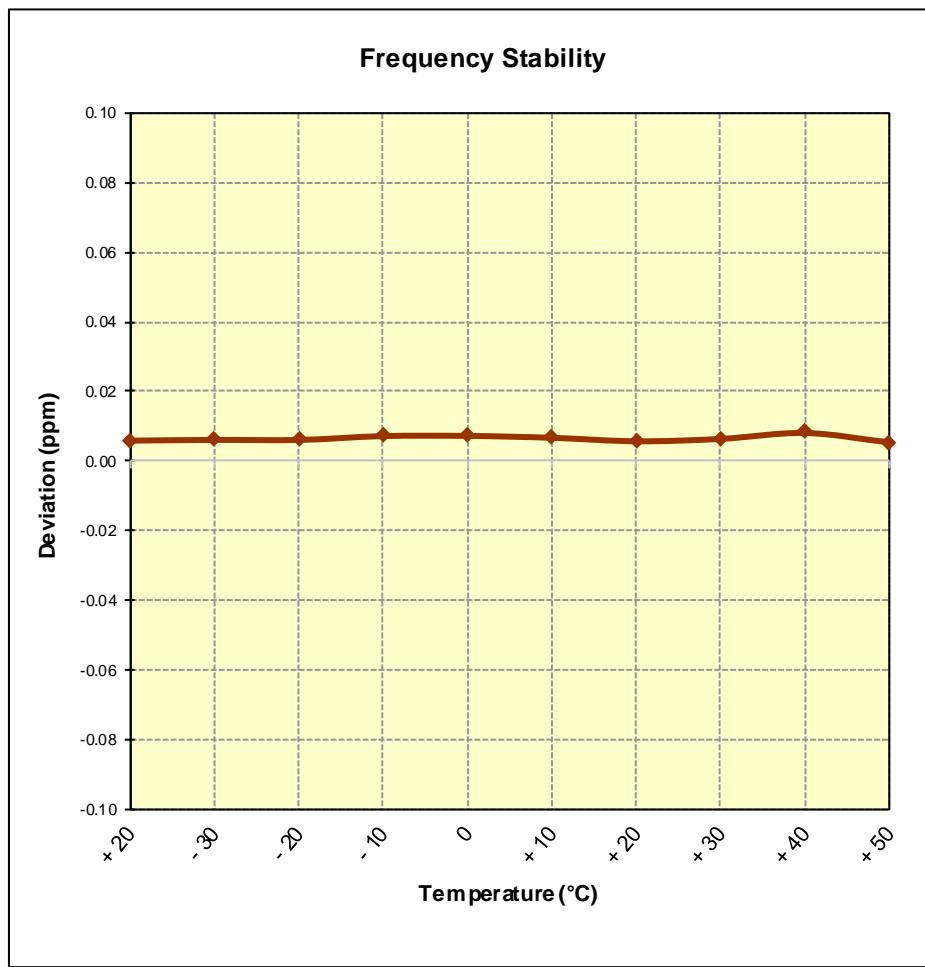


Figure 7-7. Frequency Stability Graph (Band 12)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 17 Frequency Stability Measurements

OPERATING FREQUENCY: 710,000,000 Hz
 CHANNEL: 23090
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20	710,000,004	4	0.0000006
100 %		- 30	710,000,004	4	0.0000006
100 %		- 20	710,000,004	4	0.0000006
100 %		- 10	710,000,005	5	0.0000007
100 %		0	710,000,005	5	0.0000008
100 %		+ 10	710,000,006	6	0.0000008
100 %		+ 20	710,000,005	5	0.0000006
100 %		+ 30	710,000,005	5	0.0000006
100 %		+ 40	710,000,004	4	0.0000006
100 %		+ 50	710,000,006	6	0.0000008
BATT. ENDPOINT	3.40	+ 20	710,000,004	4	0.0000005

Table 7-39. Frequency Stability Data (Band 17)

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-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 17 Frequency Stability Measurements

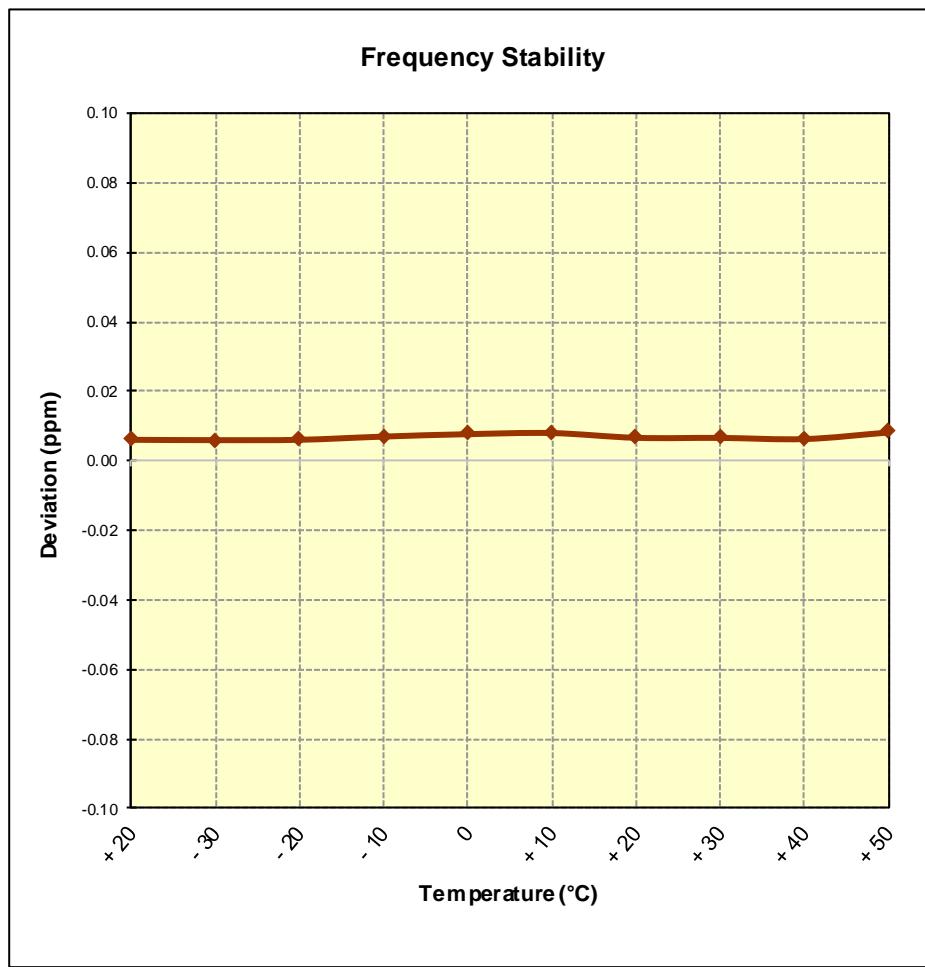


Figure 7-8. Frequency Stability Graph (Band 17)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

 OPERATING FREQUENCY: 782,000,000 Hz

 CHANNEL: 23230

 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20	782,000,005	5	0.0000007
100 %		- 30	782,000,005	5	0.0000006
100 %		- 20	782,000,006	6	0.0000007
100 %		- 10	782,000,005	5	0.0000006
100 %		0	782,000,006	6	0.0000007
100 %		+ 10	782,000,005	5	0.0000006
100 %		+ 20	782,000,005	5	0.0000006
100 %		+ 30	782,000,005	5	0.0000007
100 %		+ 40	782,000,006	6	0.0000008
100 %		+ 50	782,000,006	6	0.0000008
BATT. ENDPOINT	3.40	+ 20	782,000,005	5	0.0000007

Table 7-40. Frequency Stability Data (Band 13)

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-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

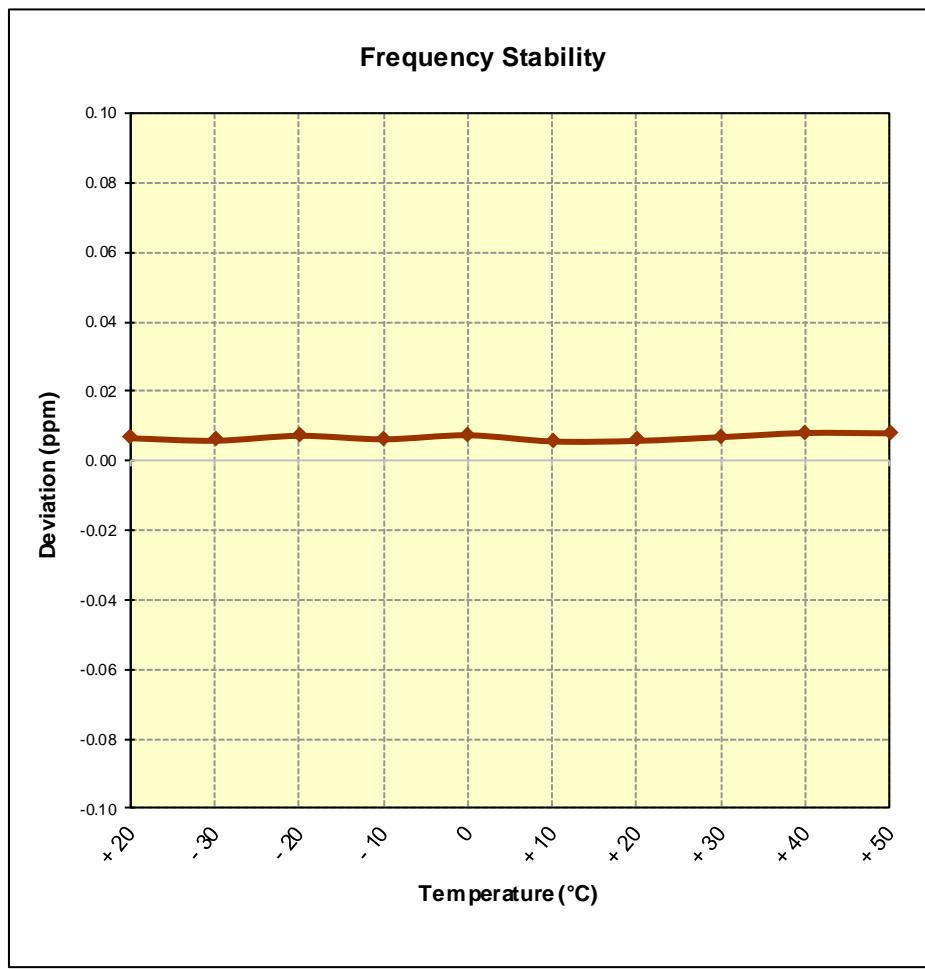


Figure 7-9. Frequency Stability Graph (Band 13)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 5/26 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz
 CHANNEL: 20525
 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	+ 20	836,500,004	4	0.0000005
100 %		- 30	836,500,004	4	0.0000005
100 %		- 20	836,500,004	4	0.0000005
100 %		- 10	836,500,005	5	0.0000005
100 %		0	836,500,005	5	0.0000005
100 %		+ 10	836,500,004	4	0.0000004
100 %		+ 20	836,500,005	5	0.0000006
100 %		+ 30	836,500,006	6	0.0000007
100 %		+ 40	836,500,005	5	0.0000006
100 %		+ 50	836,500,005	5	0.0000006
BATT. ENDPOINT	3.40	+ 20	836,500,005	5	0.0000006

Table 7-41. Frequency Stability Data (Band 5/26)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 5/26 Frequency Stability Measurements

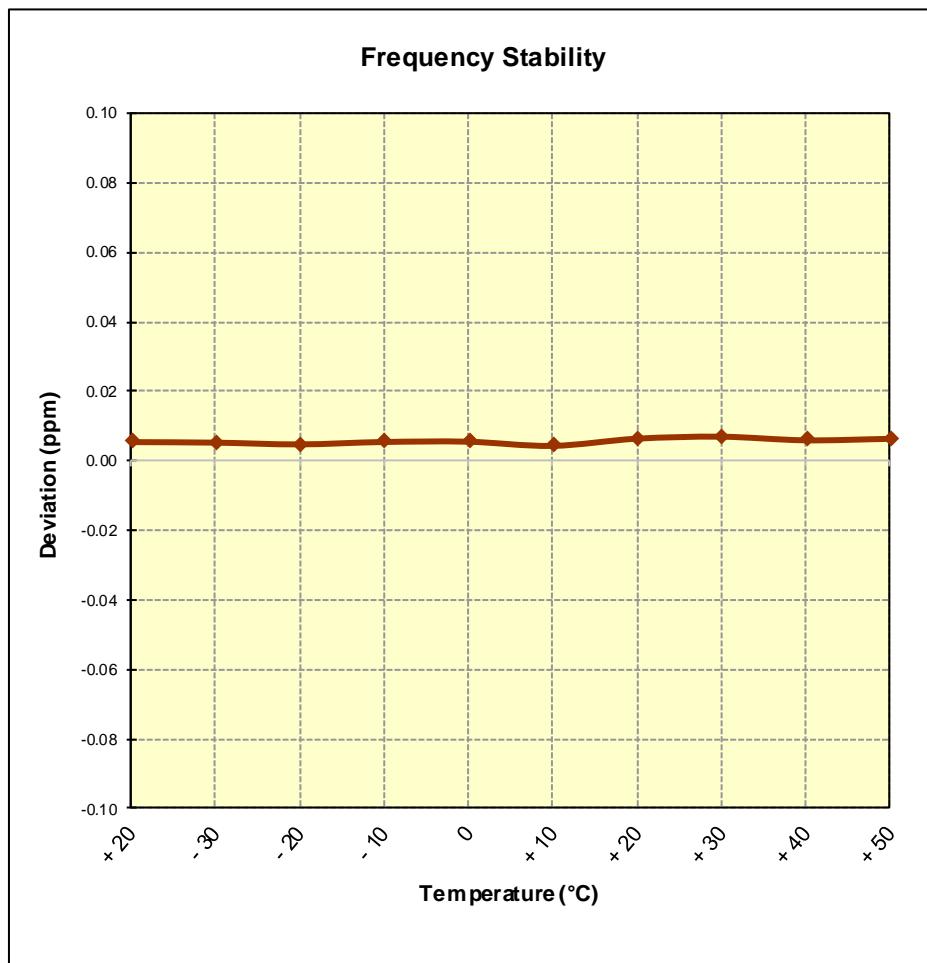


Figure 7-10. Frequency Stability Graph (Band 5/26)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,732,500,000 Hz

CHANNEL: 20175

REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20	1,732,500,020	20	0.0000012
100 %		- 30	1,732,500,015	15	0.0000009
100 %		- 20	1,732,500,015	15	0.0000008
100 %		- 10	1,732,500,014	14	0.0000008
100 %		0	1,732,500,015	15	0.0000009
100 %		+ 10	1,732,500,015	15	0.0000009
100 %		+ 20	1,732,500,017	17	0.0000010
100 %		+ 30	1,732,500,016	16	0.0000009
100 %		+ 40	1,732,500,017	17	0.0000010
100 %		+ 50	1,732,500,016	16	0.0000009
BATT. ENDPOINT	3.40	+ 20	1,732,500,020	20	0.0000012

Table 7-42. Frequency Stability Data (Band 4)

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-A1976	 PCTEST <small>ENGINEERING LABORATORY, INC.</small>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 4 Frequency Stability Measurements

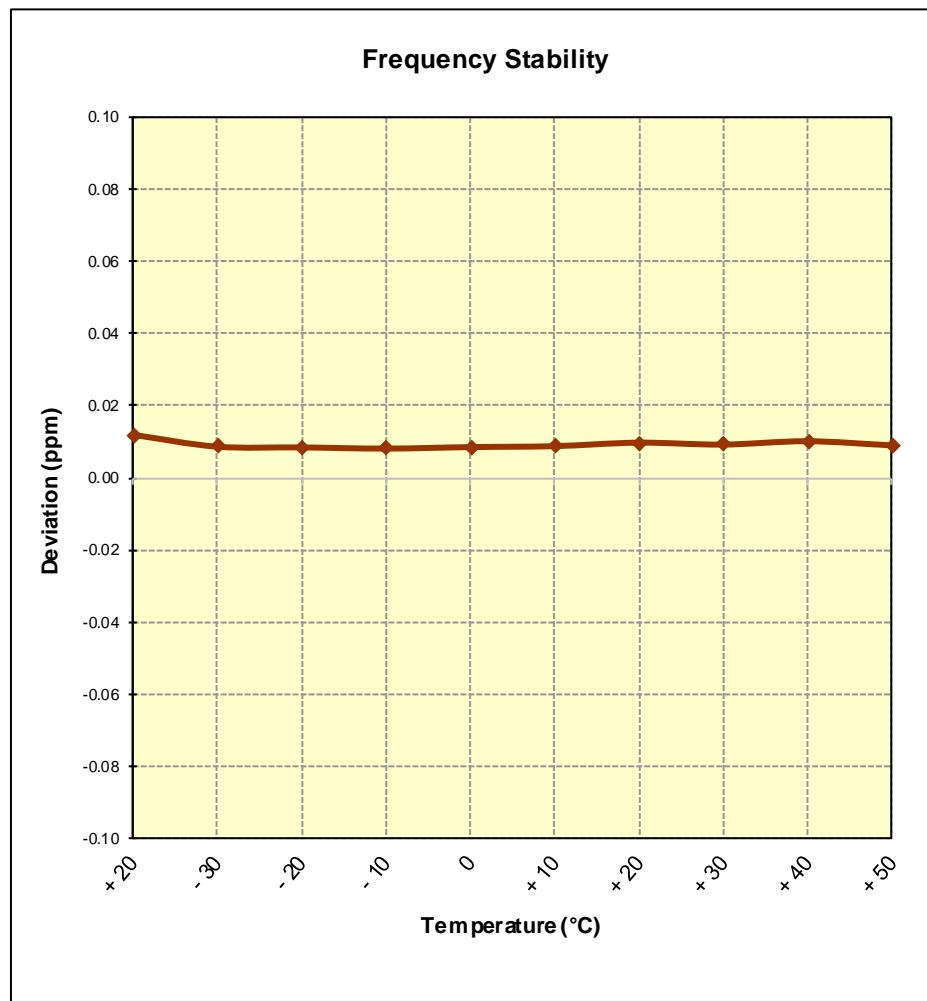


Figure 7-11. Frequency Stability Graph (Band 4)

FCC ID: BCG-A1976	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 2 Frequency Stability Measurements

 OPERATING FREQUENCY: 1,880,000,000 Hz

 CHANNEL: 18900

 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20	1,880,000,023	23	0.0000012
100 %		- 30	1,880,000,020	20	0.0000011
100 %		- 20	1,880,000,020	20	0.0000011
100 %		- 10	1,880,000,023	23	0.0000012
100 %		0	1,880,000,020	20	0.0000010
100 %		+ 10	1,880,000,021	21	0.0000011
100 %		+ 20	1,880,000,018	18	0.0000009
100 %		+ 30	1,880,000,021	21	0.0000011
100 %		+ 40	1,880,000,022	22	0.0000012
100 %		+ 50	1,880,000,016	16	0.0000008
BATT. ENDPOINT	3.40	+ 20	1,880,000,023	23	0.0000012

Table 7-43. Frequency Stability Data (Band 2)

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-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 2 Frequency Stability Measurements

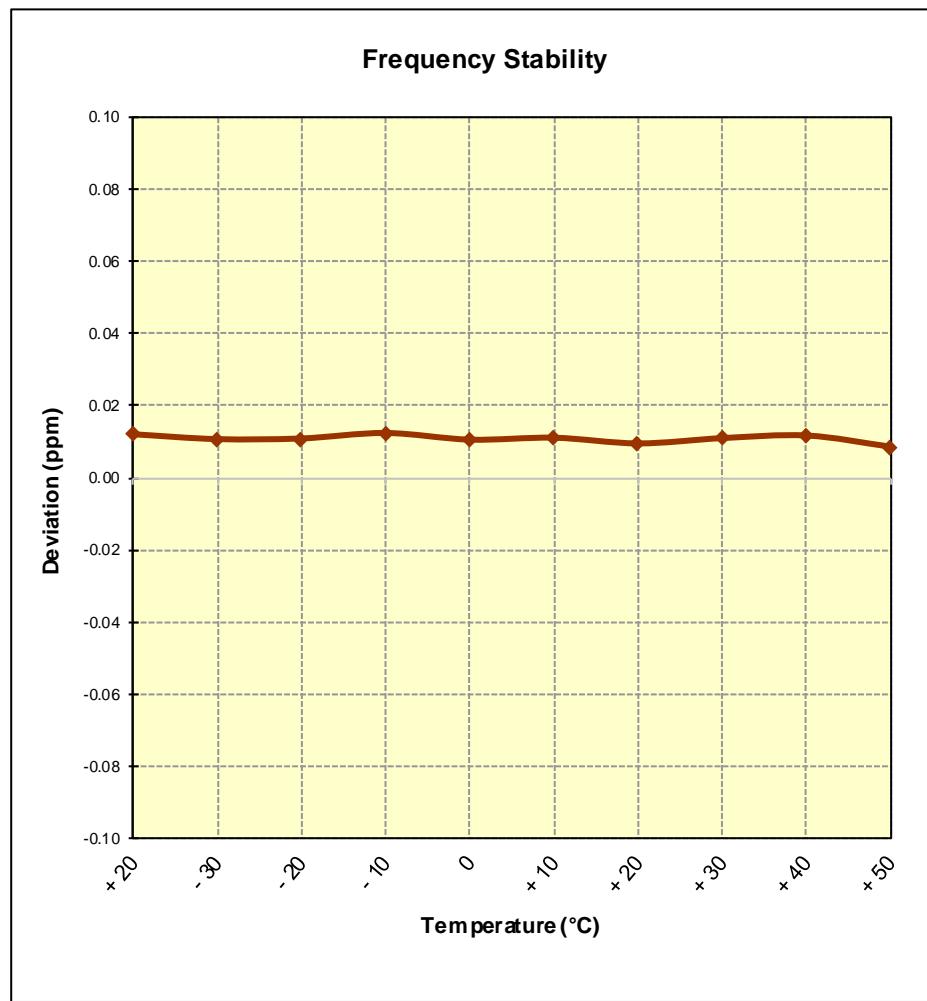


Figure 7-12. Frequency Stability Graph (Band 2)

FCC ID: BCG-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 25 Frequency Stability Measurements

 OPERATING FREQUENCY: 1,882,500,000 Hz

 CHANNEL: 26365

 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20	1,882,500,019	19	0.0000010
100 %		- 30	1,882,500,018	18	0.0000009
100 %		- 20	1,882,500,021	21	0.0000011
100 %		- 10	1,882,500,024	24	0.0000013
100 %		0	1,882,500,021	21	0.0000011
100 %		+ 10	1,882,500,019	19	0.0000010
100 %		+ 20	1,882,500,020	20	0.0000011
100 %		+ 30	1,882,500,026	26	0.0000014
100 %		+ 40	1,882,500,023	23	0.0000012
100 %		+ 50	1,882,500,023	23	0.0000012
BATT. ENDPOINT	3.40	+ 20	1,882,500,019	19	0.0000010

Table 7-44. Frequency Stability Data (Band 25)

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-A1976	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25 Frequency Stability Measurements

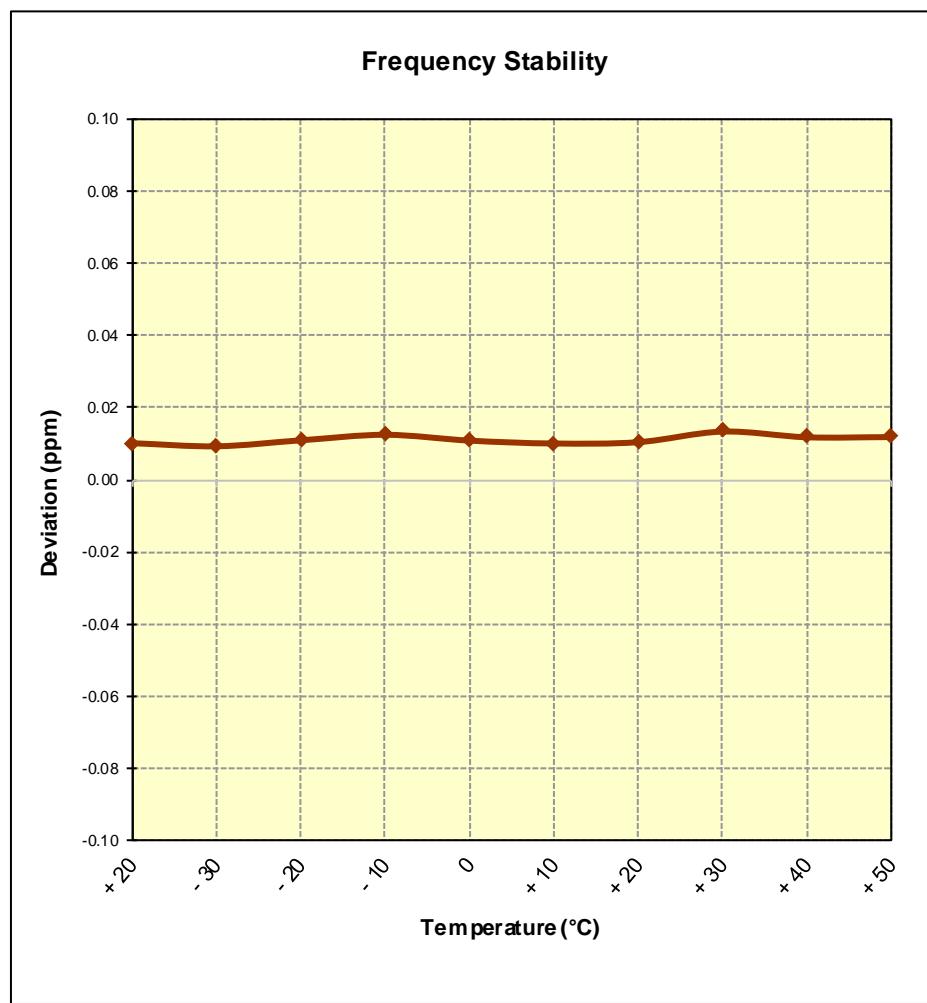


Figure 7-13. Frequency Stability Graph (Band 25)

FCC ID: BCG-A1976	 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	+ 20	2,593,000,034	34	0.0000013
100 %		- 30	2,593,000,032	32	0.0000012
100 %		- 20	2,593,000,027	27	0.0000011
100 %		- 10	2,593,000,031	31	0.0000012
100 %		0	2,593,000,031	31	0.0000012
100 %		+ 10	2,593,000,032	32	0.0000012
100 %		+ 20	2,593,000,034	34	0.0000013
100 %		+ 30	2,593,000,032	32	0.0000012
100 %		+ 40	2,593,000,033	33	0.0000013
100 %		+ 50	2,593,000,029	29	0.0000011
BATT. ENDPOINT	3.40	+ 20	2,593,000,035	35	0.0000014

Table 7-45. Frequency Stability Data (Band 41)

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 41 Frequency Stability Measurements

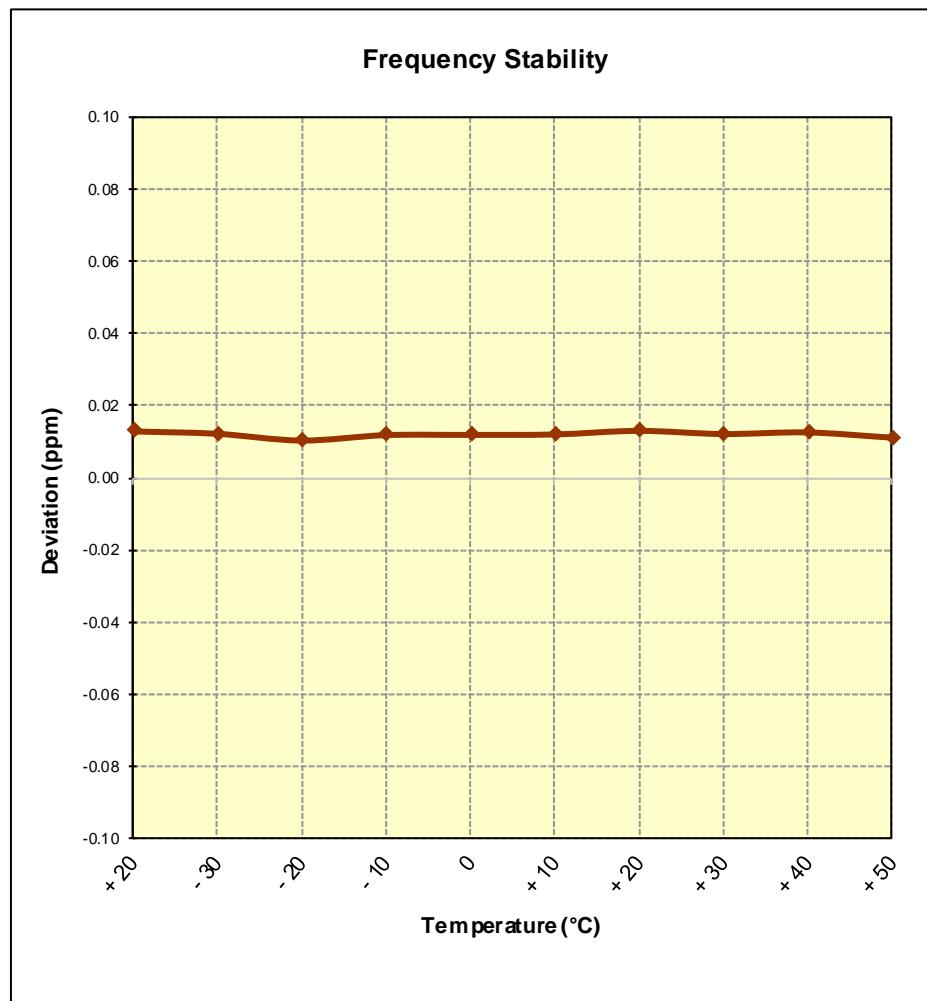


Figure 7-14. Frequency Stability Graph (Band 41)

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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-A1976** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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