

Plot 7-395. PAR Plot (Band 25 – 20.0MHz 16-QAM – RB Size 100)



Plot 7-396. PAR Plot (Band 25 – 20.0MHz 64-QAM – RB Size 100)

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7.6 Additional Maximum Power Reduction (A-MPR)

§2.1046

Test Overview

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

Test Procedure Used

KDB 971168 D01 v03

Test Setup

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



Figure 7-5. Conducted Power Measurement Setup

Test Notes

None.

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Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	Modulation	RB Size	RB Offset	MPR [dB]	A-MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]
1	01	312	530	5	39675	2498.5	QPSK	1	0	0	≤ 3	27.63	23.7	3.93
2							16-QAM			≤ 1		27.17	22.7	4.47
3							64-QAM			≤ 2		26.20	21.7	4.50
4				10	39700	2501	QPSK	1	9	0	0	27.68	26.7	0.98
5							16-QAM			≤ 1		27.21	25.7	1.51
6							64-QAM			≤ 2		26.18	24.7	1.48
7				10	39700	2501	QPSK	20	0	0	≤ 2	27.80	21.7	6.10
8							16-QAM			≤ 1		27.11	20.7	6.41
9							64-QAM			≤ 2		26.29	19.7	6.59
10				15	39725	2503.5	QPSK	50	0	0	≤ 3	26.60	23.7	2.90
11							16-QAM			≤ 1		25.70	22.7	3.00
12							64-QAM			≤ 2		24.08	21.7	2.38
13				15	39725	2503.5	QPSK	25	20	0	≤ 1	25.94	22.7	3.24
14							16-QAM			≤ 1		25.09	21.7	3.39
15							64-QAM			≤ 2		24.36	20.7	3.66
16				15	39725	2503.5	QPSK	10	0	0	≤ 2	26.16	24.7	1.46
17							16-QAM			≤ 1		25.39	23.7	1.69
18							64-QAM			≤ 2		24.70	22.7	2.00
19				20	39750	2506	QPSK	1	36	0	0	27.75	26.7	1.05
20							16-QAM			≤ 1		27.27	25.7	1.57
21							64-QAM			≤ 2		24.91	24.7	0.21
22				20	39750	2506	QPSK	1	0	0	≤ 5	27.74	21.7	6.04
23							16-QAM			≤ 1		27.12	20.7	6.42
24							64-QAM			≤ 2		26.16	19.7	6.46
25				20	39750	2506	QPSK	20	0	0	≤ 2	26.65	23.7	2.95
26							16-QAM			≤ 1		25.78	22.7	3.08
27							64-QAM			≤ 2		24.15	21.7	2.45
28				20	39750	2506	QPSK	75	0	0	≤ 4	26.42	21.7	4.72
29							16-QAM			≤ 1		25.75	20.7	5.05
30							64-QAM			≤ 2		24.74	19.7	5.04
31				20	39750	2506	QPSK	50	15	0	≤ 3	26.70	22.7	4.00
32							16-QAM			≤ 1		25.84	21.7	4.14
33							64-QAM			≤ 2		24.85	20.7	4.15
34				20	39750	2506	QPSK	1	60	0	0	27.91	26.7	1.21
35							16-QAM			≤ 1		27.36	25.7	1.66
36							64-QAM			≤ 2		26.32	24.7	1.62
37				20	39750	2506	QPSK	1	0	0	≤ 5	27.76	21.7	6.06
38							16-QAM			≤ 1		27.12	20.7	6.42
39							64-QAM			≤ 2		26.30	19.7	6.60
40				20	39750	2506	QPSK	20	0	0	≤ 2	26.82	23.7	3.12
41							16-QAM			≤ 1		25.81	22.7	3.11
42							64-QAM			≤ 2		24.34	21.7	2.64
43				20	39750	2506	QPSK	100	0	0	≤ 4	26.87	21.7	5.17
44							16-QAM			≤ 1		25.88	20.7	5.18
45							64-QAM			≤ 2		24.87	19.7	5.17
46				20	39750	2506	QPSK	75	24	0	≤ 3	26.87	22.7	4.17
47							16-QAM			≤ 1		25.92	21.7	4.22
48							64-QAM			≤ 2		24.90	20.7	4.20
49				20	39750	2506	QPSK	1	77	0	0	27.64	26.7	0.94
50							16-QAM			≤ 1		27.36	25.7	1.66
51							64-QAM			≤ 2		26.37	24.7	1.67
52				5	39675	2498.5	QPSK	1	0	0	≤ 3	27.70	23.7	4.00
53							16-QAM			≤ 1		27.19	22.7	4.49
54							64-QAM			≤ 2		26.34	21.7	4.64
55				5	39675	2498.5	QPSK	1	0	0	0	27.72	26.7	1.02
56							16-QAM			≤ 1		27.21	25.7	1.51
57							64-QAM			≤ 2		26.21	24.7	1.51

Table 7-7. A-MPR Conducted Power Measurements

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7.7 Uplink Carrier Aggregation

§27.53(m)

Test Overview

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

For Band 5, the minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is $55 + \log_{10}(P_{[Watts]})$.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

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

Test Setup

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

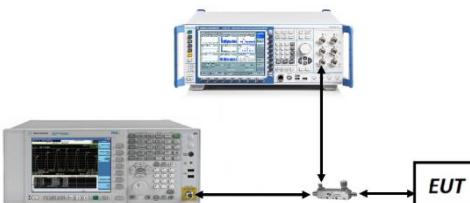


Figure 7-6. Test Instrument & Measurement Setup

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Test Notes

1. Uplink carrier aggregation is supported in this EUT while operating in Power Class 2 and Power Class 3.
2. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation, as shown in Table 7-3 to 7-18 below, with both carriers set to transmit using 1RB.
3. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.
4. All possible configurations and ports were tested and only the worst case data were reported.
5. Refer to Table 2-3 Section 2.3 of this test report for correlation between Antennas and Ports.

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Port-A

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	1	49	LTE B5	10	20899	838.9	QPSK	1	0	25.00
Max	LTE B5	10	20525	836.5	QPSK	1	49	LTE B5	5	20947	843.7	QPSK	1	0	24.96
Max	LTE B5	10	20600	844	QPSK	1	0	LTE B5	10	20851	834.1	QPSK	1	49	24.94

Table 7-8. Conducted Powers (B5 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	50	0	LTE B5	10	20549	838.9	QPSK	50	0	22.86
Max	LTE B5	10	20450	829	16-QAM	50	0	LTE B5	10	20549	838.9	16-QAM	50	0	21.88
Max	LTE B5	10	20450	829	64-QAM	50	0	LTE B5	10	20549	838.9	64-QAM	50	0	21.87

Table 7-9. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	24.97
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	24.72
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	24.75

Table 7-10. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	23.00
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	21.94
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	21.90

Table 7-11. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	27.00
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	26.89
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	26.76

Table 7-12. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	24.86
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	23.76
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	23.76

Table 7-13. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.86
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.74
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.88

Table 7-14. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	22.87
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	21.74
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	21.70

Table 7-15. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Port-B

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	1	49	LTE B5	10	20899	838.9	QPSK	1	0	23.50
Max	LTE B5	10	20525	836.5	QPSK	1	49	LTE B5	5	20947	843.7	QPSK	1	0	23.46
Max	LTE B5	10	20600	844	QPSK	1	0	LTE B5	10	20851	834.1	QPSK	1	49	23.48

Table 7-16. Conducted Powers (B5 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	50	0	LTE B5	10	20549	838.9	QPSK	50	0	21.37
Max	LTE B5	10	20450	829	16-QAM	50	0	LTE B5	10	20549	838.9	16-QAM	50	0	20.46
Max	LTE B5	10	20450	829	64-QAM	50	0	LTE B5	10	20549	838.9	64-QAM	50	0	20.45

Table 7-17. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	21.49
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	21.46
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	21.48

Table 7-18. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	19.25
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	18.29
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	18.25

Table 7-19. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)							Approved by: Quality Manager	
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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	23.47
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	23.33
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	23.45

Table 7-20. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	21.35
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	20.38
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	20.37

Table 7-21. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	21.48
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	21.38
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	21.21

Table 7-22. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	19.40
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	18.34
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	18.36

Table 7-23. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	24.44
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	24.47
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	24.44

Table 7-24. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	22.46
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	21.47
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	21.45

Table 7-25. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	26.41
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	26.33
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	26.31

Table 7-26. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	24.39
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	23.41
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	23.41

Table 7-27. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.50
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.37
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.46

Table 7-28. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	22.43
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	21.42
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	21.39

Table 7-29. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)										Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device										Page 238 of 398

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Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	22.00
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	21.97
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	21.92

Table 7-30. Conducted Powers (B7 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	19.78
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	18.76
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	18.72

Table 7-31. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	22.46
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	22.21
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	22.25

Table 7-32. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	20.50
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	19.48
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	19.45

Table 7-33. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	21.00
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	20.73
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	20.78

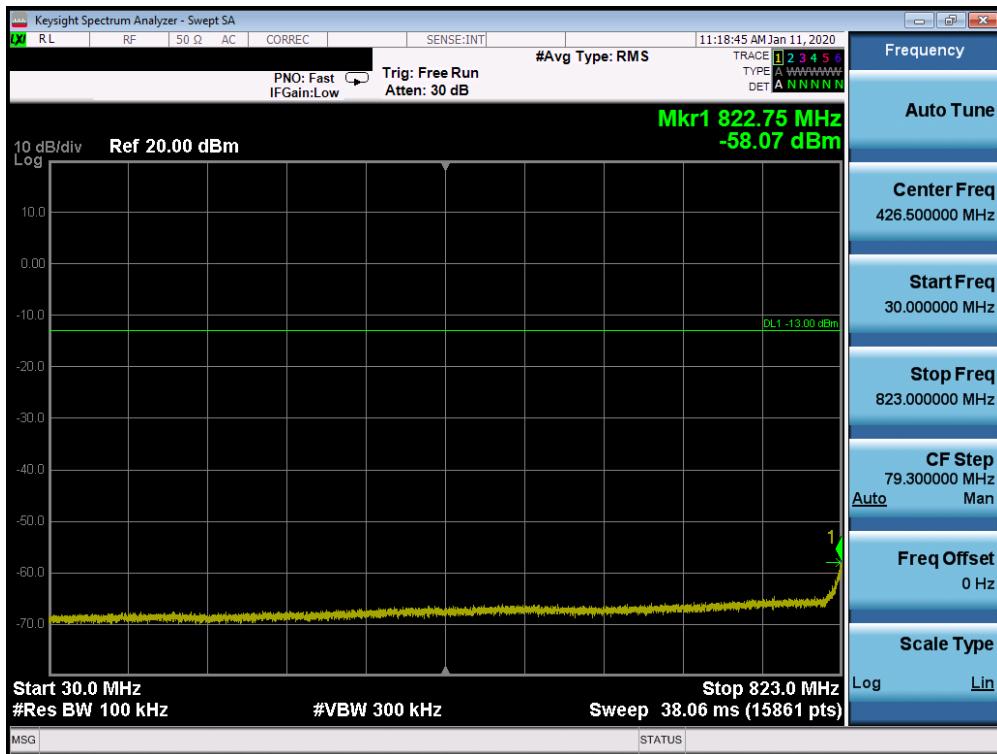
Table 7-34. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	18.84
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	17.94
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	17.92

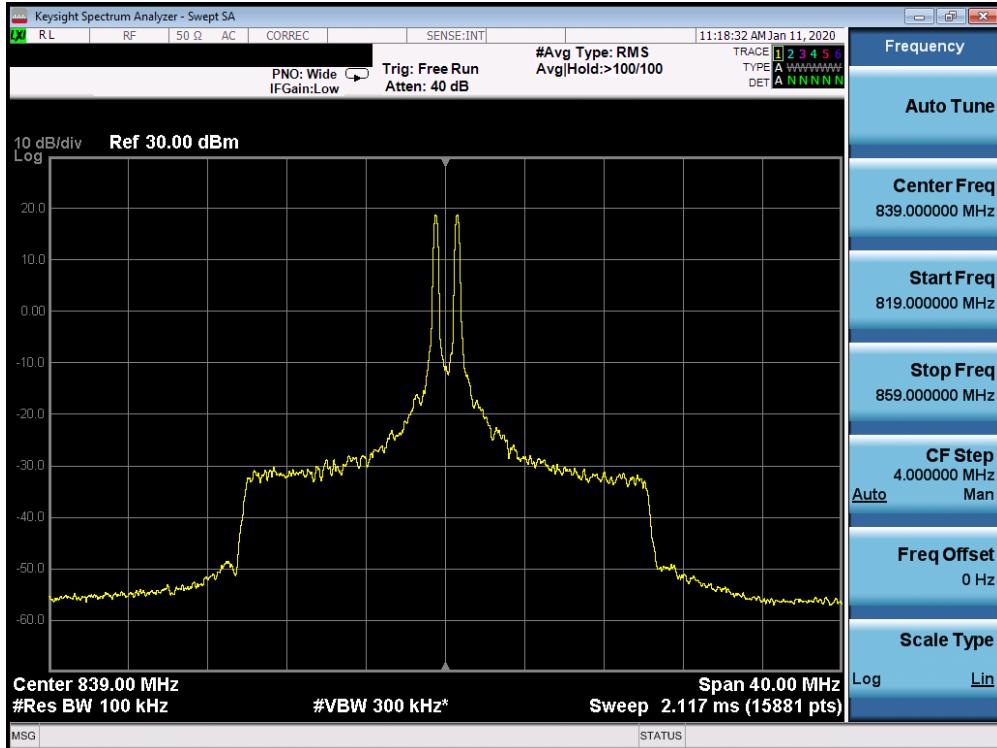
Table 7-35. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)										Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device										Page 239 of 398

Band 5

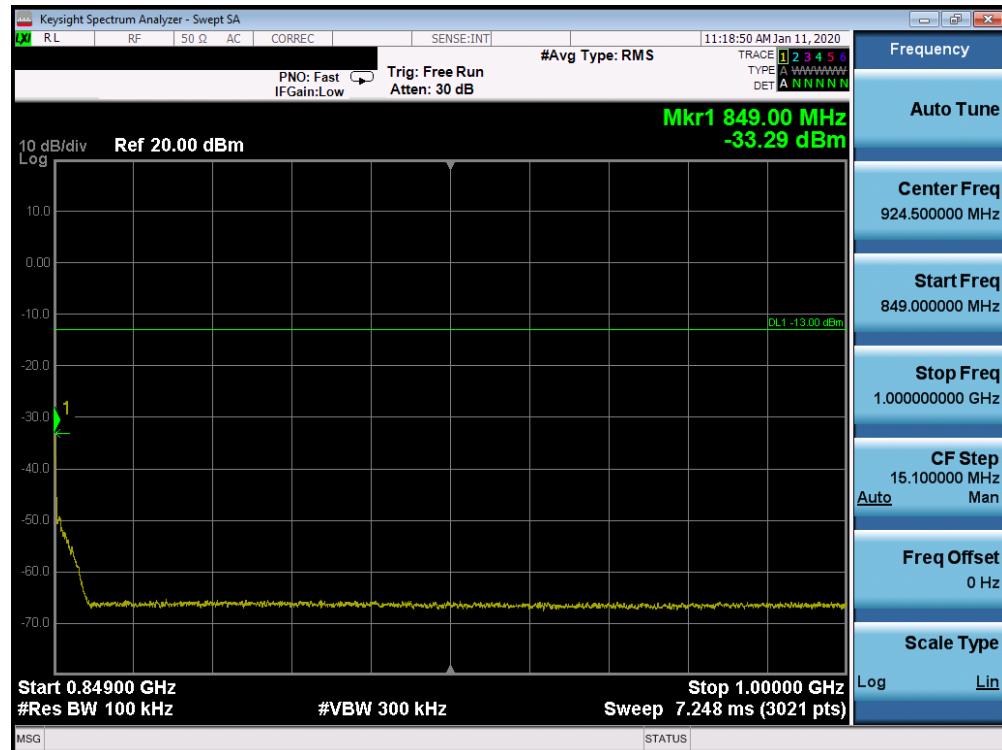


Plot 7-397. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

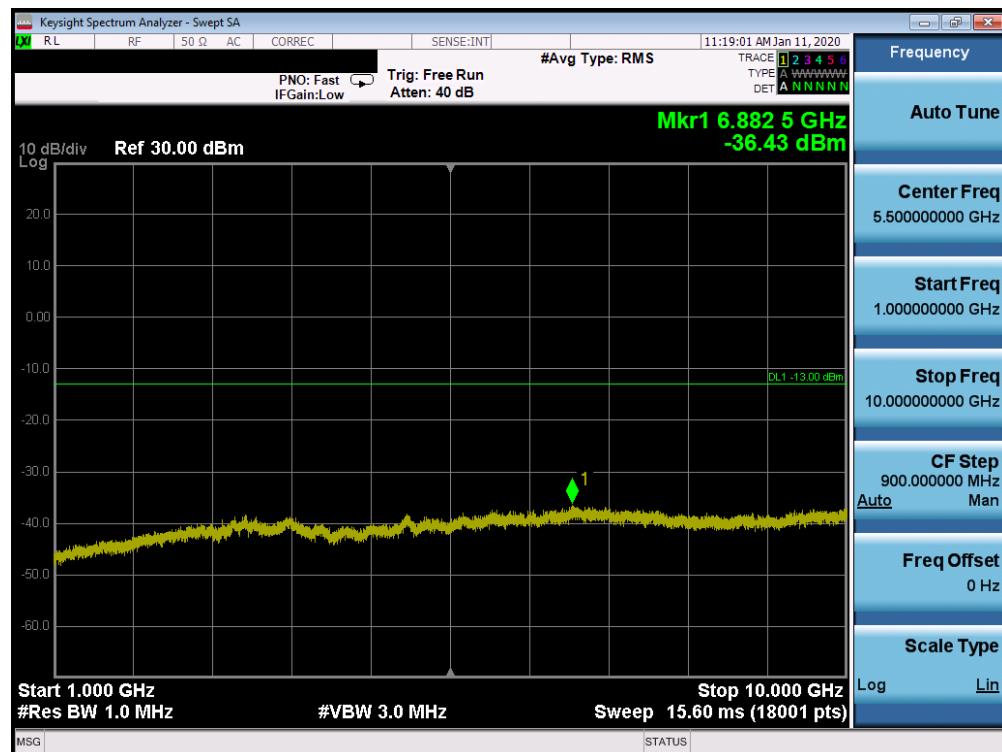


Plot 7-398. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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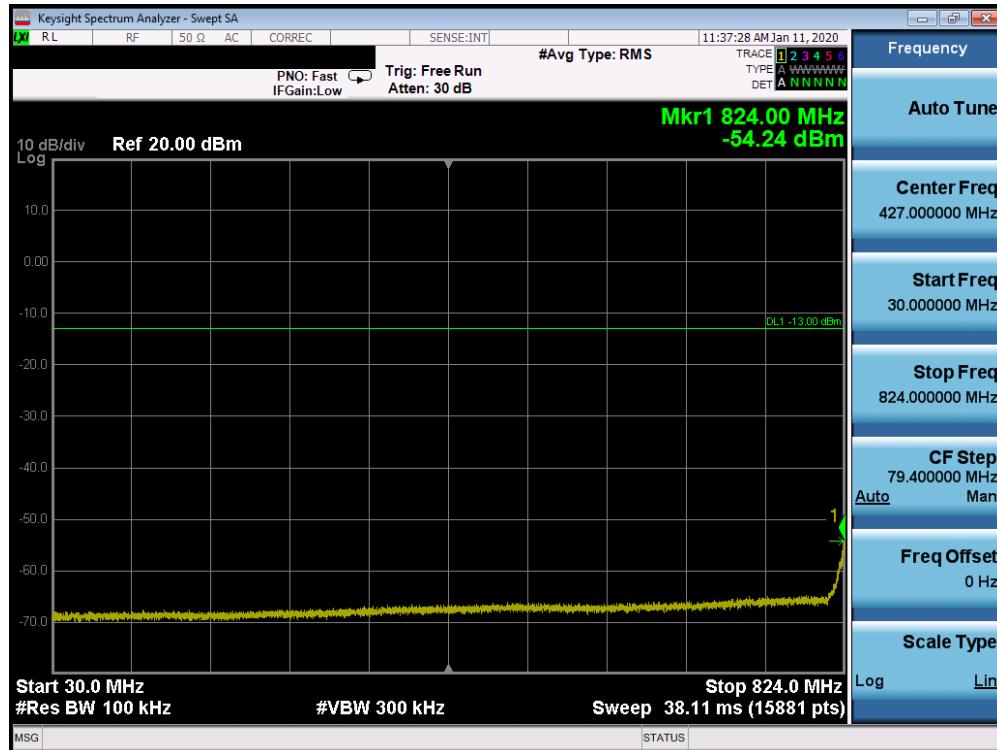


Plot 7-399. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

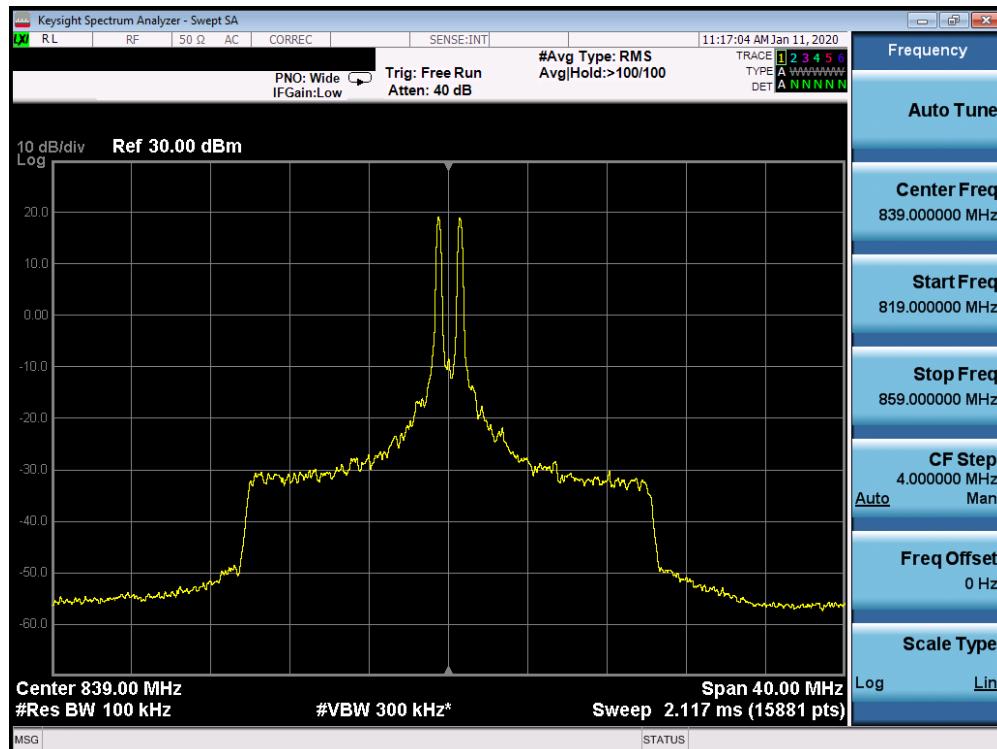


Plot 7-400. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

FCC ID: BCGA2230	 PCTEST		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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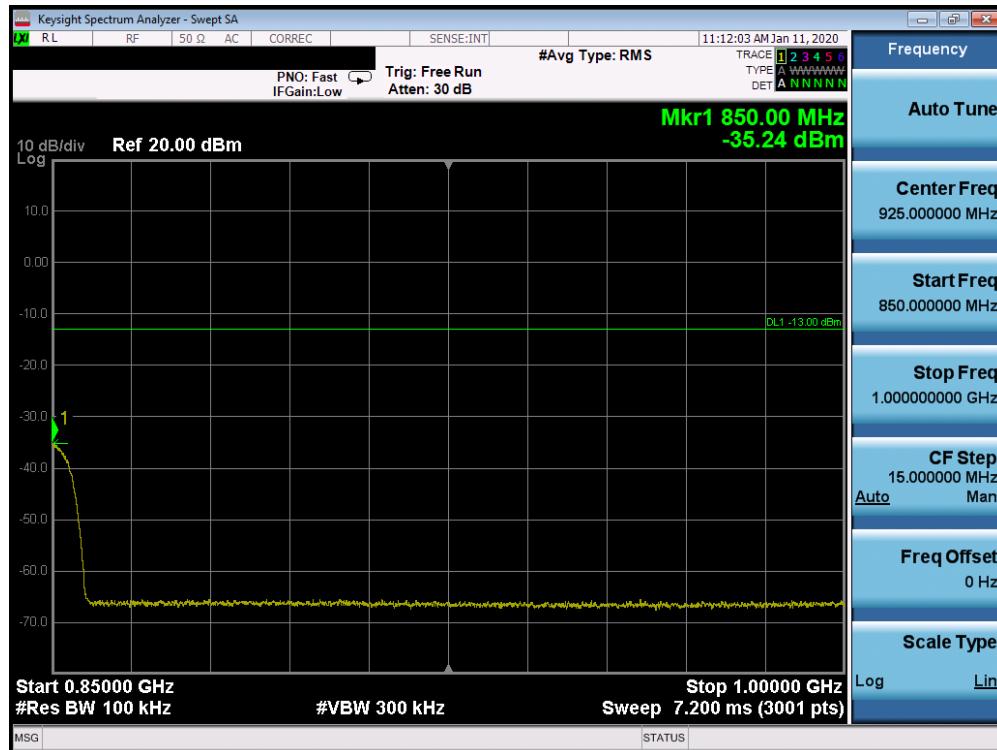


Plot 7-401. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)

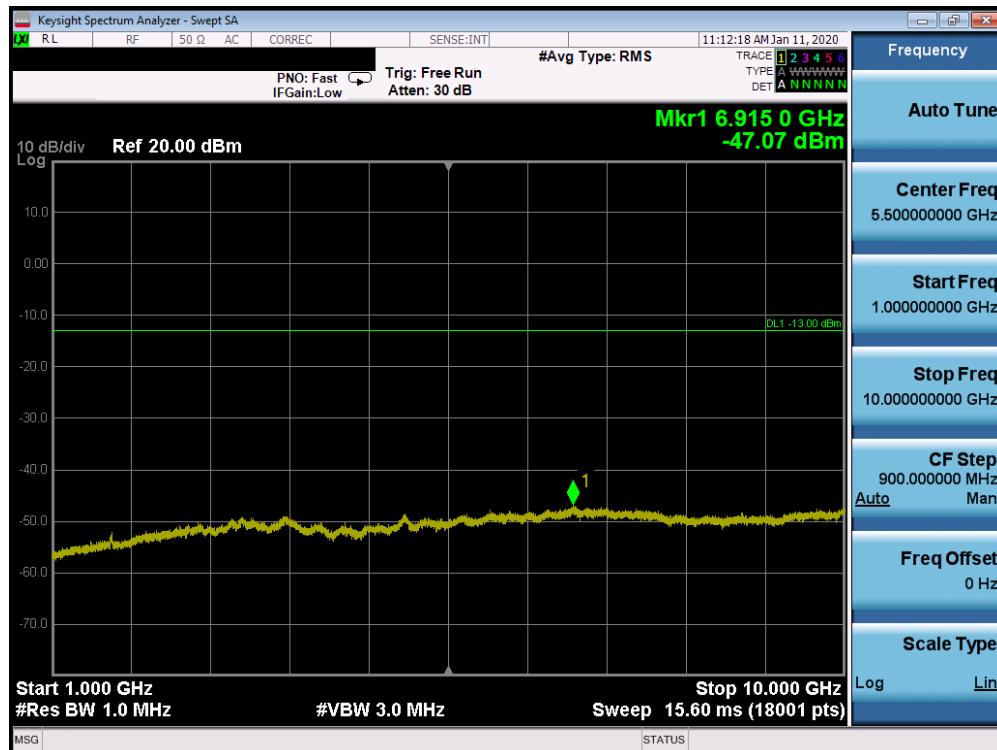


Plot 7-402. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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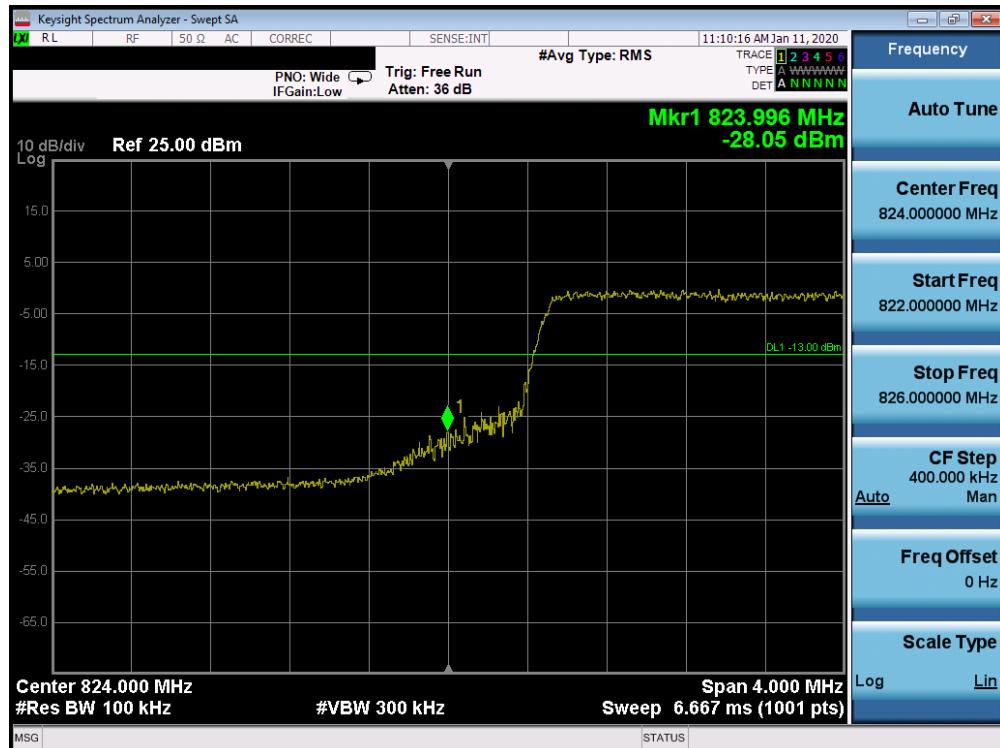


Plot 7-403. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)



Plot 7-404. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – High Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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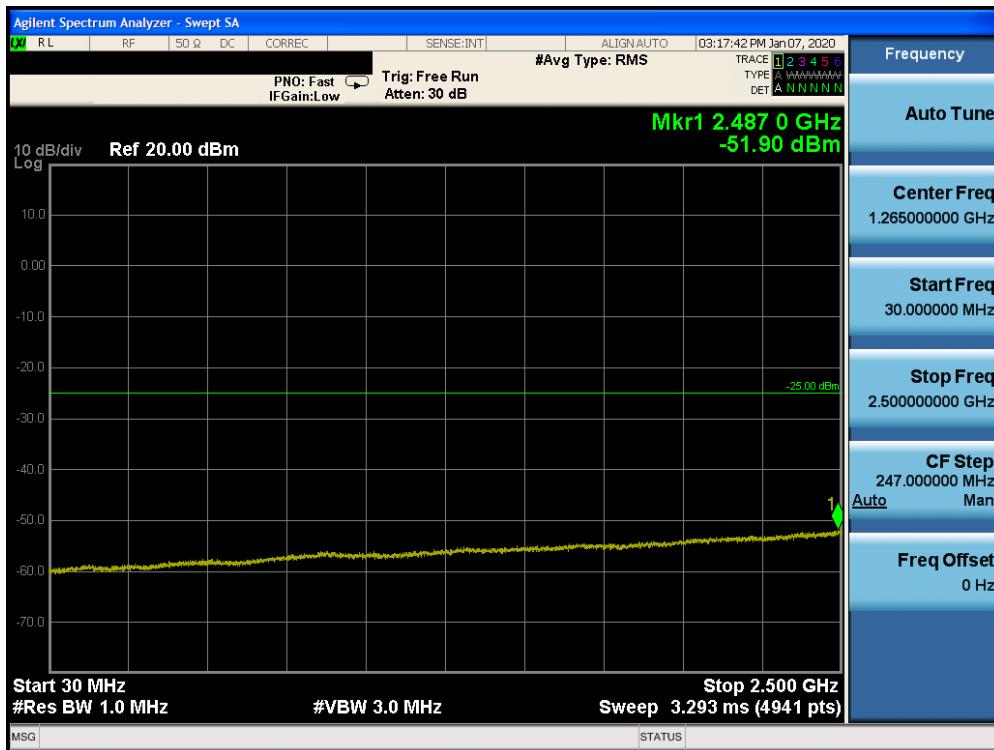
Plot 7-405. Lower ACP Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)



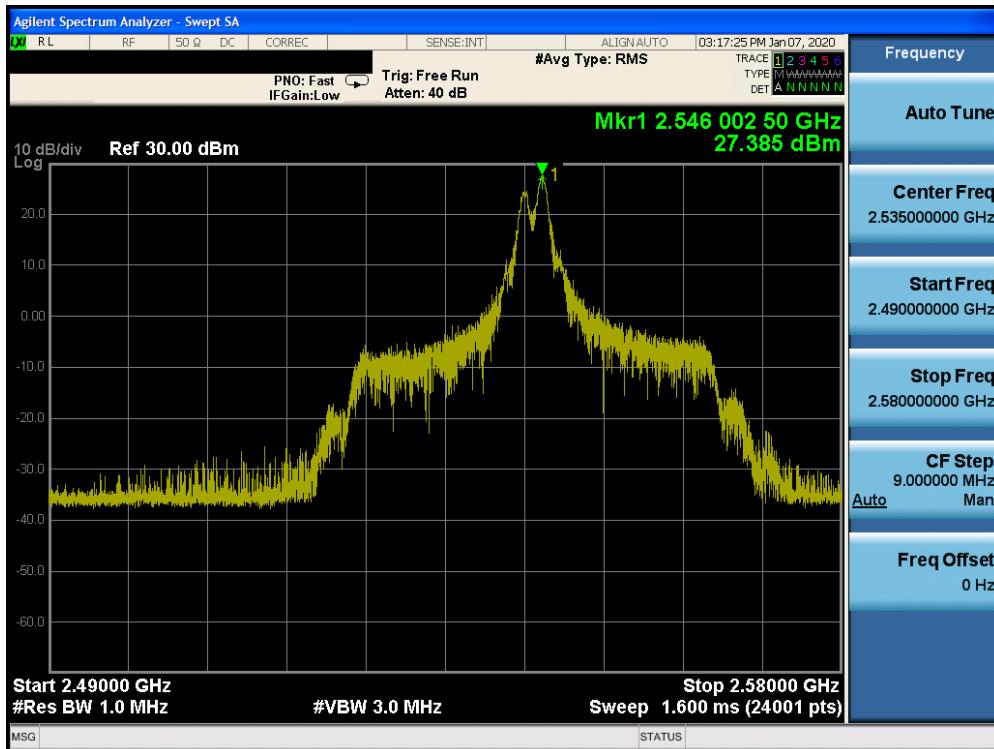
Plot 7-406. Upper ACP Plot (Band 5 QPSK – PCC:10 MHz SCC:10 MHz – Full RB)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Band 7

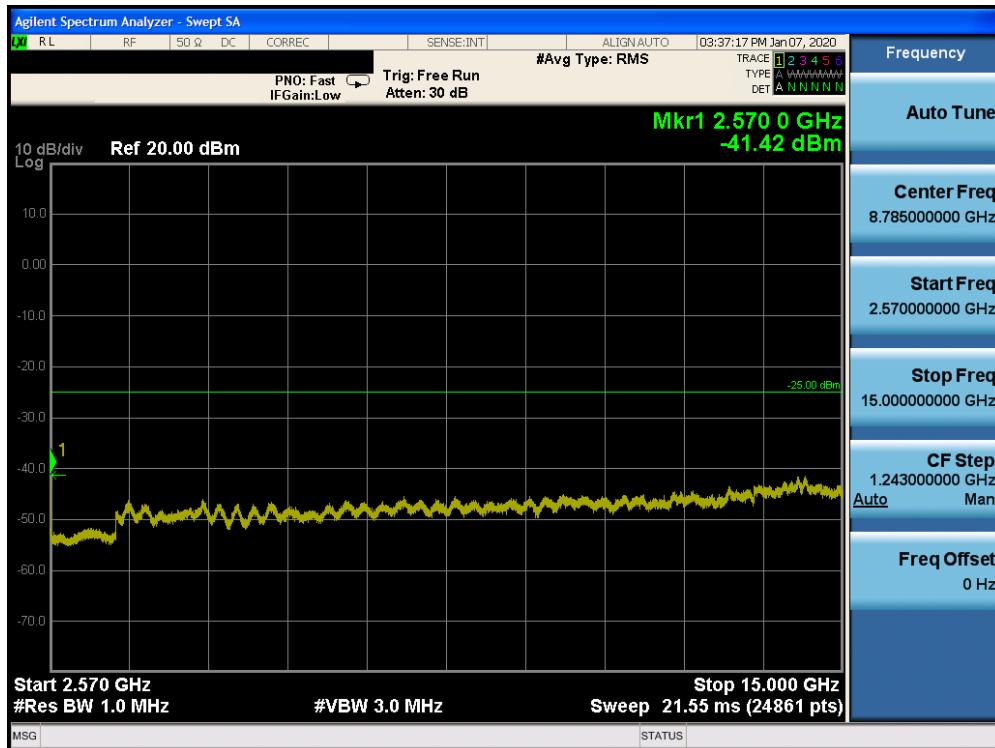


Plot 7-407. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

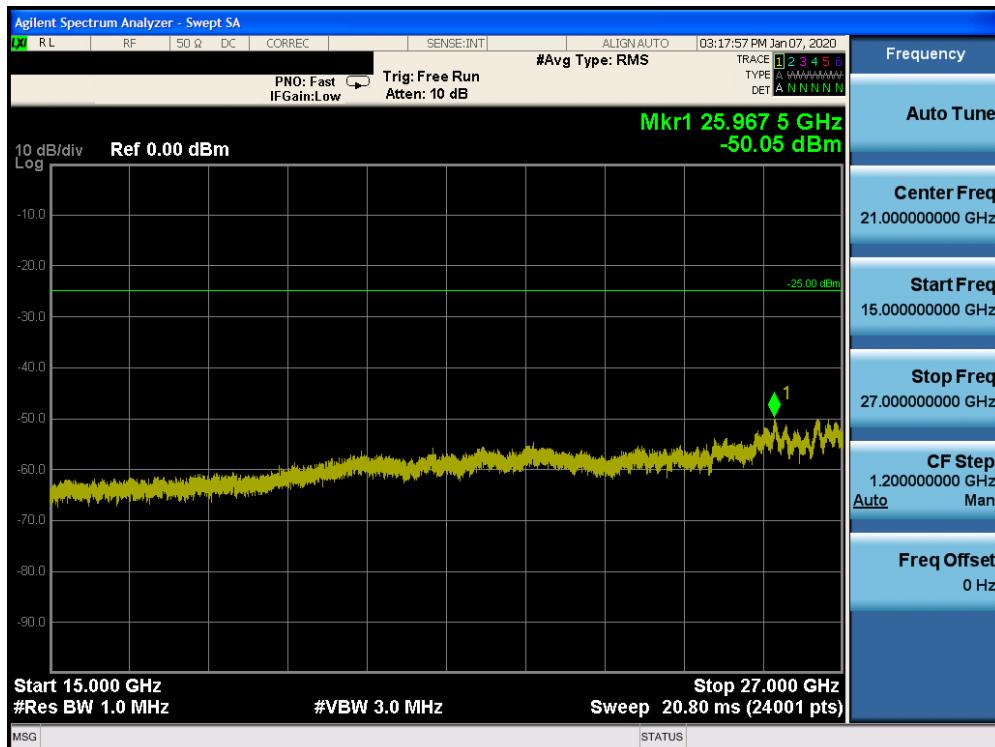


Plot 7-408. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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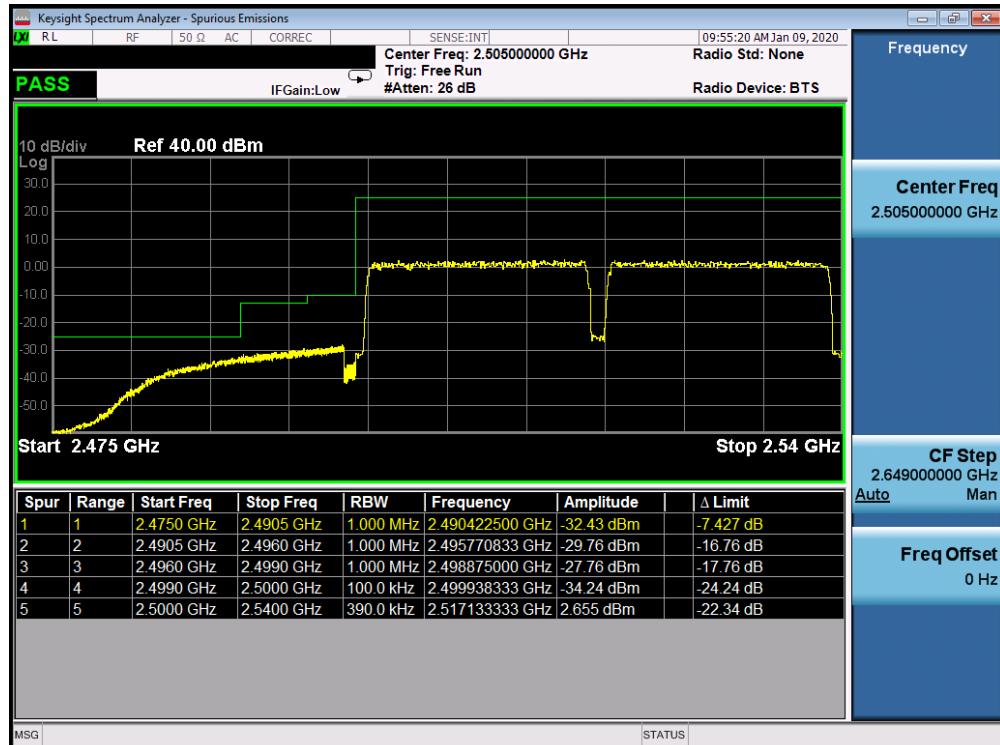


Plot 7-409. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-410. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2230	 PCTEST		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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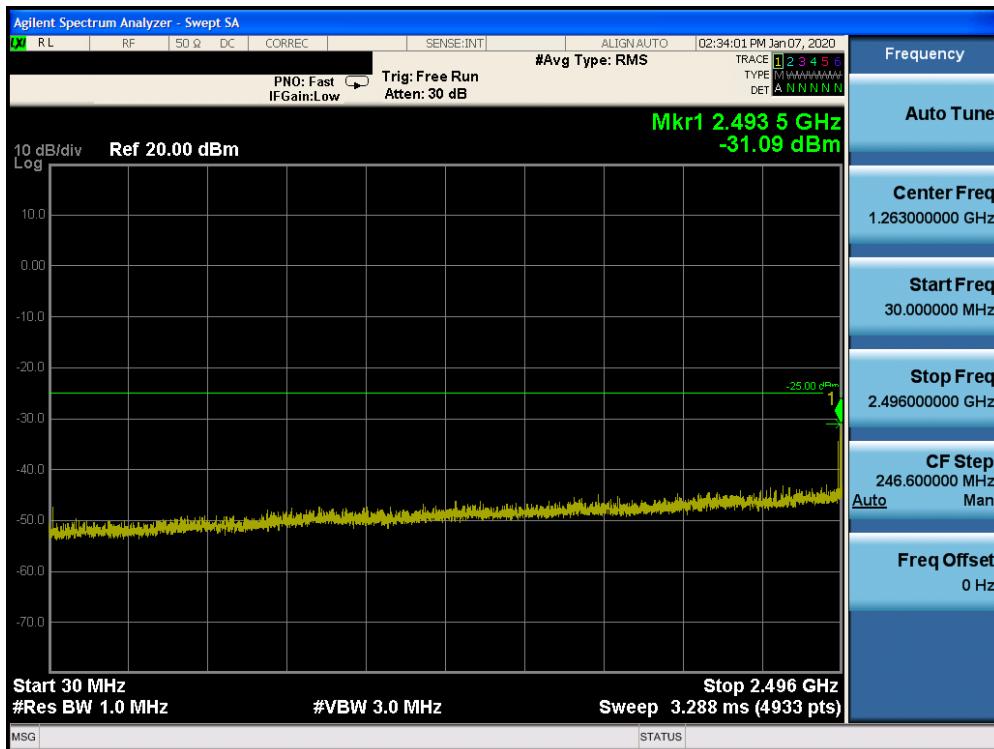
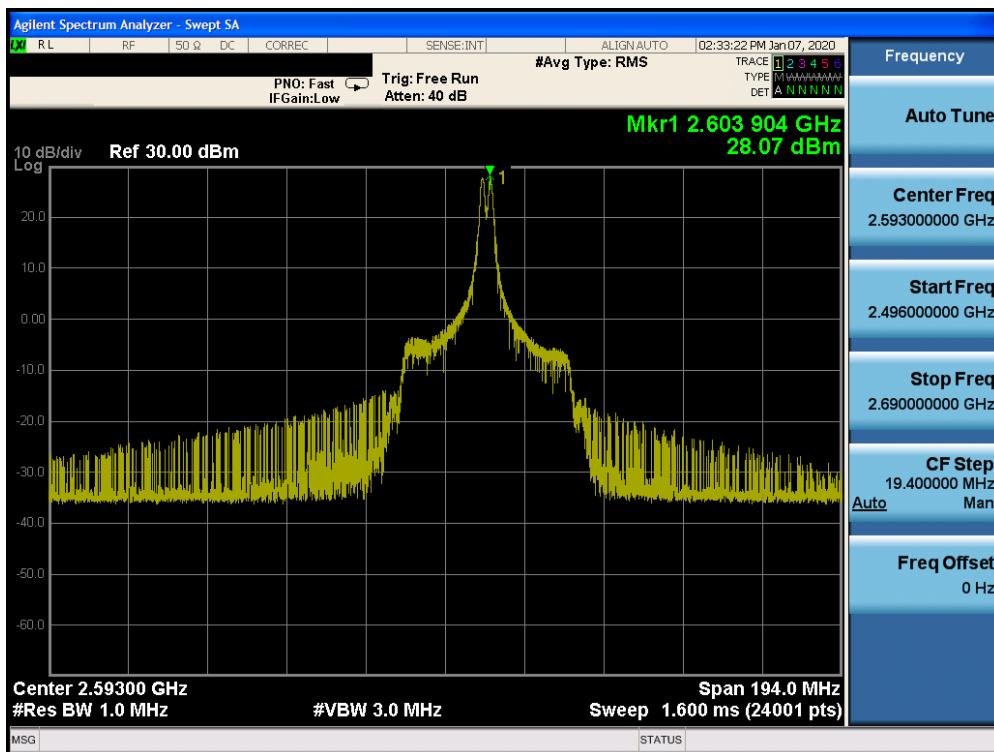


Plot 7-411. Lower ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

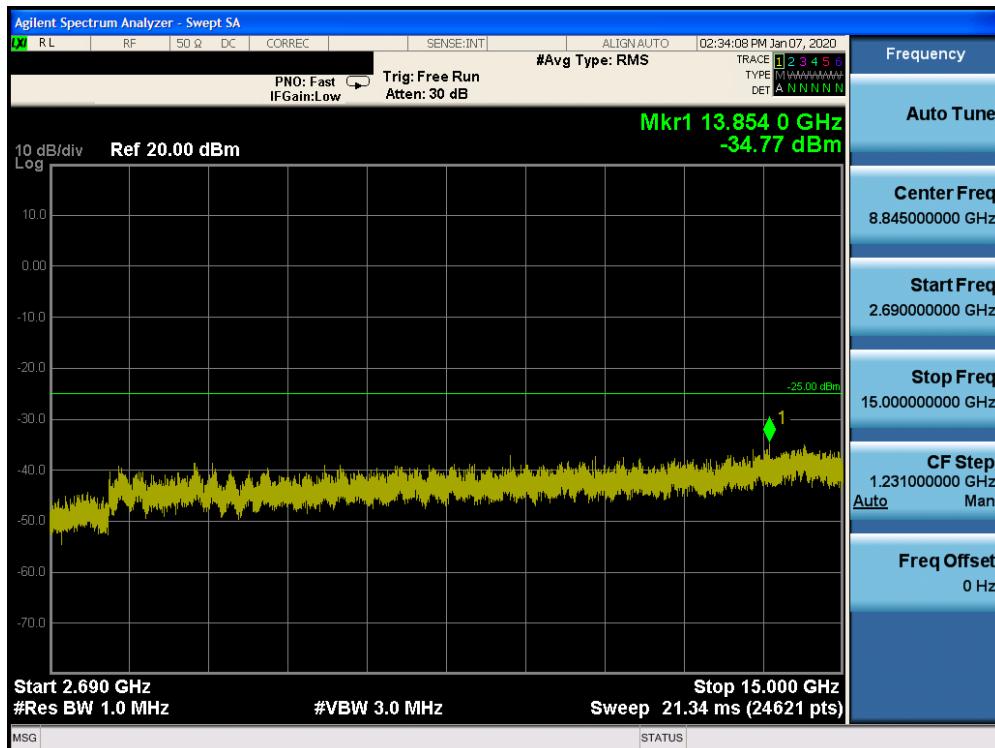


Plot 7-412. Upper ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

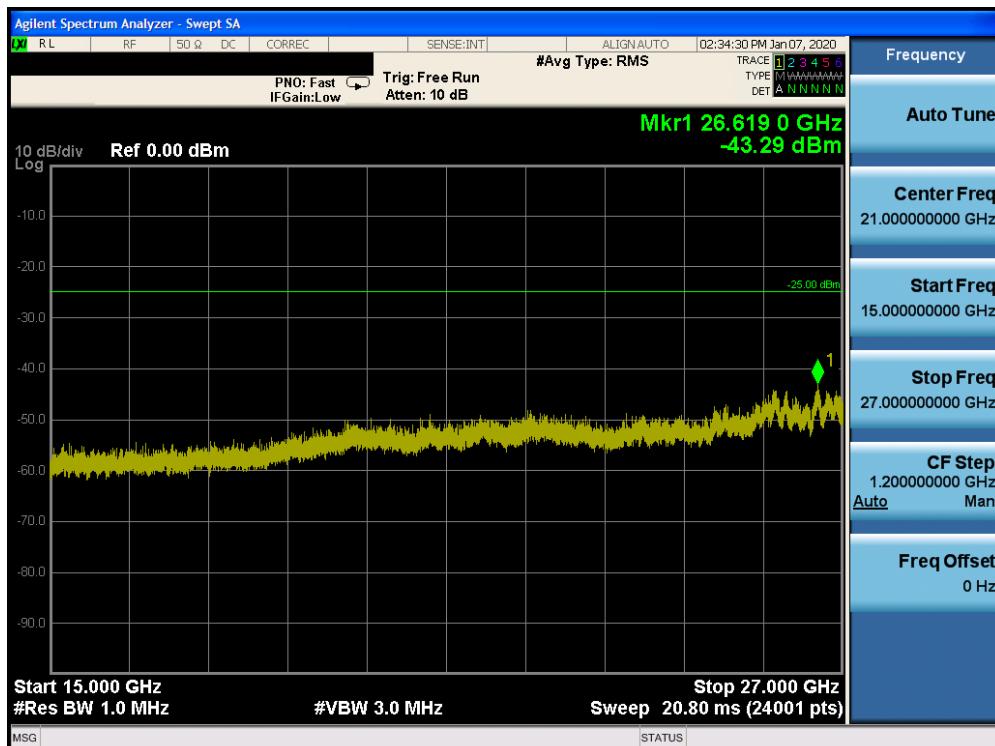
FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 247 of 398


Plot 7-413. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

Plot 7-414. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2230	 PCTEST		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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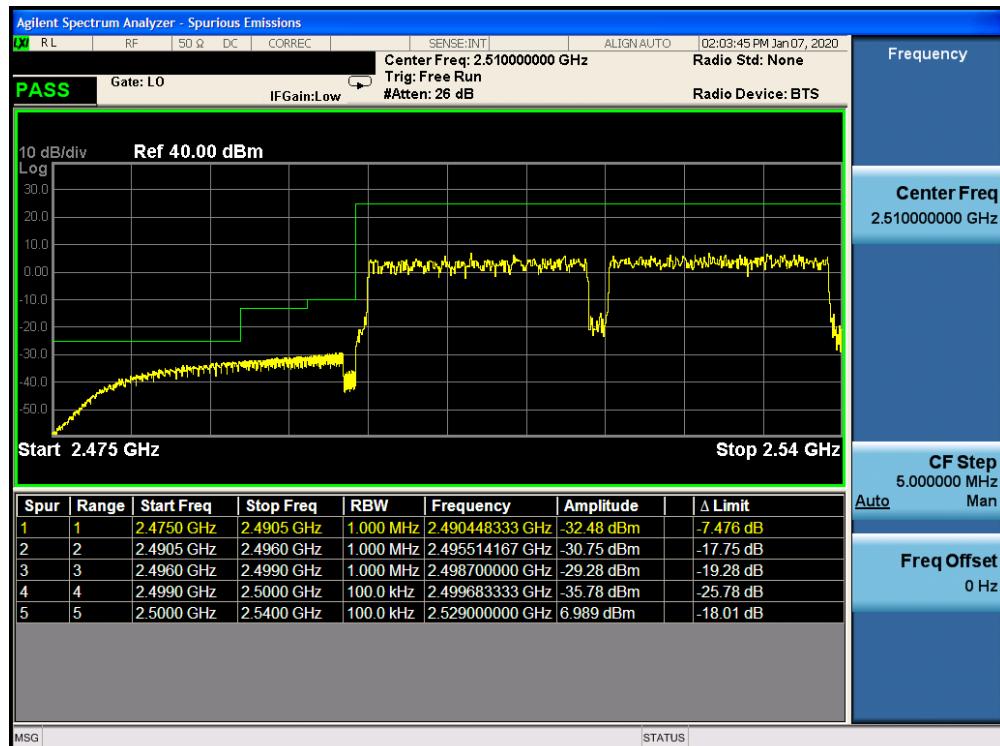


Plot 7-415. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-416. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-417. Lower ACP Plot (41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)



Plot 7-418. Upper ACP Plot (41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

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7.8 Radiated Power (ERP/EIRP)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

Test Settings

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

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

Where:

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

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

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

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

Test Setup

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



Figure 7-7. ERP/EIRP Measurement Setup

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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.
- 5) Refer to Table 2-3 Section 2.3 of this test report for correlation between Antennas and Ports.

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7.8.1 Port-A Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 5	25.48	-1.20	22.13	0.163	34.77	-12.64	24.28	0.268	36.99	-12.71
707.50	1.4	QPSK	1 / 5	25.28	-1.20	21.93	0.156	34.77	-12.84	24.08	0.256	36.99	-12.91
715.30	1.4	QPSK	1 / 0	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
715.30	1.4	16-QAM	1 / 0	24.89	-1.20	21.54	0.143	34.77	-13.23	23.69	0.234	36.99	-13.30
715.30	1.4	64-QAM	1 / 5	23.96	-1.20	20.61	0.115	34.77	-14.16	22.76	0.189	36.99	-14.23
700.50	3	QPSK	1 / 14	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
707.50	3	QPSK	1 / 14	25.46	-1.20	22.11	0.163	34.77	-12.66	24.26	0.267	36.99	-12.73
714.50	3	QPSK	1 / 0	25.66	-1.20	22.31	0.170	34.77	-12.46	24.46	0.279	36.99	-12.53
700.50	3	16-QAM	1 / 14	24.94	-1.20	21.59	0.144	34.77	-13.18	23.74	0.237	36.99	-13.25
700.50	3	64-QAM	1 / 7	23.95	-1.20	20.60	0.115	34.77	-14.17	22.75	0.188	36.99	-14.24
701.50	5	QPSK	1 / 12	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
707.50	5	QPSK	1 / 24	25.67	-1.20	22.32	0.171	34.77	-12.45	24.47	0.280	36.99	-12.52
713.50	5	QPSK	1 / 0	25.66	-1.20	22.31	0.170	34.77	-12.46	24.46	0.279	36.99	-12.53
701.50	5	16-QAM	1 / 12	24.98	-1.20	21.63	0.146	34.77	-13.14	23.78	0.239	36.99	-13.21
701.50	5	64-QAM	1 / 12	23.82	-1.20	20.47	0.111	34.77	-14.30	22.62	0.183	36.99	-14.37
704.00	10	QPSK	1 / 0	25.59	-1.20	22.24	0.167	34.77	-12.53	24.39	0.275	36.99	-12.60
707.50	10	QPSK	1 / 49	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
711.00	10	QPSK	1 / 25	25.68	-1.20	22.33	0.171	34.77	-12.44	24.48	0.281	36.99	-12.51
707.50	10	16-QAM	1 / 49	24.98	-1.20	21.63	0.146	34.77	-13.14	23.78	0.239	36.99	-13.21
707.50	10	64-QAM	1 / 49	24.11	-1.20	20.76	0.119	34.77	-14.01	22.91	0.195	36.99	-14.08

Table 7-36. ERP Data (Band 12)

FCC ID: BCGA2230	PCTEST MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device				Page 253 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	25.40	-1.20	22.05	0.160	34.77	-12.72	24.20	0.263	36.99	-12.79
710.00	5	QPSK	1 / 24	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
713.50	5	QPSK	1 / 0	25.50	-1.20	22.15	0.164	34.77	-12.62	24.30	0.269	36.99	-12.69
710.00	5	16-QAM	1 / 24	24.86	-1.20	21.51	0.142	34.77	-13.26	23.66	0.232	36.99	-13.33
710.00	5	64-QAM	1 / 24	23.98	-1.20	20.63	0.116	34.77	-14.14	22.78	0.190	36.99	-14.21
709.00	10	QPSK	1 / 49	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
710.00	10	QPSK	1 / 49	25.65	-1.20	22.30	0.170	34.77	-12.47	24.45	0.279	36.99	-12.54
711.00	10	QPSK	1 / 49	25.69	-1.20	22.34	0.171	34.77	-12.43	24.49	0.281	36.99	-12.50
709.00	10	16-QAM	1 / 49	24.96	-1.20	21.61	0.145	34.77	-13.16	23.76	0.238	36.99	-13.23
709.00	10	64-QAM	1 / 49	24.00	-1.20	20.65	0.116	34.77	-14.12	22.80	0.191	36.99	-14.19

Table 7-37. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	25.65	-1.20	22.30	0.170	34.77	-12.47	24.45	0.279	36.99	-12.54
782.00	5	QPSK	1 / 12	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
784.50	5	QPSK	1 / 0	25.47	-1.20	22.12	0.163	34.77	-12.65	24.27	0.267	36.99	-12.72
782.00	5	16-QAM	1 / 12	24.91	-1.20	21.56	0.143	34.77	-13.21	23.71	0.235	36.99	-13.28
782.00	5	64-QAM	1 / 12	23.87	-1.20	20.52	0.113	34.77	-14.25	22.67	0.185	36.99	-14.32
782.00	10	QPSK	1 / 25	25.70	-1.20	22.35	0.172	34.77	-12.42	24.50	0.282	36.99	-12.49
782.00	10	16-QAM	1 / 25	24.89	-1.20	21.54	0.143	34.77	-13.23	23.69	0.234	36.99	-13.30
782.00	10	64-QAM	1 / 0	24.04	-1.20	20.69	0.117	34.77	-14.08	22.84	0.192	36.99	-14.15

Table 7-38. ERP Data (Band 13)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device				Page 254 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 2	25.67	-0.70	22.82	0.191	38.45	-15.63	24.97	0.314	40.61	-15.64
836.50	1.4	QPSK	1 / 0	25.46	-0.70	22.61	0.182	38.45	-15.84	24.76	0.299	40.61	-15.85
848.30	1.4	QPSK	1 / 0	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
848.30	1.4	16-QAM	1 / 5	24.93	-0.70	22.08	0.161	38.45	-16.37	24.23	0.265	40.61	-16.38
848.30	1.4	64-QAM	1 / 0	23.82	-0.70	20.97	0.125	38.45	-17.48	23.12	0.205	40.61	-17.49
825.50	3	QPSK	1 / 0	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
836.50	3	QPSK	1 / 7	25.58	-0.70	22.73	0.187	38.45	-15.72	24.88	0.308	40.61	-15.73
847.50	3	QPSK	1 / 0	25.58	-0.70	22.73	0.187	38.45	-15.72	24.88	0.308	40.61	-15.73
825.50	3	16-QAM	1 / 7	24.90	-0.70	22.05	0.160	38.45	-16.40	24.20	0.263	40.61	-16.41
825.50	3	64-QAM	1 / 0	24.04	-0.70	21.19	0.132	38.45	-17.26	23.34	0.216	40.61	-17.27
826.50	5	QPSK	1 / 0	25.67	-0.70	22.82	0.191	38.45	-15.63	24.97	0.314	40.61	-15.64
836.50	5	QPSK	1 / 24	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
846.50	5	QPSK	1 / 0	25.53	-0.70	22.68	0.185	38.45	-15.77	24.83	0.304	40.61	-15.78
836.50	5	16-QAM	1 / 24	24.75	-0.70	21.90	0.155	38.45	-16.55	24.05	0.254	40.61	-16.56
836.50	5	64-QAM	1 / 24	23.82	-0.70	20.97	0.125	38.45	-17.48	23.12	0.205	40.61	-17.49
829.00	10	QPSK	1 / 0	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
836.50	10	QPSK	1 / 25	25.58	-0.70	22.73	0.187	38.45	-15.72	24.88	0.308	40.61	-15.73
844.00	10	QPSK	1 / 0	25.58	-0.70	22.73	0.187	38.45	-15.72	24.88	0.308	40.61	-15.73
829.00	10	16-QAM	1 / 25	24.90	-0.70	22.05	0.160	38.45	-16.40	24.20	0.263	40.61	-16.41
829.00	10	64-QAM	1 / 0	24.04	-0.70	21.19	0.132	38.45	-17.26	23.34	0.216	40.61	-17.27

Table 7-39. ERP Data (Band 5)

FCC ID: BCGA2230	PCTEST® MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 255 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	25.61	-0.70	22.76	0.189	38.45	-15.69	24.91	0.310	40.61	-15.70
836.50	1.4	QPSK	1 / 0	25.39	-0.70	22.54	0.179	38.45	-15.91	24.69	0.294	40.61	-15.92
848.30	1.4	QPSK	1 / 0	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
848.30	1.4	16-QAM	1 / 5	24.91	-0.70	22.06	0.161	38.45	-16.39	24.21	0.264	40.61	-16.40
848.30	1.4	64-QAM	1 / 2	23.86	-0.70	21.01	0.126	38.45	-17.44	23.16	0.207	40.61	-17.45
825.50	3	QPSK	1 / 0	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
836.50	3	QPSK	1 / 7	25.51	-0.70	22.66	0.185	38.45	-15.79	24.81	0.303	40.61	-15.80
847.50	3	QPSK	1 / 7	25.56	-0.70	22.71	0.187	38.45	-15.74	24.86	0.306	40.61	-15.75
825.50	3	16-QAM	1 / 7	24.80	-0.70	21.95	0.157	38.45	-16.50	24.10	0.257	40.61	-16.51
825.50	3	64-QAM	1 / 7	23.83	-0.70	20.98	0.125	38.45	-17.47	23.13	0.206	40.61	-17.48
826.50	5	QPSK	1 / 24	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
836.50	5	QPSK	1 / 0	25.67	-0.70	22.82	0.191	38.45	-15.63	24.97	0.314	40.61	-15.64
846.50	5	QPSK	1 / 24	25.53	-0.70	22.68	0.185	38.45	-15.77	24.83	0.304	40.61	-15.78
826.50	5	16-QAM	1 / 0	24.93	-0.70	22.08	0.161	38.45	-16.37	24.23	0.265	40.61	-16.38
826.50	5	64-QAM	1 / 0	23.85	-0.70	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
829.00	10	QPSK	1 / 0	25.70	-0.70	22.85	0.193	38.45	-15.60	25.00	0.316	40.61	-15.61
836.50	10	QPSK	1 / 0	25.57	-0.70	22.72	0.187	38.45	-15.73	24.87	0.307	40.61	-15.74
844.00	10	QPSK	1 / 0	25.63	-0.70	22.78	0.190	38.45	-15.67	24.93	0.311	40.61	-15.68
829.00	10	16-QAM	1 / 0	24.79	-0.70	21.94	0.156	38.45	-16.51	24.09	0.256	40.61	-16.52
829.00	10	64-QAM	1 / 0	23.81	-0.70	20.96	0.125	38.45	-17.49	23.11	0.205	40.61	-17.50

Table 7-40. ERP Data (Band 26)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device					

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	25.70	-2.20	23.50	0.224	30.00	-6.50
1732.50	1.4	QPSK	1 / 0	25.31	-2.20	23.11	0.205	30.00	-6.89
1754.30	1.4	QPSK	1 / 2	25.63	-2.20	23.43	0.220	30.00	-6.57
1710.70	1.4	16-QAM	1 / 5	24.85	-2.20	22.65	0.184	30.00	-7.35
1710.70	1.4	64-QAM	1 / 5	23.88	-2.20	21.68	0.147	30.00	-8.32
1711.50	3	QPSK	1 / 7	25.70	-2.20	23.50	0.224	30.00	-6.50
1732.50	3	QPSK	1 / 14	25.35	-2.20	23.15	0.207	30.00	-6.85
1753.50	3	QPSK	1 / 7	25.55	-2.20	23.35	0.216	30.00	-6.65
1711.50	3	16-QAM	1 / 7	24.88	-2.20	22.68	0.185	30.00	-7.32
1711.50	3	64-QAM	1 / 7	23.88	-2.20	21.68	0.147	30.00	-8.32
1712.50	5	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1732.50	5	QPSK	1 / 24	25.56	-2.20	23.36	0.217	30.00	-6.64
1752.50	5	QPSK	1 / 12	25.43	-2.20	23.23	0.210	30.00	-6.77
1712.50	5	16-QAM	1 / 12	24.83	-2.20	22.63	0.183	30.00	-7.37
1712.50	5	64-QAM	1 / 0	23.91	-2.20	21.71	0.148	30.00	-8.29
1715.00	10	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1732.50	10	QPSK	1 / 49	25.45	-2.20	23.25	0.211	30.00	-6.75
1750.00	10	QPSK	1 / 49	25.53	-2.20	23.33	0.215	30.00	-6.67
1715.00	10	16-QAM	1 / 0	24.93	-2.20	22.73	0.187	30.00	-7.27
1715.00	10	64-QAM	1 / 0	23.88	-2.20	21.68	0.147	30.00	-8.32
1717.50	15	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1732.50	15	QPSK	1 / 74	25.25	-2.20	23.05	0.202	30.00	-6.95
1747.50	15	QPSK	1 / 74	25.41	-2.20	23.21	0.209	30.00	-6.79
1717.50	15	16-QAM	1 / 0	24.86	-2.20	22.66	0.185	30.00	-7.34
1717.50	15	64-QAM	1 / 0	23.95	-2.20	21.75	0.150	30.00	-8.25
1720.00	20	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1732.50	20	QPSK	1 / 99	25.22	-2.20	23.02	0.200	30.00	-6.98
1745.00	20	QPSK	1 / 99	25.60	-2.20	23.40	0.219	30.00	-6.60
1720.00	20	16-QAM	1 / 0	24.87	-2.20	22.67	0.185	30.00	-7.33
1720.00	20	64-QAM	1 / 0	23.68	-2.20	21.48	0.141	30.00	-8.52

Table 7-41. EIRP Data (Band 4)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 257 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	25.67	-2.20	23.47	0.222	30.00	-6.53
1745.00	1.4	QPSK	1 / 0	25.52	-2.20	23.32	0.215	30.00	-6.68
1779.30	1.4	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1779.30	1.4	16-QAM	1 / 5	24.89	-2.20	22.69	0.186	30.00	-7.31
1779.30	1.4	64-QAM	1 / 5	23.81	-2.20	21.61	0.145	30.00	-8.39
1711.50	3	QPSK	1 / 7	25.70	-2.20	23.50	0.224	30.00	-6.50
1745.00	3	QPSK	1 / 7	25.53	-2.20	23.33	0.215	30.00	-6.67
1778.50	3	QPSK	1 / 7	25.65	-2.20	23.45	0.221	30.00	-6.55
1711.50	3	16-QAM	1 / 7	24.89	-2.20	22.69	0.186	30.00	-7.31
1711.50	3	64-QAM	1 / 7	23.92	-2.20	21.72	0.149	30.00	-8.28
1712.50	5	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1745.00	5	QPSK	1 / 12	25.59	-2.20	23.39	0.218	30.00	-6.61
1777.50	5	QPSK	1 / 24	25.54	-2.20	23.34	0.216	30.00	-6.66
1712.50	5	16-QAM	1 / 12	24.91	-2.20	22.71	0.187	30.00	-7.29
1712.50	5	64-QAM	1 / 0	23.87	-2.20	21.67	0.147	30.00	-8.33
1715.00	10	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1745.00	10	QPSK	1 / 25	25.56	-2.20	23.36	0.217	30.00	-6.64
1775.00	10	QPSK	1 / 49	25.67	-2.20	23.47	0.222	30.00	-6.53
1715.00	10	16-QAM	1 / 0	24.92	-2.20	22.72	0.187	30.00	-7.28
1715.00	10	64-QAM	1 / 0	23.92	-2.20	21.72	0.149	30.00	-8.28
1717.50	15	QPSK	1 / 0	25.70	-2.20	23.50	0.224	30.00	-6.50
1745.00	15	QPSK	1 / 36	25.43	-2.20	23.23	0.210	30.00	-6.77
1772.50	15	QPSK	1 / 74	25.54	-2.20	23.34	0.216	30.00	-6.66
1717.50	15	16-QAM	1 / 0	24.74	-2.20	22.54	0.179	30.00	-7.46
1717.50	15	64-QAM	1 / 0	23.78	-2.20	21.58	0.144	30.00	-8.42
1720.00	20	QPSK	1 / 0	25.63	-2.20	23.43	0.220	30.00	-6.57
1745.00	20	QPSK	1 / 99	25.28	-2.20	23.08	0.203	30.00	-6.92
1770.00	20	QPSK	1 / 99	25.70	-2.20	23.50	0.224	30.00	-6.50
1770.00	20	16-QAM	1 / 50	24.71	-2.20	22.51	0.178	30.00	-7.49
1770.00	20	64-QAM	1 / 99	23.94	-2.20	21.74	0.149	30.00	-8.26

Table 7-42. EIRP Data (Band 66)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 258 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	25.58	-2.20	23.38	0.218	33.01	-9.63
1880.00	1.4	QPSK	1 / 0	25.55	-2.20	23.35	0.216	33.01	-9.66
1909.30	1.4	QPSK	1 / 5	25.70	-2.20	23.50	0.224	33.01	-9.51
1909.30	1.4	16-QAM	1 / 0	24.80	-2.20	22.60	0.182	33.01	-10.41
1909.30	1.4	64-QAM	1 / 5	23.83	-2.20	21.63	0.146	33.01	-11.38
1851.50	3	QPSK	1 / 7	25.67	-2.20	23.47	0.222	33.01	-9.54
1880.00	3	QPSK	1 / 7	25.70	-2.20	23.50	0.224	33.01	-9.51
1908.50	3	QPSK	1 / 7	25.61	-2.20	23.41	0.219	33.01	-9.60
1880.00	3	16-QAM	1 / 0	25.15	-2.20	22.95	0.197	33.01	-10.06
1880.00	3	64-QAM	1 / 0	24.02	-2.20	21.82	0.152	33.01	-11.19
1852.50	5	QPSK	1 / 24	25.55	-2.20	23.35	0.216	33.01	-9.66
1880.00	5	QPSK	1 / 0	25.70	-2.20	23.50	0.224	33.01	-9.51
1907.50	5	QPSK	1 / 0	25.45	-2.20	23.25	0.211	33.01	-9.76
1880.00	5	16-QAM	1 / 0	24.85	-2.20	22.65	0.184	33.01	-10.36
1880.00	5	64-QAM	1 / 12	23.90	-2.20	21.70	0.148	33.01	-11.31
1855.00	10	QPSK	1 / 49	25.70	-2.20	23.50	0.224	33.01	-9.51
1880.00	10	QPSK	1 / 0	25.66	-2.20	23.46	0.222	33.01	-9.55
1905.00	10	QPSK	1 / 0	25.67	-2.20	23.47	0.222	33.01	-9.54
1855.00	10	16-QAM	1 / 25	24.95	-2.20	22.75	0.188	33.01	-10.26
1855.00	10	64-QAM	1 / 49	23.96	-2.20	21.76	0.150	33.01	-11.25
1857.50	15	QPSK	1 / 36	25.70	-2.20	23.50	0.224	33.01	-9.51
1880.00	15	QPSK	1 / 36	25.54	-2.20	23.34	0.216	33.01	-9.67
1902.50	15	QPSK	1 / 36	25.53	-2.20	23.33	0.215	33.01	-9.68
1857.50	15	16-QAM	1 / 36	24.72	-2.20	22.52	0.179	33.01	-10.49
1857.50	15	64-QAM	1 / 36	23.81	-2.20	21.61	0.145	33.01	-11.40
1860.00	20	QPSK	1 / 50	25.56	-2.20	23.36	0.217	33.01	-9.65
1880.00	20	QPSK	1 / 0	25.52	-2.20	23.32	0.215	33.01	-9.69
1900.00	20	QPSK	1 / 50	25.70	-2.20	23.50	0.224	33.01	-9.51
1900.00	20	16-QAM	1 / 99	24.85	-2.20	22.65	0.184	33.01	-10.36
1900.00	20	64-QAM	1 / 50	23.86	-2.20	21.66	0.147	33.01	-11.35

Table 7-43. EIRP Data (Band 2)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 259 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	25.47	-2.20	23.27	0.212	33.01	-9.74
1882.50	1.4	QPSK	1 / 0	25.40	-2.20	23.20	0.209	33.01	-9.81
1914.30	1.4	QPSK	1 / 0	25.70	-2.20	23.50	0.224	33.01	-9.51
1914.30	1.4	16-QAM	1 / 0	24.74	-2.20	22.54	0.179	33.01	-10.47
1914.30	1.4	64-QAM	1 / 5	23.56	-2.20	21.36	0.137	33.01	-11.65
1851.50	3	QPSK	1 / 7	25.64	-2.20	23.44	0.221	33.01	-9.57
1882.50	3	QPSK	1 / 7	25.62	-2.20	23.42	0.220	33.01	-9.59
1913.50	3	QPSK	1 / 7	25.70	-2.20	23.50	0.224	33.01	-9.51
1913.50	3	16-QAM	1 / 0	25.04	-2.20	22.84	0.192	33.01	-10.17
1913.50	3	64-QAM	1 / 0	24.10	-2.20	21.90	0.155	33.01	-11.11
1852.50	5	QPSK	1 / 0	25.59	-2.20	23.39	0.218	33.01	-9.62
1882.50	5	QPSK	1 / 0	25.70	-2.20	23.50	0.224	33.01	-9.51
1912.50	5	QPSK	1 / 12	25.64	-2.20	23.44	0.221	33.01	-9.57
1882.50	5	16-QAM	1 / 0	24.97	-2.20	22.77	0.189	33.01	-10.24
1882.50	5	64-QAM	1 / 0	23.94	-2.20	21.74	0.149	33.01	-11.27
1855.00	10	QPSK	1 / 49	25.70	-2.20	23.50	0.224	33.01	-9.51
1882.50	10	QPSK	1 / 0	25.60	-2.20	23.40	0.219	33.01	-9.61
1910.00	10	QPSK	1 / 0	25.56	-2.20	23.36	0.217	33.01	-9.65
1855.00	10	16-QAM	1 / 49	24.93	-2.20	22.73	0.187	33.01	-10.28
1855.00	10	64-QAM	1 / 25	24.03	-2.20	21.83	0.152	33.01	-11.18
1857.50	15	QPSK	1 / 36	25.70	-2.20	23.50	0.224	33.01	-9.51
1882.50	15	QPSK	1 / 0	25.49	-2.20	23.29	0.213	33.01	-9.72
1907.50	15	QPSK	1 / 0	25.47	-2.20	23.27	0.212	33.01	-9.74
1857.50	15	16-QAM	1 / 36	24.98	-2.20	22.78	0.190	33.01	-10.23
1857.50	15	64-QAM	1 / 36	23.70	-2.20	21.50	0.141	33.01	-11.51
1860.00	20	QPSK	1 / 50	25.51	-2.20	23.31	0.214	33.01	-9.70
1882.50	20	QPSK	1 / 0	25.28	-2.20	23.08	0.203	33.01	-9.93
1905.00	20	QPSK	1 / 99	25.70	-2.20	23.50	0.224	33.01	-9.51
1905.00	20	16-QAM	1 / 99	24.72	-2.20	22.52	0.179	33.01	-10.49
1905.00	20	64-QAM	1 / 99	23.81	-2.20	21.61	0.145	33.01	-11.40

Table 7-44. EIRP Data (Band 25)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 260 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	24.00	-1.00	23.00	0.200	23.98	-0.98
2312.50	5	QPSK	1 / 24	23.94	-1.00	22.94	0.197	23.98	-1.04
2307.50	5	16-QAM	1 / 24	23.17	-1.00	22.17	0.165	23.98	-1.81
2312.50	5	64-QAM	1 / 24	22.30	-1.00	21.30	0.135	23.98	-2.68
2310.00	10	QPSK	1 / 49	24.00	-1.00	23.00	0.200	23.98	-0.98
2310.00	10	16-QAM	1 / 49	23.13	-1.00	22.13	0.163	23.98	-1.85
2310.00	10	64-QAM	1 / 49	22.56	-1.00	21.56	0.143	23.98	-2.42

Table 7-45. EIRP Data (Band 30)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	25.68	-0.10	25.58	0.361	33.01	-7.43
2535.00	5	QPSK	1 / 0	25.70	-0.10	25.60	0.363	33.01	-7.41
2567.50	5	QPSK	1 / 0	25.43	-0.10	25.33	0.341	33.01	-7.68
2535.00	5	16-QAM	1 / 0	24.86	-0.10	24.76	0.299	33.01	-8.25
2535.00	5	64-QAM	1 / 0	23.88	-0.10	23.78	0.239	33.01	-9.23
2505.00	10	QPSK	1 / 49	25.70	-0.10	25.60	0.363	33.01	-7.41
2535.00	10	QPSK	1 / 0	25.61	-0.10	25.51	0.356	33.01	-7.50
2565.00	10	QPSK	1 / 0	25.50	-0.10	25.40	0.347	33.01	-7.61
2505.00	10	16-QAM	1 / 49	24.86	-0.10	24.76	0.299	33.01	-8.25
2505.00	10	64-QAM	1 / 49	23.92	-0.10	23.82	0.241	33.01	-9.19
2507.50	15	QPSK	1 / 36	25.70	-0.10	25.60	0.363	33.01	-7.41
2535.00	15	QPSK	1 / 0	25.56	-0.10	25.46	0.352	33.01	-7.55
2562.50	15	QPSK	1 / 36	25.47	-0.10	25.37	0.344	33.01	-7.64
2507.50	15	16-QAM	1 / 36	24.92	-0.10	24.82	0.303	33.01	-8.19
2507.50	15	64-QAM	1 / 74	23.89	-0.10	23.79	0.239	33.01	-9.22
2510.00	20	QPSK	1 / 99	25.60	-0.10	25.50	0.355	33.01	-7.51
2535.00	20	QPSK	1 / 0	25.38	-0.10	25.28	0.337	33.01	-7.73
2560.00	20	QPSK	1 / 99	25.70	-0.10	25.60	0.363	33.01	-7.41
2560.00	20	16-QAM	1 / 99	24.75	-0.10	24.65	0.292	33.01	-8.36
2560.00	20	64-QAM	1 / 99	23.79	-0.10	23.69	0.234	33.01	-9.32

Table 7-46. EIRP Data (Band 7)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 262 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	27.49	-0.10	27.39	0.548	33.01	-5.62
2593.00	5	QPSK	1 / 0	28.31	-0.10	28.21	0.662	33.01	-4.80
2687.50	5	QPSK	1 / 0	28.17	-0.10	28.07	0.641	33.01	-4.94
2593.00	5	16-QAM	1 / 24	27.43	-0.10	27.33	0.541	33.01	-5.68
2593.00	5	64-QAM	1 / 0	26.55	-0.10	26.45	0.442	33.01	-6.56
2501.00	10	QPSK	1 / 49	27.37	-0.10	27.27	0.533	33.01	-5.74
2593.00	10	QPSK	1 / 0	28.31	-0.10	28.21	0.662	33.01	-4.80
2685.00	10	QPSK	1 / 0	28.17	-0.10	28.07	0.641	33.01	-4.94
2593.00	10	16-QAM	1 / 49	27.43	-0.10	27.33	0.541	33.01	-5.68
2593.00	10	64-QAM	1 / 0	26.55	-0.10	26.45	0.442	33.01	-6.56
2503.50	15	QPSK	1 / 74	27.70	-0.10	27.60	0.575	33.01	-5.41
2593.00	15	QPSK	1 / 0	28.31	-0.10	28.21	0.662	33.01	-4.80
2682.50	15	QPSK	1 / 36	28.16	-0.10	28.06	0.640	33.01	-4.95
2593.00	15	16-QAM	1 / 0	27.32	-0.10	27.22	0.527	33.01	-5.79
2593.00	15	64-QAM	1 / 0	26.51	-0.10	26.41	0.438	33.01	-6.60
2506.00	20	QPSK	1 / 99	27.70	-0.10	27.60	0.575	33.01	-5.41
2593.00	20	QPSK	1 / 0	28.15	-0.10	28.05	0.638	33.01	-4.96
2680.00	20	QPSK	1 / 99	28.30	-0.10	28.20	0.661	33.01	-4.81
2680.00	20	16-QAM	1 / 50	27.36	-0.10	27.26	0.532	33.01	-5.75
2680.00	20	64-QAM	1 / 99	26.62	-0.10	26.52	0.449	33.01	-6.49

Table 7-47. EIRP Data (Band 41 – PC2)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 263 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	25.56	-0.10	25.46	0.352	33.01	-7.55
2593.00	5	QPSK	1 / 0	25.58	-0.10	25.48	0.353	33.01	-7.53
2687.50	5	QPSK	1 / 0	25.42	-0.10	25.32	0.340	33.01	-7.69
2593.00	5	16-QAM	1 / 24	24.52	-0.10	24.42	0.277	33.01	-8.59
2593.00	5	64-QAM	1 / 0	23.59	-0.10	23.49	0.223	33.01	-9.52
2501.00	10	QPSK	1 / 49	25.70	-0.10	25.60	0.363	33.01	-7.41
2593.00	10	QPSK	1 / 0	25.62	-0.10	25.52	0.356	33.01	-7.49
2685.00	10	QPSK	1 / 0	25.49	-0.10	25.39	0.346	33.01	-7.62
2593.00	10	16-QAM	1 / 0	24.52	-0.10	24.42	0.277	33.01	-8.59
2593.00	10	64-QAM	1 / 49	23.33	-0.10	23.23	0.210	33.01	-9.78
2503.50	15	QPSK	1 / 36	25.44	-0.10	25.34	0.342	33.01	-7.67
2593.00	15	QPSK	1 / 0	25.40	-0.10	25.30	0.339	33.01	-7.71
2682.50	15	QPSK	1 / 0	25.45	-0.10	25.35	0.343	33.01	-7.66
2593.00	15	16-QAM	1 / 36	24.31	-0.10	24.21	0.264	33.01	-8.80
2593.00	15	64-QAM	1 / 0	23.44	-0.10	23.34	0.216	33.01	-9.67
2506.00	20	QPSK	1 / 99	25.65	-0.10	25.55	0.359	33.01	-7.46
2593.00	20	QPSK	1 / 0	25.61	-0.10	25.51	0.356	33.01	-7.50
2680.00	20	QPSK	1 / 99	25.50	-0.10	25.40	0.347	33.01	-7.61
2680.00	20	16-QAM	1 / 50	24.65	-0.10	24.55	0.285	33.01	-8.46
2680.00	20	64-QAM	1 / 0	23.66	-0.10	23.56	0.227	33.01	-9.45

Table 7-48. EIRP Data (Band 41 – PC3)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 264 of 398

7.8.2 Port-B Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 5	24.26	-1.90	20.21	0.105	34.77	-14.56	22.36	0.172	36.99	-14.63
707.50	1.4	QPSK	1 / 0	24.19	-1.90	20.14	0.103	34.77	-14.63	22.29	0.169	36.99	-14.70
715.30	1.4	QPSK	1 / 0	24.50	-1.90	20.45	0.111	34.77	-14.32	22.60	0.182	36.99	-14.39
715.30	1.4	16-QAM	1 / 0	23.63	-1.90	19.58	0.091	34.77	-15.19	21.73	0.149	36.99	-15.26
715.30	1.4	64-QAM	1 / 5	22.70	-1.90	18.65	0.073	34.77	-16.12	20.80	0.120	36.99	-16.19
700.50	3	QPSK	1 / 14	24.34	-1.90	20.29	0.107	34.77	-14.48	22.44	0.175	36.99	-14.55
707.50	3	QPSK	1 / 0	24.17	-1.90	20.12	0.103	34.77	-14.65	22.27	0.169	36.99	-14.72
714.50	3	QPSK	1 / 0	24.35	-1.90	20.30	0.107	34.77	-14.47	22.45	0.176	36.99	-14.54
714.50	3	16-QAM	1 / 0	23.44	-1.90	19.39	0.087	34.77	-15.38	21.54	0.143	36.99	-15.45
714.50	3	64-QAM	1 / 7	22.72	-1.90	18.67	0.074	34.77	-16.10	20.82	0.121	36.99	-16.17
701.50	5	QPSK	1 / 12	24.30	-1.90	20.25	0.106	34.77	-14.52	22.40	0.174	36.99	-14.59
707.50	5	QPSK	1 / 24	24.32	-1.90	20.27	0.106	34.77	-14.50	22.42	0.175	36.99	-14.57
713.50	5	QPSK	1 / 0	24.33	-1.90	20.28	0.107	34.77	-14.49	22.43	0.175	36.99	-14.56
713.50	5	16-QAM	1 / 12	23.46	-1.90	19.41	0.087	34.77	-15.36	21.56	0.143	36.99	-15.43
713.50	5	64-QAM	1 / 0	22.66	-1.90	18.61	0.073	34.77	-16.16	20.76	0.119	36.99	-16.23
704.00	10	QPSK	1 / 0	24.12	-1.90	20.07	0.102	34.77	-14.70	22.22	0.167	36.99	-14.77
707.50	10	QPSK	1 / 0	24.27	-1.90	20.22	0.105	34.77	-14.55	22.37	0.173	36.99	-14.62
711.00	10	QPSK	1 / 25	24.28	-1.90	20.23	0.105	34.77	-14.54	22.38	0.173	36.99	-14.61
711.00	10	16-QAM	1 / 25	23.48	-1.90	19.43	0.088	34.77	-15.34	21.58	0.144	36.99	-15.41
711.00	10	64-QAM	1 / 0	22.60	-1.90	18.55	0.072	34.77	-16.22	20.70	0.117	36.99	-16.29

Table 7-49. ERP Data (Band 12)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 265 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 24	24.39	-1.90	20.34	0.108	34.77	-14.43	22.49	0.177	36.99	-14.50
710.00	5	QPSK	1 / 24	24.34	-1.90	20.29	0.107	34.77	-14.48	22.44	0.175	36.99	-14.55
713.50	5	QPSK	1 / 24	24.42	-1.90	20.37	0.109	34.77	-14.40	22.52	0.179	36.99	-14.47
713.50	5	16-QAM	1 / 12	23.64	-1.90	19.59	0.091	34.77	-15.18	21.74	0.149	36.99	-15.25
713.50	5	64-QAM	1 / 24	22.67	-1.90	18.62	0.073	34.77	-16.15	20.77	0.119	36.99	-16.22
709.00	10	QPSK	1 / 0	24.31	-1.90	20.26	0.106	34.77	-14.51	22.41	0.174	36.99	-14.58
710.00	10	QPSK	1 / 49	24.47	-1.90	20.42	0.110	34.77	-14.35	22.57	0.181	36.99	-14.42
711.00	10	QPSK	1 / 0	24.38	-1.90	20.33	0.108	34.77	-14.44	22.48	0.177	36.99	-14.51
710.00	10	16-QAM	1 / 49	23.56	-1.90	19.51	0.089	34.77	-15.26	21.66	0.147	36.99	-15.33
710.00	10	64-QAM	1 / 25	22.69	-1.90	18.64	0.073	34.77	-16.13	20.79	0.120	36.99	-16.20

Table 7-50. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	24.49	-1.90	20.44	0.111	34.77	-14.33	22.59	0.182	36.99	-14.40
782.00	5	QPSK	1 / 24	24.33	-1.90	20.28	0.107	34.77	-14.49	22.43	0.175	36.99	-14.56
784.50	5	QPSK	1 / 0	24.19	-1.90	20.14	0.103	34.77	-14.63	22.29	0.169	36.99	-14.70
779.50	5	16-QAM	1 / 0	23.64	-1.90	19.59	0.091	34.77	-15.18	21.74	0.149	36.99	-15.25
779.50	5	64-QAM	1 / 0	22.65	-1.90	18.60	0.072	34.77	-16.17	20.75	0.119	36.99	-16.24
782.00	10	QPSK	1 / 0	24.33	-1.90	20.28	0.107	34.77	-14.49	22.43	0.175	36.99	-14.56
782.00	10	16-QAM	1 / 0	23.46	-1.90	19.41	0.087	34.77	-15.36	21.56	0.143	36.99	-15.43
782.00	10	64-QAM	1 / 0	22.82	-1.90	18.77	0.075	34.77	-16.00	20.92	0.124	36.99	-16.07

Table 7-51. ERP Data (Band 13)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)						Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device						

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.09	-0.60	21.34	0.136	38.45	-17.11	23.49	0.223	40.61	-17.12
836.50	1.4	QPSK	1 / 5	24.04	-0.60	21.29	0.135	38.45	-17.16	23.44	0.221	40.61	-17.17
848.30	1.4	QPSK	1 / 5	24.50	-0.60	21.75	0.150	38.45	-16.70	23.90	0.245	40.61	-16.71
848.30	1.4	16-QAM	1 / 5	23.75	-0.60	21.00	0.126	38.45	-17.45	23.15	0.207	40.61	-17.46
848.30	1.4	64-QAM	1 / 5	22.66	-0.60	19.91	0.098	38.45	-18.54	22.06	0.161	40.61	-18.55
825.50	3	QPSK	1 / 0	24.01	-0.60	21.26	0.134	38.45	-17.19	23.41	0.219	40.61	-17.20
836.50	3	QPSK	1 / 7	24.03	-0.60	21.28	0.134	38.45	-17.17	23.43	0.220	40.61	-17.18
847.50	3	QPSK	1 / 7	24.22	-0.60	21.47	0.140	38.45	-16.98	23.62	0.230	40.61	-16.99
847.50	3	16-QAM	1 / 14	23.49	-0.60	20.74	0.119	38.45	-17.71	22.89	0.195	40.61	-17.72
847.50	3	64-QAM	1 / 14	22.66	-0.60	19.91	0.098	38.45	-18.54	22.06	0.161	40.61	-18.55
826.50	5	QPSK	1 / 0	24.08	-0.60	21.33	0.136	38.45	-17.12	23.48	0.223	40.61	-17.13
836.50	5	QPSK	1 / 24	24.28	-0.60	21.53	0.142	38.45	-16.92	23.68	0.233	40.61	-16.93
846.50	5	QPSK	1 / 24	24.24	-0.60	21.49	0.141	38.45	-16.96	23.64	0.231	40.61	-16.97
836.50	5	16-QAM	1 / 24	23.35	-0.60	20.60	0.115	38.45	-17.85	22.75	0.188	40.61	-17.86
836.50	5	64-QAM	1 / 24	22.31	-0.60	19.56	0.090	38.45	-18.89	21.71	0.148	40.61	-18.90
829.00	10	QPSK	1 / 0	24.07	-0.60	21.32	0.136	38.45	-17.13	23.47	0.222	40.61	-17.14
836.50	10	QPSK	1 / 49	24.06	-0.60	21.31	0.135	38.45	-17.14	23.46	0.222	40.61	-17.15
844.00	10	QPSK	1 / 49	24.24	-0.60	21.49	0.141	38.45	-16.96	23.64	0.231	40.61	-16.97
844.00	10	16-QAM	1 / 49	23.40	-0.60	20.65	0.116	38.45	-17.80	22.80	0.191	40.61	-17.81
844.00	10	64-QAM	1 / 49	22.55	-0.60	19.80	0.095	38.45	-18.65	21.95	0.157	40.61	-18.66

Table 7-52. ERP Data (Band 5)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device					Page 267 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	24.13	-0.60	21.38	0.137	38.45	-17.07	23.53	0.225	40.61	-17.08
836.50	1.4	QPSK	1 / 5	24.01	-0.60	21.26	0.134	38.45	-17.19	23.41	0.219	40.61	-17.20
848.30	1.4	QPSK	1 / 5	24.50	-0.60	21.75	0.150	38.45	-16.70	23.90	0.245	40.61	-16.71
848.30	1.4	16-QAM	1 / 5	23.84	-0.60	21.09	0.129	38.45	-17.36	23.24	0.211	40.61	-17.37
848.30	1.4	64-QAM	1 / 2	22.54	-0.60	19.79	0.095	38.45	-18.66	21.94	0.156	40.61	-18.67
825.50	3	QPSK	1 / 0	24.38	-0.60	21.63	0.146	38.45	-16.82	23.78	0.239	40.61	-16.83
836.50	3	QPSK	1 / 7	24.25	-0.60	21.50	0.141	38.45	-16.95	23.65	0.232	40.61	-16.96
847.50	3	QPSK	1 / 7	24.50	-0.60	21.75	0.150	38.45	-16.70	23.90	0.245	40.61	-16.71
847.50	3	16-QAM	1 / 14	23.80	-0.60	21.05	0.127	38.45	-17.40	23.20	0.209	40.61	-17.41
847.50	3	64-QAM	1 / 7	22.97	-0.60	20.22	0.105	38.45	-18.23	22.37	0.173	40.61	-18.24
826.50	5	QPSK	1 / 0	24.33	-0.60	21.58	0.144	38.45	-16.87	23.73	0.236	40.61	-16.88
836.50	5	QPSK	1 / 24	24.42	-0.60	21.67	0.147	38.45	-16.78	23.82	0.241	40.61	-16.79
846.50	5	QPSK	1 / 24	24.50	-0.60	21.75	0.150	38.45	-16.70	23.90	0.245	40.61	-16.71
846.50	5	16-QAM	1 / 24	23.67	-0.60	20.92	0.124	38.45	-17.53	23.07	0.203	40.61	-17.54
846.50	5	64-QAM	1 / 12	22.78	-0.60	20.03	0.101	38.45	-18.42	22.18	0.165	40.61	-18.43
829.00	10	QPSK	1 / 49	24.30	-0.60	21.55	0.143	38.45	-16.90	23.70	0.234	40.61	-16.91
836.50	10	QPSK	1 / 49	24.28	-0.60	21.53	0.142	38.45	-16.92	23.68	0.233	40.61	-16.93
844.00	10	QPSK	1 / 49	24.50	-0.60	21.75	0.150	38.45	-16.70	23.90	0.245	40.61	-16.71
844.00	10	16-QAM	1 / 49	23.67	-0.60	20.92	0.124	38.45	-17.53	23.07	0.203	40.61	-17.54
844.00	10	64-QAM	1 / 49	22.99	-0.60	20.24	0.106	38.45	-18.21	22.39	0.173	40.61	-18.22

Table 7-53. ERP Data (Band 26)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 268 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.22	-2.70	20.52	0.113	30.00	-9.48
1732.50	1.4	QPSK	1 / 0	23.18	-2.70	20.48	0.112	30.00	-9.52
1754.30	1.4	QPSK	1 / 0	23.50	-2.70	20.80	0.120	30.00	-9.20
1754.30	1.4	16-QAM	1 / 5	22.76	-2.70	20.06	0.101	30.00	-9.94
1754.30	1.4	64-QAM	1 / 5	21.70	-2.70	19.00	0.079	30.00	-11.00
1711.50	3	QPSK	1 / 7	23.44	-2.70	20.74	0.119	30.00	-9.26
1732.50	3	QPSK	1 / 7	23.34	-2.70	20.64	0.116	30.00	-9.36
1753.50	3	QPSK	1 / 7	23.50	-2.70	20.80	0.120	30.00	-9.20
1753.50	3	16-QAM	1 / 0	22.73	-2.70	20.03	0.101	30.00	-9.97
1753.50	3	64-QAM	1 / 7	21.94	-2.70	19.24	0.084	30.00	-10.76
1712.50	5	QPSK	1 / 24	23.49	-2.70	20.79	0.120	30.00	-9.21
1732.50	5	QPSK	1 / 0	23.50	-2.70	20.80	0.120	30.00	-9.20
1752.50	5	QPSK	1 / 24	23.50	-2.70	20.80	0.120	30.00	-9.20
1732.50	5	16-QAM	1 / 0	22.65	-2.70	19.95	0.099	30.00	-10.05
1732.50	5	64-QAM	1 / 0	21.80	-2.70	19.10	0.081	30.00	-10.90
1715.00	10	QPSK	1 / 25	23.42	-2.70	20.72	0.118	30.00	-9.28
1732.50	10	QPSK	1 / 0	23.37	-2.70	20.67	0.117	30.00	-9.33
1750.00	10	QPSK	1 / 49	23.50	-2.70	20.80	0.120	30.00	-9.20
1750.00	10	16-QAM	1 / 49	22.66	-2.70	19.96	0.099	30.00	-10.04
1750.00	10	64-QAM	1 / 25	22.01	-2.70	19.31	0.085	30.00	-10.69
1717.50	15	QPSK	1 / 36	23.50	-2.70	20.80	0.120	30.00	-9.20
1732.50	15	QPSK	1 / 0	23.24	-2.70	20.54	0.113	30.00	-9.46
1747.50	15	QPSK	1 / 74	23.38	-2.70	20.68	0.117	30.00	-9.32
1717.50	15	16-QAM	1 / 36	22.73	-2.70	20.03	0.101	30.00	-9.97
1717.50	15	64-QAM	1 / 36	21.59	-2.70	18.89	0.077	30.00	-11.11
1720.00	20	QPSK	1 / 99	23.37	-2.70	20.67	0.117	30.00	-9.33
1732.50	20	QPSK	1 / 0	23.22	-2.70	20.52	0.113	30.00	-9.48
1745.00	20	QPSK	1 / 99	23.50	-2.70	20.80	0.120	30.00	-9.20
1745.00	20	16-QAM	1 / 99	22.73	-2.70	20.03	0.101	30.00	-9.97
1745.00	20	64-QAM	1 / 99	21.84	-2.70	19.14	0.082	30.00	-10.86

Table 7-54. EIRP Data (Band 4)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 269 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	23.03	-2.70	20.33	0.108	30.00	-9.67
1745.00	1.4	QPSK	1 / 0	23.06	-2.70	20.36	0.109	30.00	-9.64
1779.30	1.4	QPSK	1 / 0	23.50	-2.70	20.80	0.120	30.00	-9.20
1779.30	1.4	16-QAM	1 / 5	22.68	-2.70	19.98	0.100	30.00	-10.02
1779.30	1.4	64-QAM	1 / 5	21.66	-2.70	18.96	0.079	30.00	-11.04
1711.50	3	QPSK	1 / 7	23.23	-2.70	20.53	0.113	30.00	-9.47
1745.00	3	QPSK	1 / 7	23.21	-2.70	20.51	0.112	30.00	-9.49
1778.50	3	QPSK	1 / 7	23.50	-2.70	20.80	0.120	30.00	-9.20
1778.50	3	16-QAM	1 / 14	22.62	-2.70	19.92	0.098	30.00	-10.08
1778.50	3	64-QAM	1 / 7	21.94	-2.70	19.24	0.084	30.00	-10.76
1712.50	5	QPSK	1 / 24	23.27	-2.70	20.57	0.114	30.00	-9.43
1745.00	5	QPSK	1 / 24	23.34	-2.70	20.64	0.116	30.00	-9.36
1777.50	5	QPSK	1 / 24	23.50	-2.70	20.80	0.120	30.00	-9.20
1777.50	5	16-QAM	1 / 24	22.66	-2.70	19.96	0.099	30.00	-10.04
1777.50	5	64-QAM	1 / 12	21.98	-2.70	19.28	0.085	30.00	-10.72
1715.00	10	QPSK	1 / 25	23.21	-2.70	20.51	0.112	30.00	-9.49
1745.00	10	QPSK	1 / 49	23.21	-2.70	20.51	0.112	30.00	-9.49
1775.00	10	QPSK	1 / 49	23.50	-2.70	20.80	0.120	30.00	-9.20
1775.00	10	16-QAM	1 / 49	22.69	-2.70	19.99	0.100	30.00	-10.01
1775.00	10	64-QAM	1 / 49	22.08	-2.70	19.38	0.087	30.00	-10.62
1717.50	15	QPSK	1 / 36	23.47	-2.70	20.77	0.119	30.00	-9.23
1745.00	15	QPSK	1 / 74	23.23	-2.70	20.53	0.113	30.00	-9.47
1772.50	15	QPSK	1 / 74	23.50	-2.70	20.80	0.120	30.00	-9.20
1772.50	15	16-QAM	1 / 74	22.75	-2.70	20.05	0.101	30.00	-9.95
1772.50	15	64-QAM	1 / 74	22.07	-2.70	19.37	0.086	30.00	-10.63
1720.00	20	QPSK	1 / 99	23.05	-2.70	20.35	0.108	30.00	-9.65
1745.00	20	QPSK	1 / 99	23.34	-2.70	20.64	0.116	30.00	-9.36
1770.00	20	QPSK	1 / 99	23.50	-2.70	20.80	0.120	30.00	-9.20
1770.00	20	16-QAM	1 / 99	22.69	-2.70	19.99	0.100	30.00	-10.01
1770.00	20	64-QAM	1 / 0	21.53	-2.70	18.83	0.076	30.00	-11.17

Table 7-55. EIRP Data (Band 66)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 270 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	23.20	-2.60	20.60	0.115	33.01	-12.41
1880.00	1.4	QPSK	1 / 5	23.23	-2.60	20.63	0.116	33.01	-12.38
1909.30	1.4	QPSK	1 / 5	23.50	-2.60	20.90	0.123	33.01	-12.11
1909.30	1.4	16-QAM	1 / 5	22.75	-2.60	20.15	0.104	33.01	-12.86
1909.30	1.4	64-QAM	1 / 5	21.82	-2.60	19.22	0.084	33.01	-13.79
1851.50	3	QPSK	1 / 7	23.50	-2.60	20.90	0.123	33.01	-12.11
1880.00	3	QPSK	1 / 7	23.42	-2.60	20.82	0.121	33.01	-12.19
1908.50	3	QPSK	1 / 7	23.48	-2.60	20.88	0.122	33.01	-12.13
1851.50	3	16-QAM	1 / 7	22.94	-2.60	20.34	0.108	33.01	-12.67
1851.50	3	64-QAM	1 / 7	21.84	-2.60	19.24	0.084	33.01	-13.77
1852.50	5	QPSK	1 / 24	23.50	-2.60	20.90	0.123	33.01	-12.11
1880.00	5	QPSK	1 / 24	23.42	-2.60	20.82	0.121	33.01	-12.19
1907.50	5	QPSK	1 / 0	23.42	-2.60	20.82	0.121	33.01	-12.19
1852.50	5	16-QAM	1 / 24	22.94	-2.60	20.34	0.108	33.01	-12.67
1852.50	5	64-QAM	1 / 24	21.72	-2.60	19.12	0.082	33.01	-13.89
1855.00	10	QPSK	1 / 49	23.50	-2.60	20.90	0.123	33.01	-12.11
1880.00	10	QPSK	1 / 49	23.36	-2.60	20.76	0.119	33.01	-12.25
1905.00	10	QPSK	1 / 25	23.46	-2.60	20.86	0.122	33.01	-12.15
1855.00	10	16-QAM	1 / 49	22.77	-2.60	20.17	0.104	33.01	-12.84
1855.00	10	64-QAM	1 / 49	21.77	-2.60	19.17	0.083	33.01	-13.84
1857.50	15	QPSK	1 / 36	23.50	-2.60	20.90	0.123	33.01	-12.11
1880.00	15	QPSK	1 / 0	23.16	-2.60	20.56	0.114	33.01	-12.45
1902.50	15	QPSK	1 / 74	23.34	-2.60	20.74	0.119	33.01	-12.27
1857.50	15	16-QAM	1 / 36	22.86	-2.60	20.26	0.106	33.01	-12.75
1857.50	15	64-QAM	1 / 74	21.87	-2.60	19.27	0.085	33.01	-13.74
1860.00	20	QPSK	1 / 99	23.41	-2.60	20.81	0.121	33.01	-12.20
1880.00	20	QPSK	1 / 0	23.20	-2.60	20.60	0.115	33.01	-12.41
1900.00	20	QPSK	1 / 99	23.50	-2.60	20.90	0.123	33.01	-12.11
1900.00	20	16-QAM	1 / 50	22.79	-2.60	20.19	0.104	33.01	-12.82
1900.00	20	64-QAM	1 / 50	21.83	-2.60	19.23	0.084	33.01	-13.78

Table 7-56. EIRP Data (Band 2)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 271 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	23.04	-2.60	20.44	0.111	33.01	-12.57
1882.50	1.4	QPSK	1 / 5	23.06	-2.60	20.46	0.111	33.01	-12.55
1914.30	1.4	QPSK	1 / 0	23.50	-2.60	20.90	0.123	33.01	-12.11
1914.30	1.4	16-QAM	1 / 0	22.71	-2.60	20.11	0.103	33.01	-12.90
1914.30	1.4	64-QAM	1 / 5	21.64	-2.60	19.04	0.080	33.01	-13.97
1851.50	3	QPSK	1 / 7	23.29	-2.60	20.69	0.117	33.01	-12.32
1882.50	3	QPSK	1 / 7	23.25	-2.60	20.65	0.116	33.01	-12.36
1913.50	3	QPSK	1 / 0	23.50	-2.60	20.90	0.123	33.01	-12.11
1913.50	3	16-QAM	1 / 14	22.78	-2.60	20.18	0.104	33.01	-12.83
1913.50	3	64-QAM	1 / 0	21.96	-2.60	19.36	0.086	33.01	-13.65
1852.50	5	QPSK	1 / 24	23.46	-2.60	20.86	0.122	33.01	-12.15
1882.50	5	QPSK	1 / 12	23.38	-2.60	20.78	0.120	33.01	-12.23
1912.50	5	QPSK	1 / 12	23.50	-2.60	20.90	0.123	33.01	-12.11
1912.50	5	16-QAM	1 / 12	22.79	-2.60	20.19	0.104	33.01	-12.82
1912.50	5	64-QAM	1 / 24	21.95	-2.60	19.35	0.086	33.01	-13.66
1855.00	10	QPSK	1 / 49	23.44	-2.60	20.84	0.121	33.01	-12.17
1882.50	10	QPSK	1 / 25	23.31	-2.60	20.71	0.118	33.01	-12.30
1910.00	10	QPSK	1 / 49	23.50	-2.60	20.90	0.123	33.01	-12.11
1910.00	10	16-QAM	1 / 49	22.73	-2.60	20.13	0.103	33.01	-12.88
1910.00	10	64-QAM	1 / 49	21.82	-2.60	19.22	0.084	33.01	-13.79
1857.50	15	QPSK	1 / 36	23.50	-2.60	20.90	0.123	33.01	-12.11
1882.50	15	QPSK	1 / 36	23.27	-2.60	20.67	0.117	33.01	-12.34
1907.50	15	QPSK	1 / 74	23.47	-2.60	20.87	0.122	33.01	-12.14
1857.50	15	16-QAM	1 / 36	22.81	-2.60	20.21	0.105	33.01	-12.80
1857.50	15	64-QAM	1 / 0	21.66	-2.60	19.06	0.081	33.01	-13.95
1860.00	20	QPSK	1 / 99	23.13	-2.60	20.53	0.113	33.01	-12.48
1882.50	20	QPSK	1 / 50	22.91	-2.60	20.31	0.107	33.01	-12.70
1905.00	20	QPSK	1 / 99	23.50	-2.60	20.90	0.123	33.01	-12.11
1905.00	20	16-QAM	1 / 99	22.75	-2.60	20.15	0.104	33.01	-12.86
1905.00	20	64-QAM	1 / 99	21.71	-2.60	19.11	0.081	33.01	-13.90

Table 7-57. EIRP Data (Band 25)

FCC ID: BCGA2230	PCTEST® MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 272 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 12	23.00	-3.10	19.90	0.098	23.98	-4.08
2312.50	5	QPSK	1 / 24	22.97	-3.10	19.87	0.097	23.98	-4.11
2307.50	5	16-QAM	1 / 24	22.25	-3.10	19.15	0.082	23.98	-4.83
2312.50	5	64-QAM	1 / 24	21.21	-3.10	18.11	0.065	23.98	-5.87
2310.00	10	QPSK	1 / 25	23.00	-3.10	19.90	0.098	23.98	-4.08
2310.00	10	16-QAM	1 / 25	22.60	-3.10	19.50	0.089	23.98	-4.48
2310.00	10	64-QAM	1 / 25	21.29	-3.10	18.19	0.066	23.98	-5.79

Table 7-58. EIRP Data (Band 30)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device		

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 0	22.74	-0.40	22.34	0.171	33.01	-10.67
2535.00	5	QPSK	1 / 24	23.00	-0.40	22.60	0.182	33.01	-10.41
2567.50	5	QPSK	1 / 12	22.86	-0.40	22.46	0.176	33.01	-10.55
2535.00	5	16-QAM	1 / 24	22.05	-0.40	21.65	0.146	33.01	-11.36
2535.00	5	64-QAM	1 / 24	21.11	-0.40	20.71	0.118	33.01	-12.30
2505.00	10	QPSK	1 / 49	22.67	-0.40	22.27	0.169	33.01	-10.74
2535.00	10	QPSK	1 / 49	22.80	-0.40	22.40	0.174	33.01	-10.61
2565.00	10	QPSK	1 / 49	22.78	-0.40	22.38	0.173	33.01	-10.63
2535.00	10	16-QAM	1 / 25	21.93	-0.40	21.53	0.142	33.01	-11.48
2535.00	10	64-QAM	1 / 0	21.00	-0.40	20.60	0.115	33.01	-12.41
2507.50	15	QPSK	1 / 74	22.88	-0.40	22.48	0.177	33.01	-10.53
2535.00	15	QPSK	1 / 36	22.75	-0.40	22.35	0.172	33.01	-10.66
2562.50	15	QPSK	1 / 74	22.69	-0.40	22.29	0.169	33.01	-10.72
2507.50	15	16-QAM	1 / 74	22.08	-0.40	21.68	0.147	33.01	-11.33
2507.50	15	64-QAM	1 / 0	20.98	-0.40	20.58	0.114	33.01	-12.43
2510.00	20	QPSK	1 / 99	22.79	-0.40	22.39	0.173	33.01	-10.62
2535.00	20	QPSK	1 / 99	22.78	-0.40	22.38	0.173	33.01	-10.63
2560.00	20	QPSK	1 / 99	22.86	-0.40	22.46	0.176	33.01	-10.55
2560.00	20	16-QAM	1 / 99	21.95	-0.40	21.55	0.143	33.01	-11.46
2560.00	20	64-QAM	1 / 99	21.02	-0.40	20.62	0.115	33.01	-12.39

Table 7-59. EIRP Data (Band 7)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 274 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	24.00	-0.40	23.60	0.229	33.01	-9.41
2593.00	5	QPSK	1 / 24	24.97	-0.40	24.57	0.286	33.01	-8.44
2687.50	5	QPSK	1 / 24	24.66	-0.40	24.26	0.267	33.01	-8.75
2593.00	5	16-QAM	1 / 24	24.17	-0.40	23.77	0.238	33.01	-9.24
2593.00	5	64-QAM	1 / 0	23.17	-0.40	22.77	0.189	33.01	-10.24
2501.00	10	QPSK	1 / 0	24.00	-0.40	23.60	0.229	33.01	-9.41
2593.00	10	QPSK	1 / 25	24.94	-0.40	24.54	0.284	33.01	-8.47
2685.00	10	QPSK	1 / 49	24.68	-0.40	24.28	0.268	33.01	-8.73
2593.00	10	16-QAM	1 / 25	24.04	-0.40	23.64	0.231	33.01	-9.37
2593.00	10	64-QAM	1 / 0	23.25	-0.40	22.85	0.193	33.01	-10.16
2503.50	15	QPSK	1 / 0	24.00	-0.40	23.60	0.229	33.01	-9.41
2593.00	15	QPSK	1 / 36	24.90	-0.40	24.50	0.282	33.01	-8.51
2682.50	15	QPSK	1 / 36	24.65	-0.40	24.25	0.266	33.01	-8.76
2593.00	15	16-QAM	1 / 0	24.20	-0.40	23.80	0.240	33.01	-9.21
2593.00	15	64-QAM	1 / 36	23.18	-0.40	22.78	0.190	33.01	-10.23
2506.00	20	QPSK	1 / 0	24.00	-0.40	23.60	0.229	33.01	-9.41
2593.00	20	QPSK	1 / 50	24.84	-0.40	24.44	0.278	33.01	-8.57
2680.00	20	QPSK	1 / 99	24.74	-0.40	24.34	0.272	33.01	-8.67
2593.00	20	16-QAM	1 / 0	23.99	-0.40	23.59	0.229	33.01	-9.42
2593.00	20	64-QAM	1 / 0	23.18	-0.40	22.78	0.190	33.01	-10.23

Table 7-60. EIRP Data (Band 41 PC2)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 275 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	22.96	-0.40	22.56	0.180	33.01	-10.45
2593.00	5	QPSK	1 / 0	22.80	-0.40	22.40	0.174	33.01	-10.61
2687.50	5	QPSK	1 / 24	22.54	-0.40	22.14	0.164	33.01	-10.87
2593.00	5	16-QAM	1 / 0	21.88	-0.40	21.48	0.141	33.01	-11.53
2593.00	5	64-QAM	1 / 0	20.78	-0.40	20.38	0.109	33.01	-12.63
2501.00	10	QPSK	1 / 0	23.00	-0.40	22.60	0.182	33.01	-10.41
2593.00	10	QPSK	1 / 0	22.87	-0.40	22.47	0.177	33.01	-10.54
2685.00	10	QPSK	1 / 49	22.63	-0.40	22.23	0.167	33.01	-10.78
2593.00	10	16-QAM	1 / 0	21.61	-0.40	21.21	0.132	33.01	-11.80
2593.00	10	64-QAM	1 / 0	20.68	-0.40	20.28	0.107	33.01	-12.73
2503.50	15	QPSK	1 / 0	22.78	-0.40	22.38	0.173	33.01	-10.63
2593.00	15	QPSK	1 / 0	22.74	-0.40	22.34	0.171	33.01	-10.67
2682.50	15	QPSK	1 / 36	22.59	-0.40	22.19	0.166	33.01	-10.82
2593.00	15	16-QAM	1 / 0	21.60	-0.40	21.20	0.132	33.01	-11.81
2593.00	15	64-QAM	1 / 74	20.70	-0.40	20.30	0.107	33.01	-12.71
2506.00	20	QPSK	1 / 0	22.78	-0.40	22.38	0.173	33.01	-10.63
2593.00	20	QPSK	1 / 0	22.86	-0.40	22.46	0.176	33.01	-10.55
2680.00	20	QPSK	1 / 99	22.72	-0.40	22.32	0.171	33.01	-10.69
2593.00	20	16-QAM	1 / 0	21.99	-0.40	21.59	0.144	33.01	-11.42
2593.00	20	64-QAM	1 / 0	20.91	-0.40	20.51	0.112	33.01	-12.50

Table 7-61. EIRP Data (Band 41 PC3)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 276 of 398

7.8.3 Port-C Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	25.00	-1.50	23.50	0.224	30.00	-6.50
1732.50	1.4	QPSK	1 / 0	24.89	-1.50	23.39	0.218	30.00	-6.61
1754.30	1.4	QPSK	1 / 5	24.97	-1.50	23.47	0.222	30.00	-6.53
1710.70	1.4	16-QAM	1 / 0	24.21	-1.50	22.71	0.187	30.00	-7.29
1710.70	1.4	64-QAM	1 / 0	23.25	-1.50	21.75	0.150	30.00	-8.25
1711.50	3	QPSK	1 / 7	25.00	-1.50	23.50	0.224	30.00	-6.50
1732.50	3	QPSK	1 / 7	24.91	-1.50	23.41	0.219	30.00	-6.59
1753.50	3	QPSK	1 / 7	24.84	-1.50	23.34	0.216	30.00	-6.66
1711.50	3	16-QAM	1 / 14	24.11	-1.50	22.61	0.182	30.00	-7.39
1711.50	3	64-QAM	1 / 7	23.29	-1.50	21.79	0.151	30.00	-8.21
1712.50	5	QPSK	1 / 24	25.00	-1.50	23.50	0.224	30.00	-6.50
1732.50	5	QPSK	1 / 12	24.99	-1.50	23.49	0.223	30.00	-6.51
1752.50	5	QPSK	1 / 0	24.79	-1.50	23.29	0.213	30.00	-6.71
1712.50	5	16-QAM	1 / 24	24.34	-1.50	22.84	0.192	30.00	-7.16
1712.50	5	64-QAM	1 / 12	23.37	-1.50	21.87	0.154	30.00	-8.13
1715.00	10	QPSK	1 / 49	25.00	-1.50	23.50	0.224	30.00	-6.50
1732.50	10	QPSK	1 / 49	24.92	-1.50	23.42	0.220	30.00	-6.58
1750.00	10	QPSK	1 / 0	24.84	-1.50	23.34	0.216	30.00	-6.66
1715.00	10	16-QAM	1 / 49	24.35	-1.50	22.85	0.193	30.00	-7.15
1715.00	10	64-QAM	1 / 25	23.27	-1.50	21.77	0.150	30.00	-8.23
1717.50	15	QPSK	1 / 36	25.00	-1.50	23.50	0.224	30.00	-6.50
1732.50	15	QPSK	1 / 36	24.76	-1.50	23.26	0.212	30.00	-6.74
1747.50	15	QPSK	1 / 0	24.70	-1.50	23.20	0.209	30.00	-6.80
1717.50	15	16-QAM	1 / 36	24.13	-1.50	22.63	0.183	30.00	-7.37
1717.50	15	64-QAM	1 / 36	23.23	-1.50	21.73	0.149	30.00	-8.27
1720.00	20	QPSK	1 / 50	25.00	-1.50	23.50	0.224	30.00	-6.50
1732.50	20	QPSK	1 / 50	24.84	-1.50	23.34	0.216	30.00	-6.66
1745.00	20	QPSK	1 / 0	24.67	-1.50	23.17	0.207	30.00	-6.83
1720.00	20	16-QAM	1 / 0	24.07	-1.50	22.57	0.181	30.00	-7.43
1720.00	20	64-QAM	1 / 0	23.18	-1.50	21.68	0.147	30.00	-8.32

Table 7-62. EIRP Data (Band 4)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device				

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	24.82	-1.50	23.32	0.215	30.00	-6.68
1745.00	1.4	QPSK	1 / 0	24.69	-1.50	23.19	0.208	30.00	-6.81
1779.30	1.4	QPSK	1 / 0	25.00	-1.50	23.50	0.224	30.00	-6.50
1779.30	1.4	16-QAM	1 / 0	24.11	-1.50	22.61	0.182	30.00	-7.39
1779.30	1.4	64-QAM	1 / 0	23.17	-1.50	21.67	0.147	30.00	-8.33
1711.50	3	QPSK	1 / 7	24.98	-1.50	23.48	0.223	30.00	-6.52
1745.00	3	QPSK	1 / 7	24.88	-1.50	23.38	0.218	30.00	-6.62
1778.50	3	QPSK	1 / 7	25.00	-1.50	23.50	0.224	30.00	-6.50
1778.50	3	16-QAM	1 / 7	24.20	-1.50	22.70	0.186	30.00	-7.30
1778.50	3	64-QAM	1 / 7	23.14	-1.50	21.64	0.146	30.00	-8.36
1712.50	5	QPSK	1 / 24	25.00	-1.50	23.50	0.224	30.00	-6.50
1745.00	5	QPSK	1 / 0	24.94	-1.50	23.44	0.221	30.00	-6.56
1777.50	5	QPSK	1 / 0	24.95	-1.50	23.45	0.221	30.00	-6.55
1712.50	5	16-QAM	1 / 24	24.26	-1.50	22.76	0.189	30.00	-7.24
1712.50	5	64-QAM	1 / 12	23.20	-1.50	21.70	0.148	30.00	-8.30
1715.00	10	QPSK	1 / 0	24.96	-1.50	23.46	0.222	30.00	-6.54
1745.00	10	QPSK	1 / 0	24.88	-1.50	23.38	0.218	30.00	-6.62
1775.00	10	QPSK	1 / 49	25.00	-1.50	23.50	0.224	30.00	-6.50
1775.00	10	16-QAM	1 / 49	24.28	-1.50	22.78	0.190	30.00	-7.22
1775.00	10	64-QAM	1 / 25	23.22	-1.50	21.72	0.149	30.00	-8.28
1717.50	15	QPSK	1 / 36	25.00	-1.50	23.50	0.224	30.00	-6.50
1745.00	15	QPSK	1 / 0	24.64	-1.50	23.14	0.206	30.00	-6.86
1772.50	15	QPSK	1 / 36	24.78	-1.50	23.28	0.213	30.00	-6.72
1717.50	15	16-QAM	1 / 36	24.09	-1.50	22.59	0.182	30.00	-7.41
1717.50	15	64-QAM	1 / 36	23.15	-1.50	21.65	0.146	30.00	-8.35
1720.00	20	QPSK	1 / 50	25.00	-1.50	23.50	0.224	30.00	-6.50
1745.00	20	QPSK	1 / 0	24.69	-1.50	23.19	0.208	30.00	-6.81
1770.00	20	QPSK	1 / 50	25.00	-1.50	23.50	0.224	30.00	-6.50
1720.00	20	16-QAM	1 / 50	24.16	-1.50	22.66	0.185	30.00	-7.34
1720.00	20	64-QAM	1 / 0	23.21	-1.50	21.71	0.148	30.00	-8.29

Table 7-63. EIRP Data (Band 66)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device				

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	24.96	-1.70	23.26	0.212	33.01	-9.75
1880.00	1.4	QPSK	1 / 5	24.94	-1.70	23.24	0.211	33.01	-9.77
1909.30	1.4	QPSK	1 / 0	25.00	-1.70	23.30	0.214	33.01	-9.71
1909.30	1.4	16-QAM	1 / 5	24.24	-1.70	22.54	0.179	33.01	-10.47
1909.30	1.4	64-QAM	1 / 2	23.24	-1.70	21.54	0.143	33.01	-11.47
1851.50	3	QPSK	1 / 7	24.99	-1.70	23.29	0.213	33.01	-9.72
1880.00	3	QPSK	1 / 7	25.00	-1.70	23.30	0.214	33.01	-9.71
1908.50	3	QPSK	1 / 7	24.89	-1.70	23.19	0.208	33.01	-9.82
1880.00	3	16-QAM	1 / 0	24.15	-1.70	22.45	0.176	33.01	-10.56
1880.00	3	64-QAM	1 / 7	23.39	-1.70	21.69	0.148	33.01	-11.32
1852.50	5	QPSK	1 / 0	24.89	-1.70	23.19	0.208	33.01	-9.82
1880.00	5	QPSK	1 / 12	25.00	-1.70	23.30	0.214	33.01	-9.71
1907.50	5	QPSK	1 / 0	24.73	-1.70	23.03	0.201	33.01	-9.98
1880.00	5	16-QAM	1 / 0	24.15	-1.70	22.45	0.176	33.01	-10.56
1880.00	5	64-QAM	1 / 0	23.13	-1.70	21.43	0.139	33.01	-11.58
1855.00	10	QPSK	1 / 0	24.96	-1.70	23.26	0.212	33.01	-9.75
1880.00	10	QPSK	1 / 0	24.99	-1.70	23.29	0.213	33.01	-9.72
1905.00	10	QPSK	1 / 0	25.00	-1.70	23.30	0.214	33.01	-9.71
1905.00	10	16-QAM	1 / 0	24.17	-1.70	22.47	0.177	33.01	-10.54
1905.00	10	64-QAM	1 / 0	23.25	-1.70	21.55	0.143	33.01	-11.46
1857.50	15	QPSK	1 / 0	25.00	-1.70	23.30	0.214	33.01	-9.71
1880.00	15	QPSK	1 / 0	24.88	-1.70	23.18	0.208	33.01	-9.83
1902.50	15	QPSK	1 / 0	24.93	-1.70	23.23	0.210	33.01	-9.78
1857.50	15	16-QAM	1 / 0	24.21	-1.70	22.51	0.178	33.01	-10.50
1857.50	15	64-QAM	1 / 74	23.20	-1.70	21.50	0.141	33.01	-11.51
1860.00	20	QPSK	1 / 99	24.81	-1.70	23.11	0.205	33.01	-9.90
1880.00	20	QPSK	1 / 0	24.77	-1.70	23.07	0.203	33.01	-9.94
1900.00	20	QPSK	1 / 0	25.00	-1.70	23.30	0.214	33.01	-9.71
1900.00	20	16-QAM	1 / 0	24.22	-1.70	22.52	0.179	33.01	-10.49
1900.00	20	64-QAM	1 / 0	23.30	-1.70	21.60	0.145	33.01	-11.41

Table 7-64. EIRP Data (Band 2)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 279 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	24.89	-1.70	23.19	0.208	33.01	-9.82
1882.50	1.4	QPSK	1 / 0	24.93	-1.70	23.23	0.210	33.01	-9.78
1914.30	1.4	QPSK	1 / 0	25.00	-1.70	23.30	0.214	33.01	-9.71
1914.30	1.4	16-QAM	1 / 0	24.21	-1.70	22.51	0.178	33.01	-10.50
1914.30	1.4	64-QAM	1 / 0	23.29	-1.70	21.59	0.144	33.01	-11.42
1851.50	3	QPSK	1 / 7	25.00	-1.70	23.30	0.214	33.01	-9.71
1882.50	3	QPSK	1 / 7	25.00	-1.70	23.30	0.214	33.01	-9.71
1913.50	3	QPSK	1 / 14	24.85	-1.70	23.15	0.207	33.01	-9.86
1851.50	3	16-QAM	1 / 7	24.20	-1.70	22.50	0.178	33.01	-10.51
1851.50	3	64-QAM	1 / 7	23.28	-1.70	21.58	0.144	33.01	-11.43
1852.50	5	QPSK	1 / 0	24.91	-1.70	23.21	0.209	33.01	-9.80
1882.50	5	QPSK	1 / 24	25.00	-1.70	23.30	0.214	33.01	-9.71
1912.50	5	QPSK	1 / 24	24.79	-1.70	23.09	0.204	33.01	-9.92
1882.50	5	16-QAM	1 / 24	24.17	-1.70	22.47	0.177	33.01	-10.54
1882.50	5	64-QAM	1 / 0	23.27	-1.70	21.57	0.144	33.01	-11.44
1855.00	10	QPSK	1 / 0	24.97	-1.70	23.27	0.212	33.01	-9.74
1882.50	10	QPSK	1 / 49	25.00	-1.70	23.30	0.214	33.01	-9.71
1910.00	10	QPSK	1 / 49	24.90	-1.70	23.20	0.209	33.01	-9.81
1882.50	10	16-QAM	1 / 49	24.29	-1.70	22.59	0.182	33.01	-10.42
1882.50	10	64-QAM	1 / 25	23.30	-1.70	21.60	0.145	33.01	-11.41
1857.50	15	QPSK	1 / 0	25.00	-1.70	23.30	0.214	33.01	-9.71
1882.50	15	QPSK	1 / 74	25.00	-1.70	23.30	0.214	33.01	-9.71
1907.50	15	QPSK	1 / 0	24.90	-1.70	23.20	0.209	33.01	-9.81
1857.50	15	16-QAM	1 / 0	24.21	-1.70	22.51	0.178	33.01	-10.50
1857.50	15	64-QAM	1 / 0	23.12	-1.70	21.42	0.139	33.01	-11.59
1860.00	20	QPSK	1 / 99	24.94	-1.70	23.24	0.211	33.01	-9.77
1882.50	20	QPSK	1 / 99	24.89	-1.70	23.19	0.208	33.01	-9.82
1905.00	20	QPSK	1 / 0	25.00	-1.70	23.30	0.214	33.01	-9.71
1905.00	20	16-QAM	1 / 0	24.21	-1.70	22.51	0.178	33.01	-10.50
1905.00	20	64-QAM	1 / 99	23.19	-1.70	21.49	0.141	33.01	-11.52

Table 7-65. EIRP Data (Band 25)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 280 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 24	23.49	-0.20	23.29	0.213	23.98	-0.69
2312.50	5	QPSK	1 / 0	23.28	-0.20	23.08	0.203	23.98	-0.90
2307.50	5	16-QAM	1 / 24	22.73	-0.20	22.53	0.179	23.98	-1.45
2312.50	5	64-QAM	1 / 0	21.72	-0.20	21.52	0.142	23.98	-2.46
2310.00	10	QPSK	1 / 0	23.50	-0.20	23.30	0.214	23.98	-0.68
2310.00	10	16-QAM	1 / 25	22.77	-0.20	22.57	0.181	23.98	-1.41
2310.00	10	64-QAM	1 / 25	22.06	-0.20	21.86	0.153	23.98	-2.12

Table 7-66. EIRP Data (Band 30)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 281 of 398	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	25.00	0.30	25.30	0.339	33.01	-7.71
2535.00	5	QPSK	1 / 24	24.94	0.30	25.24	0.334	33.01	-7.77
2567.50	5	QPSK	1 / 12	24.74	0.30	25.04	0.319	33.01	-7.97
2502.50	5	16-QAM	1 / 24	24.12	0.30	24.42	0.277	33.01	-8.59
2502.50	5	64-QAM	1 / 24	23.05	0.30	23.35	0.216	33.01	-9.66
2505.00	10	QPSK	1 / 49	25.00	0.30	25.30	0.339	33.01	-7.71
2535.00	10	QPSK	1 / 49	24.90	0.30	25.20	0.331	33.01	-7.81
2565.00	10	QPSK	1 / 49	24.86	0.30	25.16	0.328	33.01	-7.85
2505.00	10	16-QAM	1 / 49	24.05	0.30	24.35	0.272	33.01	-8.66
2505.00	10	64-QAM	1 / 49	23.00	0.30	23.30	0.214	33.01	-9.71
2507.50	15	QPSK	1 / 36	25.00	0.30	25.30	0.339	33.01	-7.71
2535.00	15	QPSK	1 / 74	24.77	0.30	25.07	0.321	33.01	-7.94
2562.50	15	QPSK	1 / 74	24.70	0.30	25.00	0.316	33.01	-8.01
2507.50	15	16-QAM	1 / 36	24.09	0.30	24.39	0.275	33.01	-8.62
2507.50	15	64-QAM	1 / 74	23.17	0.30	23.47	0.222	33.01	-9.54
2510.00	20	QPSK	1 / 50	24.97	0.30	25.27	0.337	33.01	-7.74
2535.00	20	QPSK	1 / 99	24.73	0.30	25.03	0.318	33.01	-7.98
2560.00	20	QPSK	1 / 99	25.00	0.30	25.30	0.339	33.01	-7.71
2560.00	20	16-QAM	1 / 99	23.99	0.30	24.29	0.269	33.01	-8.72
2560.00	20	64-QAM	1 / 99	23.20	0.30	23.50	0.224	33.01	-9.51

Table 7-67. EIRP Data (Band 7)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 282 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 24	26.00	0.30	26.30	0.427	33.01	-6.71
2593.00	5	QPSK	1 / 24	28.00	0.30	28.30	0.676	33.01	-4.71
2687.50	5	QPSK	1 / 24	27.73	0.30	28.03	0.635	33.01	-4.98
2593.00	5	16-QAM	1 / 0	27.00	0.30	27.30	0.537	33.01	-5.71
2593.00	5	64-QAM	1 / 0	25.96	0.30	26.26	0.423	33.01	-6.75
2501.00	10	QPSK	1 / 25	26.00	0.30	26.30	0.427	33.01	-6.71
2593.00	10	QPSK	1 / 49	27.99	0.30	28.29	0.675	33.01	-4.72
2685.00	10	QPSK	1 / 0	27.66	0.30	27.96	0.625	33.01	-5.05
2593.00	10	16-QAM	1 / 49	26.98	0.30	27.28	0.535	33.01	-5.73
2593.00	10	64-QAM	1 / 49	26.16	0.30	26.46	0.443	33.01	-6.55
2503.50	15	QPSK	1 / 36	26.00	0.30	26.30	0.427	33.01	-6.71
2593.00	15	QPSK	1 / 74	28.00	0.30	28.30	0.676	33.01	-4.71
2682.50	15	QPSK	1 / 74	27.61	0.30	27.91	0.618	33.01	-5.10
2593.00	15	16-QAM	1 / 74	26.95	0.30	27.25	0.531	33.01	-5.76
2593.00	15	64-QAM	1 / 0	25.99	0.30	26.29	0.426	33.01	-6.72
2506.00	20	QPSK	1 / 99	26.00	0.30	26.30	0.427	33.01	-6.71
2593.00	20	QPSK	1 / 99	28.00	0.30	28.30	0.676	33.01	-4.71
2680.00	20	QPSK	1 / 99	27.75	0.30	28.05	0.638	33.01	-4.96
2593.00	20	16-QAM	1 / 99	27.13	0.30	27.43	0.553	33.01	-5.58
2593.00	20	64-QAM	1 / 99	26.26	0.30	26.56	0.453	33.01	-6.45

Table 7-68. EIRP Data (Band 41 PC2)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 283 of 398	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	24.30	0.30	24.60	0.288	33.01	-8.41
2593.00	5	QPSK	1 / 24	25.50	0.30	25.80	0.380	33.01	-7.21
2687.50	5	QPSK	1 / 24	25.27	0.30	25.57	0.361	33.01	-7.44
2593.00	5	16-QAM	1 / 24	24.87	0.30	25.17	0.329	33.01	-7.84
2593.00	5	64-QAM	1 / 24	24.18	0.30	24.48	0.281	33.01	-8.53
2501.00	10	QPSK	1 / 49	24.23	0.30	24.53	0.284	33.01	-8.48
2593.00	10	QPSK	1 / 0	25.49	0.30	25.79	0.379	33.01	-7.22
2685.00	10	QPSK	1 / 49	25.36	0.30	25.66	0.368	33.01	-7.35
2593.00	10	16-QAM	1 / 49	25.16	0.30	25.46	0.352	33.01	-7.55
2593.00	10	64-QAM	1 / 0	24.14	0.30	24.44	0.278	33.01	-8.57
2503.50	15	QPSK	1 / 74	24.22	0.30	24.52	0.283	33.01	-8.49
2593.00	15	QPSK	1 / 74	25.49	0.30	25.79	0.379	33.01	-7.22
2682.50	15	QPSK	1 / 74	25.32	0.30	25.62	0.365	33.01	-7.39
2593.00	15	16-QAM	1 / 0	24.81	0.30	25.11	0.324	33.01	-7.90
2593.00	15	64-QAM	1 / 74	23.97	0.30	24.27	0.267	33.01	-8.74
2506.00	20	QPSK	1 / 99	24.19	0.30	24.49	0.281	33.01	-8.52
2593.00	20	QPSK	1 / 0	25.46	0.30	25.76	0.377	33.01	-7.25
2680.00	20	QPSK	1 / 99	25.35	0.30	25.65	0.367	33.01	-7.36
2593.00	20	16-QAM	1 / 0	25.05	0.30	25.35	0.343	33.01	-7.66
2593.00	20	64-QAM	1 / 0	24.07	0.30	24.37	0.274	33.01	-8.64

Table 7-69. EIRP Data (Band 41 PC3)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device				

7.8.4 Port-D Radiated Power (ERP/EIRP)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	22.83	-1.20	21.63	0.146	30.00	-8.37
1732.50	1.4	QPSK	1 / 5	22.83	-1.20	21.63	0.146	30.00	-8.37
1754.30	1.4	QPSK	1 / 0	23.00	-1.20	21.80	0.151	30.00	-8.20
1754.30	1.4	16-QAM	1 / 2	22.14	-1.20	20.94	0.124	30.00	-9.06
1754.30	1.4	64-QAM	1 / 0	21.12	-1.20	19.92	0.098	30.00	-10.08
1711.50	3	QPSK	1 / 7	22.94	-1.20	21.74	0.149	30.00	-8.26
1732.50	3	QPSK	1 / 7	22.95	-1.20	21.75	0.150	30.00	-8.25
1753.50	3	QPSK	1 / 7	23.00	-1.20	21.80	0.151	30.00	-8.20
1753.50	3	16-QAM	1 / 7	22.14	-1.20	20.94	0.124	30.00	-9.06
1753.50	3	64-QAM	1 / 7	21.31	-1.20	20.11	0.103	30.00	-9.89
1712.50	5	QPSK	1 / 0	22.88	-1.20	21.68	0.147	30.00	-8.32
1732.50	5	QPSK	1 / 0	23.00	-1.20	21.80	0.151	30.00	-8.20
1752.50	5	QPSK	1 / 24	22.80	-1.20	21.60	0.145	30.00	-8.40
1732.50	5	16-QAM	1 / 0	22.18	-1.20	20.98	0.125	30.00	-9.02
1732.50	5	64-QAM	1 / 0	21.22	-1.20	20.02	0.100	30.00	-9.98
1715.00	10	QPSK	1 / 49	22.98	-1.20	21.78	0.151	30.00	-8.22
1732.50	10	QPSK	1 / 0	22.98	-1.20	21.78	0.151	30.00	-8.22
1750.00	10	QPSK	1 / 49	23.00	-1.20	21.80	0.151	30.00	-8.20
1750.00	10	16-QAM	1 / 49	22.29	-1.20	21.09	0.129	30.00	-8.91
1750.00	10	64-QAM	1 / 49	21.21	-1.20	20.01	0.100	30.00	-9.99
1717.50	15	QPSK	1 / 36	23.00	-1.20	21.80	0.151	30.00	-8.20
1732.50	15	QPSK	1 / 36	22.83	-1.20	21.63	0.146	30.00	-8.37
1747.50	15	QPSK	1 / 74	22.88	-1.20	21.68	0.147	30.00	-8.32
1717.50	15	16-QAM	1 / 0	22.22	-1.20	21.02	0.126	30.00	-8.98
1717.50	15	64-QAM	1 / 74	21.08	-1.20	19.88	0.097	30.00	-10.12
1720.00	20	QPSK	1 / 99	22.78	-1.20	21.58	0.144	30.00	-8.42
1732.50	20	QPSK	1 / 0	22.97	-1.20	21.77	0.150	30.00	-8.23
1745.00	20	QPSK	1 / 99	23.00	-1.20	21.80	0.151	30.00	-8.20
1745.00	20	16-QAM	1 / 99	22.21	-1.20	21.01	0.126	30.00	-8.99
1745.00	20	64-QAM	1 / 50	21.00	-1.20	19.80	0.095	30.00	-10.20

Table 7-70. EIRP Data (Band 4)

FCC ID: BCGA2230	PCTEST® MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 285 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	1 / 5	22.72	-1.20	21.52	0.142	30.00	-8.48
1745.00	1.4	QPSK	1 / 5	22.55	-1.20	21.35	0.136	30.00	-8.65
1779.30	1.4	QPSK	1 / 5	23.00	-1.20	21.80	0.151	30.00	-8.20
1779.30	1.4	16-QAM	1 / 5	22.22	-1.20	21.02	0.126	30.00	-8.98
1779.30	1.4	64-QAM	1 / 5	21.12	-1.20	19.92	0.098	30.00	-10.08
1711.50	3	QPSK	1 / 7	22.87	-1.20	21.67	0.147	30.00	-8.33
1745.00	3	QPSK	1 / 7	22.73	-1.20	21.53	0.142	30.00	-8.47
1778.50	3	QPSK	1 / 14	23.00	-1.20	21.80	0.151	30.00	-8.20
1778.50	3	16-QAM	1 / 14	22.16	-1.20	20.96	0.125	30.00	-9.04
1778.50	3	64-QAM	1 / 7	21.32	-1.20	20.12	0.103	30.00	-9.88
1712.50	5	QPSK	1 / 0	22.97	-1.20	21.77	0.150	30.00	-8.23
1745.00	5	QPSK	1 / 24	22.91	-1.20	21.71	0.148	30.00	-8.29
1777.50	5	QPSK	1 / 24	23.00	-1.20	21.80	0.151	30.00	-8.20
1777.50	5	16-QAM	1 / 24	22.21	-1.20	21.01	0.126	30.00	-8.99
1777.50	5	64-QAM	1 / 24	21.40	-1.20	20.20	0.105	30.00	-9.80
1715.00	10	QPSK	1 / 49	22.91	-1.20	21.71	0.148	30.00	-8.29
1745.00	10	QPSK	1 / 49	22.77	-1.20	21.57	0.144	30.00	-8.43
1775.00	10	QPSK	1 / 49	23.00	-1.20	21.80	0.151	30.00	-8.20
1775.00	10	16-QAM	1 / 0	22.15	-1.20	20.95	0.124	30.00	-9.05
1775.00	10	64-QAM	1 / 49	21.54	-1.20	20.34	0.108	30.00	-9.66
1717.50	15	QPSK	1 / 74	23.00	-1.20	21.80	0.151	30.00	-8.20
1745.00	15	QPSK	1 / 74	22.79	-1.20	21.59	0.144	30.00	-8.41
1772.50	15	QPSK	1 / 74	22.89	-1.20	21.69	0.148	30.00	-8.31
1717.50	15	16-QAM	1 / 36	22.23	-1.20	21.03	0.127	30.00	-8.97
1717.50	15	64-QAM	1 / 0	21.11	-1.20	19.91	0.098	30.00	-10.09
1720.00	20	QPSK	1 / 99	22.96	-1.20	21.76	0.150	30.00	-8.24
1745.00	20	QPSK	1 / 99	22.72	-1.20	21.52	0.142	30.00	-8.48
1770.00	20	QPSK	1 / 99	23.00	-1.20	21.80	0.151	30.00	-8.20
1770.00	20	16-QAM	1 / 99	22.08	-1.20	20.88	0.122	30.00	-9.12
1770.00	20	64-QAM	1 / 99	21.26	-1.20	20.06	0.101	30.00	-9.94

Table 7-71. EIRP Data (Band 66)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 286 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	22.75	-0.30	22.45	0.176	33.01	-10.56
1880.00	1.4	QPSK	1 / 0	22.80	-0.30	22.50	0.178	33.01	-10.51
1909.30	1.4	QPSK	1 / 0	23.00	-0.30	22.70	0.186	33.01	-10.31
1909.30	1.4	16-QAM	1 / 0	22.13	-0.30	21.83	0.152	33.01	-11.18
1909.30	1.4	64-QAM	1 / 2	21.15	-0.30	20.85	0.122	33.01	-12.16
1851.50	3	QPSK	1 / 7	22.91	-0.30	22.61	0.182	33.01	-10.40
1880.00	3	QPSK	1 / 7	22.87	-0.30	22.57	0.181	33.01	-10.44
1908.50	3	QPSK	1 / 7	23.00	-0.30	22.70	0.186	33.01	-10.31
1908.50	3	16-QAM	1 / 7	22.16	-0.30	21.86	0.153	33.01	-11.15
1908.50	3	64-QAM	1 / 7	21.41	-0.30	21.11	0.129	33.01	-11.90
1852.50	5	QPSK	1 / 24	22.91	-0.30	22.61	0.182	33.01	-10.40
1880.00	5	QPSK	1 / 24	23.00	-0.30	22.70	0.186	33.01	-10.31
1907.50	5	QPSK	1 / 24	22.90	-0.30	22.60	0.182	33.01	-10.41
1880.00	5	16-QAM	1 / 24	22.24	-0.30	21.94	0.156	33.01	-11.07
1880.00	5	64-QAM	1 / 24	21.17	-0.30	20.87	0.122	33.01	-12.14
1855.00	10	QPSK	1 / 49	23.00	-0.30	22.70	0.186	33.01	-10.31
1880.00	10	QPSK	1 / 49	22.88	-0.30	22.58	0.181	33.01	-10.43
1905.00	10	QPSK	1 / 49	22.95	-0.30	22.65	0.184	33.01	-10.36
1855.00	10	16-QAM	1 / 49	22.24	-0.30	21.94	0.156	33.01	-11.07
1855.00	10	64-QAM	1 / 25	21.20	-0.30	20.90	0.123	33.01	-12.11
1857.50	15	QPSK	1 / 36	23.00	-0.30	22.70	0.186	33.01	-10.31
1880.00	15	QPSK	1 / 36	22.85	-0.30	22.55	0.180	33.01	-10.46
1902.50	15	QPSK	1 / 74	22.92	-0.30	22.62	0.183	33.01	-10.39
1857.50	15	16-QAM	1 / 0	22.14	-0.30	21.84	0.153	33.01	-11.17
1857.50	15	64-QAM	1 / 74	21.25	-0.30	20.95	0.124	33.01	-12.06
1860.00	20	QPSK	1 / 50	22.81	-0.30	22.51	0.178	33.01	-10.50
1880.00	20	QPSK	1 / 0	22.63	-0.30	22.33	0.171	33.01	-10.68
1900.00	20	QPSK	1 / 99	23.00	-0.30	22.70	0.186	33.01	-10.31
1900.00	20	16-QAM	1 / 99	22.15	-0.30	21.85	0.153	33.01	-11.16
1900.00	20	64-QAM	1 / 99	21.13	-0.30	20.83	0.121	33.01	-12.18

Table 7-72. EIRP Data (Band 2)

FCC ID: BCGA2230	PCTEST® MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 287 of 398	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	1 / 5	22.68	-0.30	22.38	0.173	33.01	-10.63
1882.50	1.4	QPSK	1 / 0	22.66	-0.30	22.36	0.172	33.01	-10.65
1914.30	1.4	QPSK	1 / 0	23.00	-0.30	22.70	0.186	33.01	-10.31
1914.30	1.4	16-QAM	1 / 0	22.22	-0.30	21.92	0.156	33.01	-11.09
1914.30	1.4	64-QAM	1 / 0	21.23	-0.30	20.93	0.124	33.01	-12.08
1851.50	3	QPSK	1 / 7	22.98	-0.30	22.68	0.185	33.01	-10.33
1882.50	3	QPSK	1 / 7	22.94	-0.30	22.64	0.184	33.01	-10.37
1913.50	3	QPSK	1 / 0	23.00	-0.30	22.70	0.186	33.01	-10.31
1913.50	3	16-QAM	1 / 7	22.32	-0.30	22.02	0.159	33.01	-10.99
1913.50	3	64-QAM	1 / 0	21.44	-0.30	21.14	0.130	33.01	-11.87
1852.50	5	QPSK	1 / 24	22.91	-0.30	22.61	0.182	33.01	-10.40
1882.50	5	QPSK	1 / 24	23.00	-0.30	22.70	0.186	33.01	-10.31
1912.50	5	QPSK	1 / 12	22.95	-0.30	22.65	0.184	33.01	-10.36
1882.50	5	16-QAM	1 / 12	22.20	-0.30	21.90	0.155	33.01	-11.11
1882.50	5	64-QAM	1 / 24	21.14	-0.30	20.84	0.121	33.01	-12.17
1855.00	10	QPSK	1 / 49	23.00	-0.30	22.70	0.186	33.01	-10.31
1882.50	10	QPSK	1 / 0	22.89	-0.30	22.59	0.182	33.01	-10.42
1910.00	10	QPSK	1 / 0	22.93	-0.30	22.63	0.183	33.01	-10.38
1855.00	10	16-QAM	1 / 49	22.22	-0.30	21.92	0.156	33.01	-11.09
1855.00	10	64-QAM	1 / 49	21.20	-0.30	20.90	0.123	33.01	-12.11
1857.50	15	QPSK	1 / 36	23.00	-0.30	22.70	0.186	33.01	-10.31
1882.50	15	QPSK	1 / 36	22.83	-0.30	22.53	0.179	33.01	-10.48
1907.50	15	QPSK	1 / 36	22.86	-0.30	22.56	0.180	33.01	-10.45
1857.50	15	16-QAM	1 / 0	22.29	-0.30	21.99	0.158	33.01	-11.02
1857.50	15	64-QAM	1 / 74	21.23	-0.30	20.93	0.124	33.01	-12.08
1860.00	20	QPSK	1 / 50	22.79	-0.30	22.49	0.177	33.01	-10.52
1882.50	20	QPSK	1 / 0	22.65	-0.30	22.35	0.172	33.01	-10.66
1905.00	20	QPSK	1 / 99	23.00	-0.30	22.70	0.186	33.01	-10.31
1905.00	20	16-QAM	1 / 99	22.08	-0.30	21.78	0.151	33.01	-11.23
1905.00	20	64-QAM	1 / 99	21.14	-0.30	20.84	0.121	33.01	-12.17

Table 7-73. EIRP Data (Band 25)

FCC ID: BCGA2230	 PCTEST	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]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2307.50	5	QPSK	1 / 0	22.50	0.40	22.90	0.195	23.98	-1.08
2312.50	5	QPSK	1 / 24	22.38	0.40	22.78	0.190	23.98	-1.20
2307.50	5	16-QAM	1 / 0	21.67	0.40	22.07	0.161	23.98	-1.91
2307.50	5	64-QAM	1 / 0	20.61	0.40	21.01	0.126	23.98	-2.97
2310.00	10	QPSK	1 / 49	22.50	0.40	22.90	0.195	23.98	-1.08
2310.00	10	16-QAM	1 / 49	21.72	0.40	22.12	0.163	23.98	-1.86
2310.00	10	64-QAM	1 / 0	21.00	0.40	21.40	0.138	23.98	-2.58

Table 7-74. EIRP Data (Band 30)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 289 of 398	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2502.50	5	QPSK	1 / 24	22.66	0.50	23.16	0.207	33.01	-9.85
2535.00	5	QPSK	1 / 24	23.00	0.50	23.50	0.224	33.01	-9.51
2567.50	5	QPSK	1 / 24	22.66	0.50	23.16	0.207	33.01	-9.85
2535.00	5	16-QAM	1 / 12	22.02	0.50	22.52	0.179	33.01	-10.49
2535.00	5	64-QAM	1 / 24	21.04	0.50	21.54	0.143	33.01	-11.47
2505.00	10	QPSK	1 / 49	22.95	0.50	23.45	0.221	33.01	-9.56
2535.00	10	QPSK	1 / 49	23.00	0.50	23.50	0.224	33.01	-9.51
2565.00	10	QPSK	1 / 49	22.79	0.50	23.29	0.213	33.01	-9.72
2535.00	10	16-QAM	1 / 49	22.12	0.50	22.62	0.183	33.01	-10.39
2535.00	10	64-QAM	1 / 49	21.19	0.50	21.69	0.148	33.01	-11.32
2507.50	15	QPSK	1 / 74	23.00	0.50	23.50	0.224	33.01	-9.51
2535.00	15	QPSK	1 / 74	22.88	0.50	23.38	0.218	33.01	-9.63
2562.50	15	QPSK	1 / 74	22.70	0.50	23.20	0.209	33.01	-9.81
2507.50	15	16-QAM	1 / 74	22.18	0.50	22.68	0.185	33.01	-10.33
2507.50	15	64-QAM	1 / 74	20.99	0.50	21.49	0.141	33.01	-11.52
2510.00	20	QPSK	1 / 99	23.00	0.50	23.50	0.224	33.01	-9.51
2535.00	20	QPSK	1 / 99	22.94	0.50	23.44	0.221	33.01	-9.57
2560.00	20	QPSK	1 / 99	22.70	0.50	23.20	0.209	33.01	-9.81
2510.00	20	16-QAM	1 / 99	22.19	0.50	22.69	0.186	33.01	-10.32
2510.00	20	64-QAM	1 / 99	21.18	0.50	21.68	0.147	33.01	-11.33

Table 7-75. EIRP Data (Band 7)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 290 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	23.49	0.50	23.99	0.251	33.01	-9.02
2593.00	5	QPSK	1 / 12	25.39	0.50	25.89	0.388	33.01	-7.12
2687.50	5	QPSK	1 / 0	25.30	0.50	25.80	0.380	33.01	-7.21
2593.00	5	16-QAM	1 / 24	24.90	0.50	25.40	0.347	33.01	-7.61
2593.00	5	64-QAM	1 / 12	23.96	0.50	24.46	0.279	33.01	-8.55
2501.00	10	QPSK	1 / 0	23.50	0.50	24.00	0.251	33.01	-9.01
2593.00	10	QPSK	1 / 25	25.45	0.50	25.95	0.394	33.01	-7.06
2685.00	10	QPSK	1 / 49	25.33	0.50	25.83	0.383	33.01	-7.18
2593.00	10	16-QAM	1 / 0	24.80	0.50	25.30	0.339	33.01	-7.71
2593.00	10	64-QAM	1 / 49	23.79	0.50	24.29	0.269	33.01	-8.72
2503.50	15	QPSK	1 / 0	23.50	0.50	24.00	0.251	33.01	-9.01
2593.00	15	QPSK	1 / 36	25.50	0.50	26.00	0.398	33.01	-7.01
2682.50	15	QPSK	1 / 74	25.27	0.50	25.77	0.378	33.01	-7.24
2593.00	15	16-QAM	1 / 36	24.65	0.50	25.15	0.327	33.01	-7.86
2593.00	15	64-QAM	1 / 74	23.72	0.50	24.22	0.264	33.01	-8.79
2506.00	20	QPSK	1 / 0	23.41	0.50	23.91	0.246	33.01	-9.10
2593.00	20	QPSK	1 / 50	25.49	0.50	25.99	0.397	33.01	-7.02
2680.00	20	QPSK	1 / 99	25.30	0.50	25.80	0.380	33.01	-7.21
2593.00	20	16-QAM	1 / 50	24.94	0.50	25.44	0.350	33.01	-7.57
2593.00	20	64-QAM	1 / 99	24.09	0.50	24.59	0.288	33.01	-8.42

Table 7-76. EIRP Data (Band 41 PC2)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			Page 291 of 398

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	1 / 0	22.50	0.50	23.00	0.200	33.01	-10.01
2593.00	5	QPSK	1 / 24	22.45	0.50	22.95	0.197	33.01	-10.06
2687.50	5	QPSK	1 / 0	22.33	0.50	22.83	0.192	33.01	-10.18
2593.00	5	16-QAM	1 / 24	21.99	0.50	22.49	0.177	33.01	-10.52
2593.00	5	64-QAM	1 / 12	20.96	0.50	21.46	0.140	33.01	-11.55
2501.00	10	QPSK	1 / 0	22.50	0.50	23.00	0.200	33.01	-10.01
2593.00	10	QPSK	1 / 49	22.50	0.50	23.00	0.200	33.01	-10.01
2685.00	10	QPSK	1 / 49	22.42	0.50	22.92	0.196	33.01	-10.09
2593.00	10	16-QAM	1 / 0	21.83	0.50	22.33	0.171	33.01	-10.68
2593.00	10	64-QAM	1 / 49	20.88	0.50	21.38	0.137	33.01	-11.63
2503.50	15	QPSK	1 / 0	22.50	0.50	23.00	0.200	33.01	-10.01
2593.00	15	QPSK	1 / 36	22.50	0.50	23.00	0.200	33.01	-10.01
2682.50	15	QPSK	1 / 74	22.36	0.50	22.86	0.193	33.01	-10.15
2593.00	15	16-QAM	1 / 0	21.65	0.50	22.15	0.164	33.01	-10.86
2593.00	15	64-QAM	1 / 74	20.81	0.50	21.31	0.135	33.01	-11.70
2506.00	20	QPSK	1 / 99	22.45	0.50	22.95	0.197	33.01	-10.06
2593.00	20	QPSK	1 / 0	22.50	0.50	23.00	0.200	33.01	-10.01
2680.00	20	QPSK	1 / 99	22.39	0.50	22.89	0.195	33.01	-10.12
2593.00	20	16-QAM	1 / 50	21.94	0.50	22.44	0.175	33.01	-10.57
2593.00	20	64-QAM	1 / 99	21.18	0.50	21.68	0.147	33.01	-11.33

Table 7-77. EIRP Data (Band 41 PC3)

FCC ID: BCGA2230	PCTEST® MEASUREMENT REPORT (CERTIFICATION)				Approved by: Quality Manager
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7.9 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

Test Settings

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

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Test Setup

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

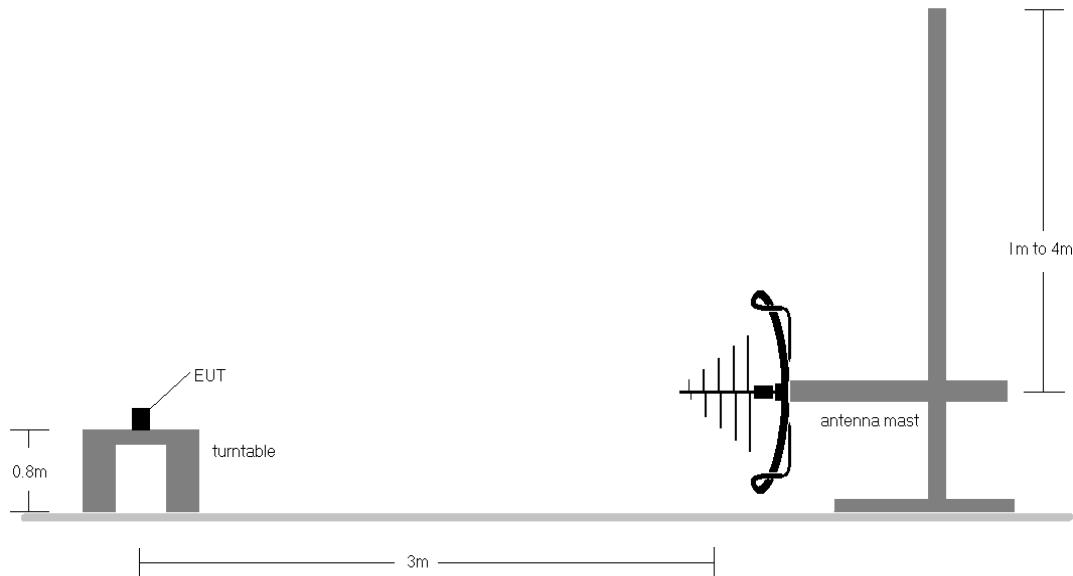


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

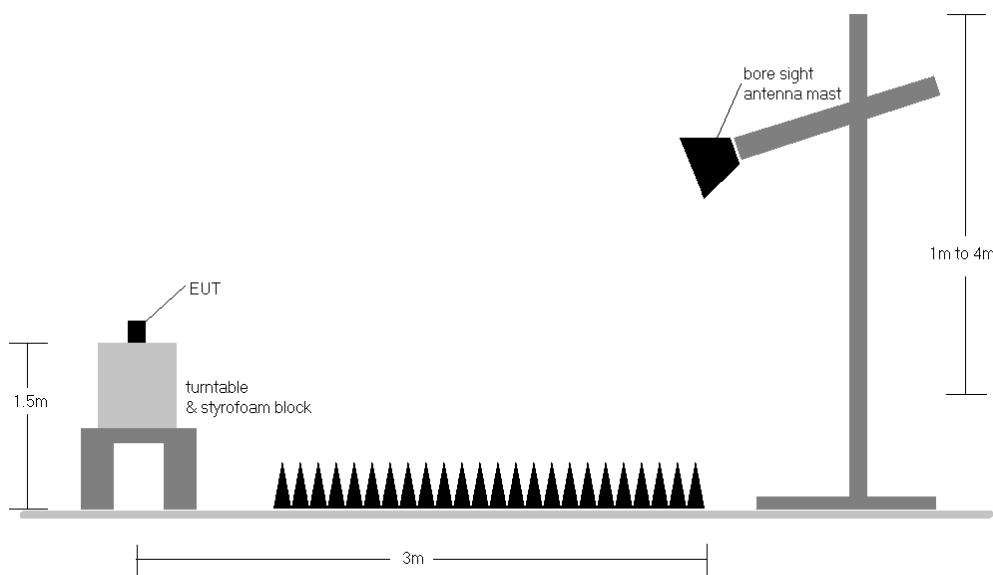


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

FCC ID: BCGA2230	 PCTEST		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device		Page 294 of 398

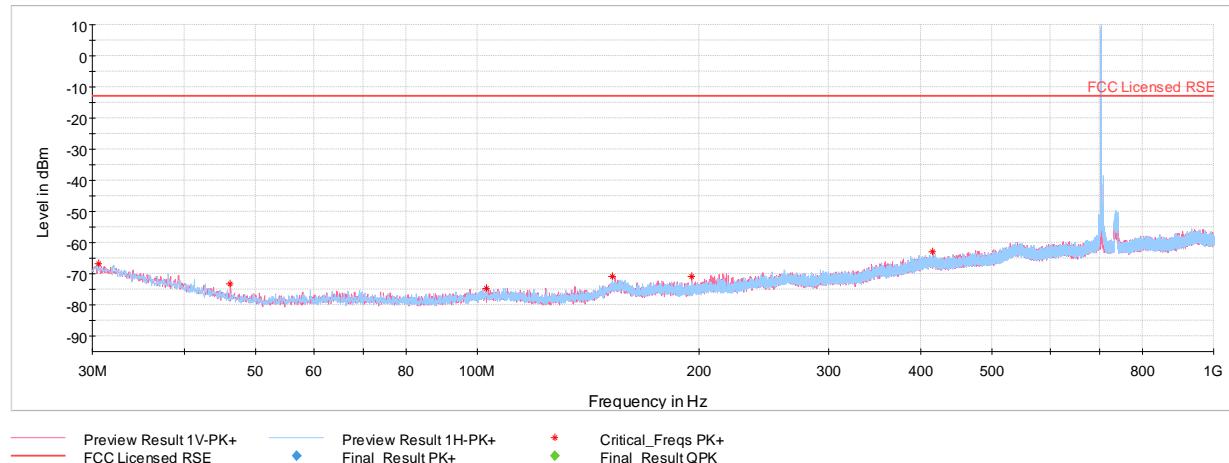
Test Notes

- 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) Below 1GHz pre-scan plot shows no significant emissions.

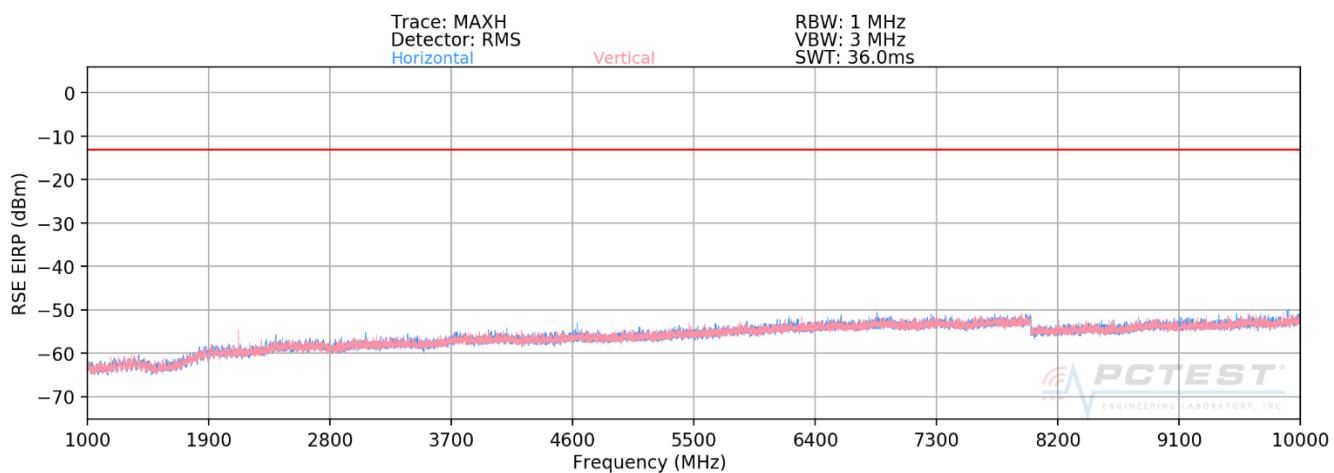
FCC ID: BCGA2230	 PCTEST[®]		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device		Page 295 of 398

7.9.1 ANT 3 (Port-A) Radiated Spurious Emissions Measurements

Band 12/17



Plot 7-419. Radiated Spurious Plot below 1GHz (Band 12/17)



Plot 7-420. Radiated Spurious Plot above 1GHz (Band 12/17)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 296 of 398



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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	V	-	-	-72.71	4.35	-68.36	-55.4
2112.00	V	-	-	-69.80	5.05	-64.74	-51.7
2816.00	V	-	-	-71.25	6.90	-64.36	-51.4

Table 7-78. Radiated Spurious Data (Band 12/17 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	V	-	-	-72.39	4.42	-67.97	-55.0
2122.50	V	-	-	-70.80	5.22	-65.58	-52.6
2830.00	V	-	-	-71.65	7.01	-64.64	-51.6

Table 7-79. Radiated Spurious Data (Band 12/17 – Mid Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 297 of 398	



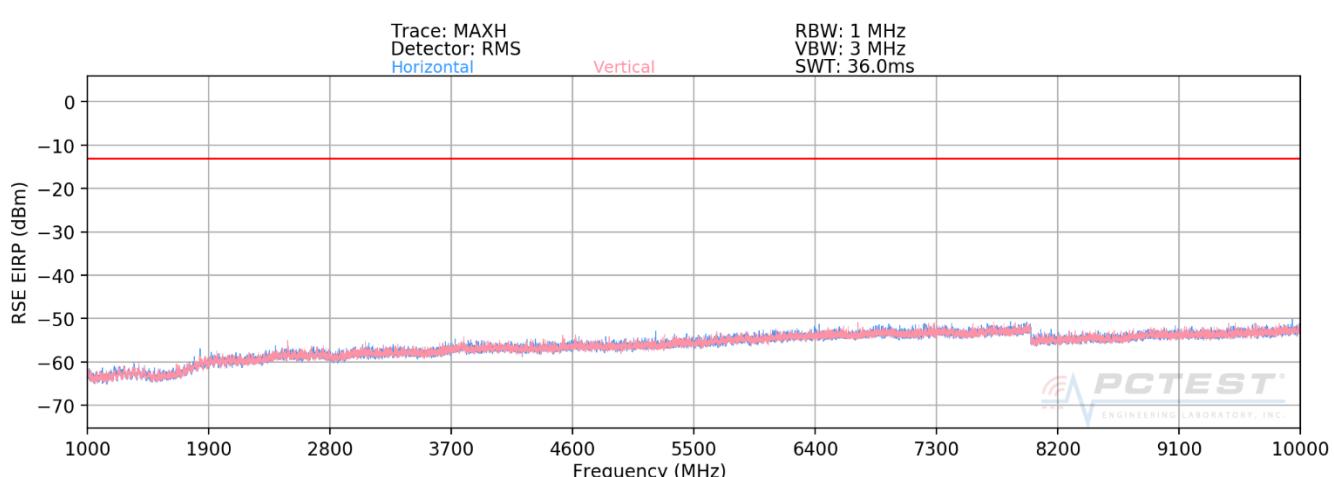
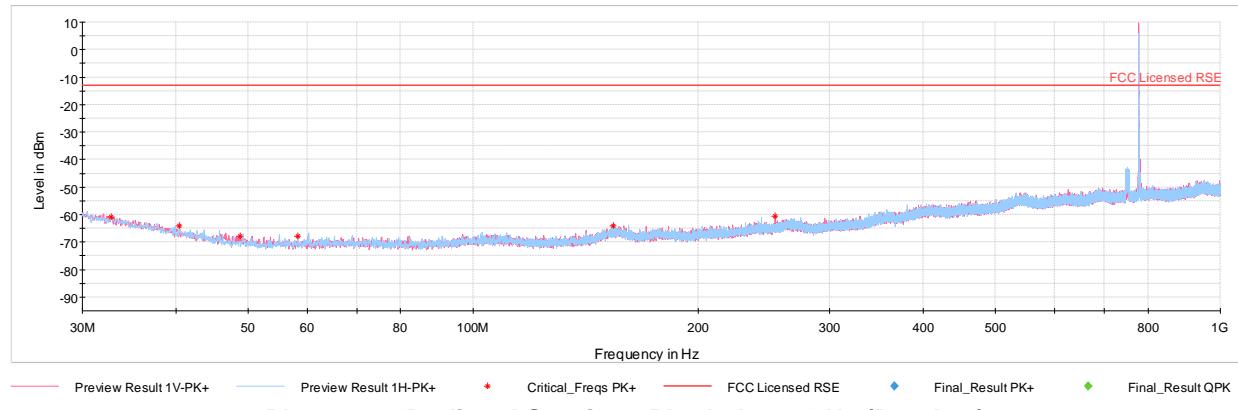
OPERATING FREQUENCY: 711.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	V	-	-	-72.15	4.50	-67.65	-54.7
2133.00	V	145	238	-68.93	5.34	-63.59	-50.6
2844.00	V	-	-	-71.76	7.06	-64.70	-51.7
3555.00	V	-	-	-71.00	7.98	-63.02	-50.0
4266.00	V	-	-	-71.32	9.23	-62.09	-49.1

Table 7-80. Radiated Spurious Data (Band 12/17 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 298 of 398	

Band 13



FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 299 of 398



OPERATING FREQUENCY: 779.50 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	V	-	-	-71.03	6.21	-64.83	-51.8
3118.00	V	-	-	-71.07	7.46	-63.62	-50.6

Table 7-81. Radiated Spurious Data (Band 13 – Low Channel)

OPERATING FREQUENCY: 782.00 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	V	-	-	-70.85	6.22	-64.62	-51.6
3128.00	V	-	-	-70.96	7.50	-63.46	-50.5

Table 7-82. Radiated Spurious Data (Band 13 – Mid Channel)

OPERATING FREQUENCY: 784.50 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	V	-	-	-70.50	6.22	-64.29	-51.3
3138.00	V	-	-	-70.97	7.54	-63.43	-50.4

Table 7-83. Radiated Spurious Data (Band 13 – High Channel)

FCC ID: BCGA2230	PCTEST MEASUREMENT REPORT (CERTIFICATION)					Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device				Page 300 of 398



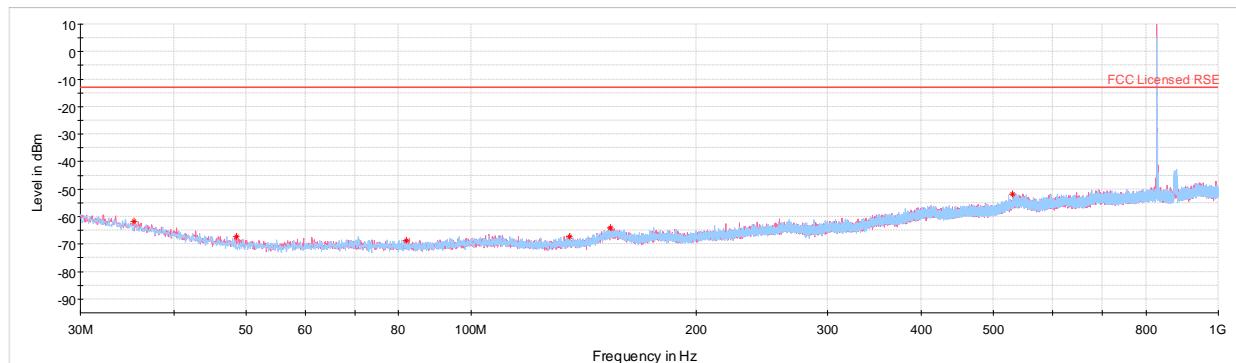
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.00 MHz
DISTANCE: 3 meters
NARROWBAND EMISSION LIMIT: -50 dBm
WIDEBAND EMISSION LIMIT: -40 dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	V	-	-	-74.40	5.80	-68.60	-28.6
1564.00	V	-	-	-74.55	5.82	-68.74	-28.7
1569.00	V	-	-	-74.50	5.82	-68.68	-28.7

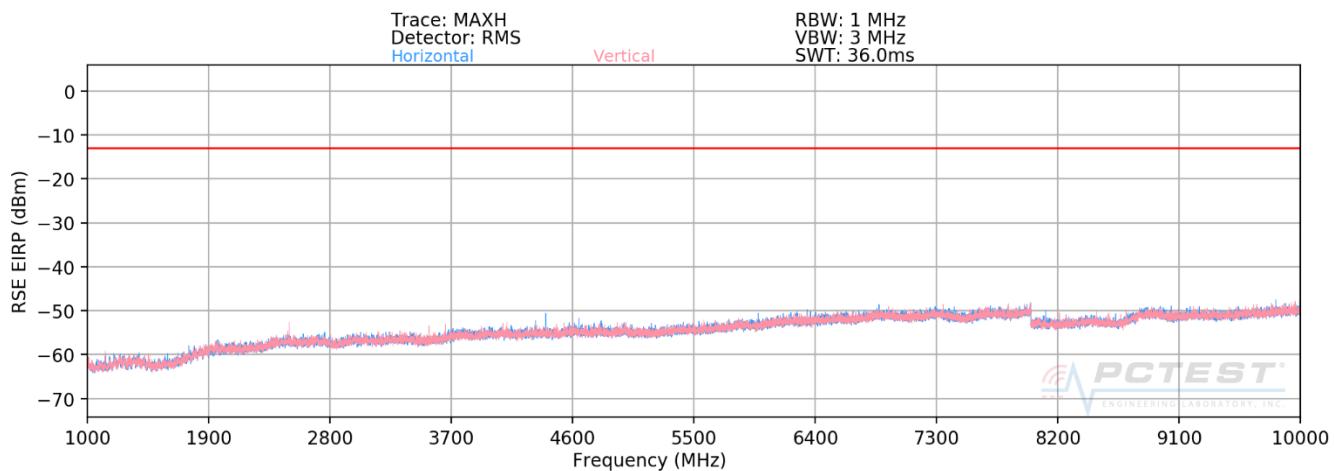
Table 7-84. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 301 of 398	

Band 26/5



Plot 7-423. Radiated Spurious Plot below 1GHz (Band 26/5)



Plot 7-424. Radiated Spurious Plot above 1GHz (Band 26/5)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 302 of 398



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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	V	-	-	-73.79	5.50	-68.29	-55.3
2487.00	V	-	-	-69.84	5.92	-63.92	-50.9
3316.00	V	-	-	-71.06	7.87	-63.19	-50.2

Table 7-85. 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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	V	-	-	-73.51	5.60	-67.91	-54.9
2509.50	V	-	-	-69.93	5.90	-64.03	-51.0
3346.00	V	-	-	-71.06	7.95	-63.11	-50.1

Table 7-86. Radiated Spurious Data (Band 26/5 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 303 of 398



OPERATING FREQUENCY: 844.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

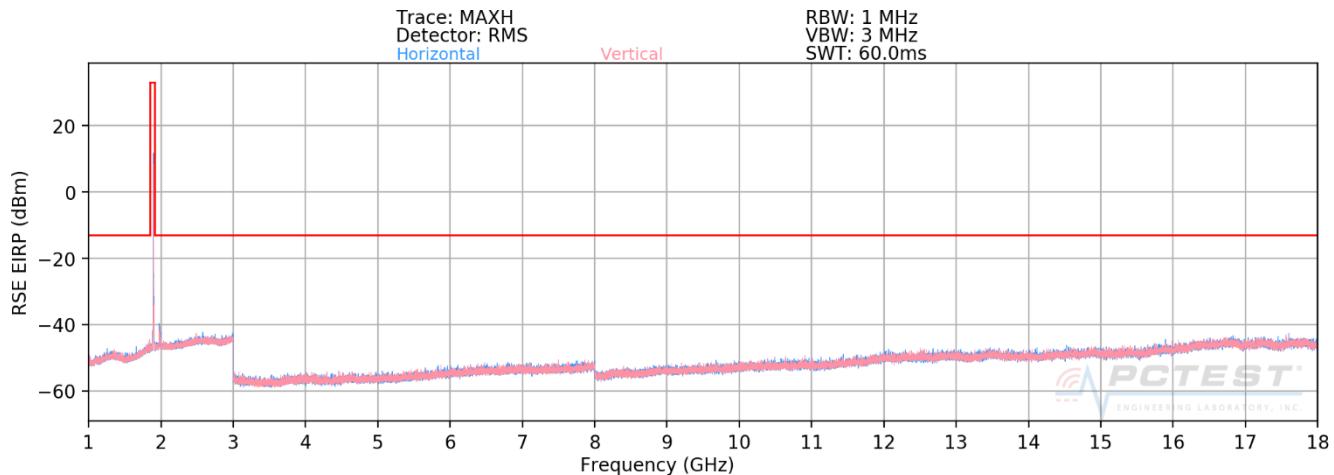
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	V	-	-	-73.46	5.65	-67.81	-54.8
2532.00	V	-	-	-70.08	5.93	-64.16	-51.2
3376.00	V	-	-	-71.38	8.04	-63.34	-50.3

Table 7-87. Radiated Spurious Data (Band 26/5 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 304 of 398	

7.9.2 ANT 4b (Port-A) Radiated Spurious Emissions Measurements

Band 66/4



Plot 7-425. Radiated Spurious Plot 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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-70.59	8.12	-62.47	-49.5
5160.00	H	-	-	-71.68	10.14	-61.54	-48.5
6880.00	H	-	-	-70.88	11.38	-59.50	-46.5

Table 7-88. Radiated Spurious Data (Band 66/4 – Low Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 305 of 398	

OPERATING FREQUENCY: 1745.00 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-70.89	8.09	-62.80	-49.8
5235.00	H	-	-	-71.84	10.26	-61.58	-48.6
6980.00	H	-	-	-71.17	11.47	-59.71	-46.7

Table 7-89. Radiated Spurious Data (Band 66/4 – Mid Channel)

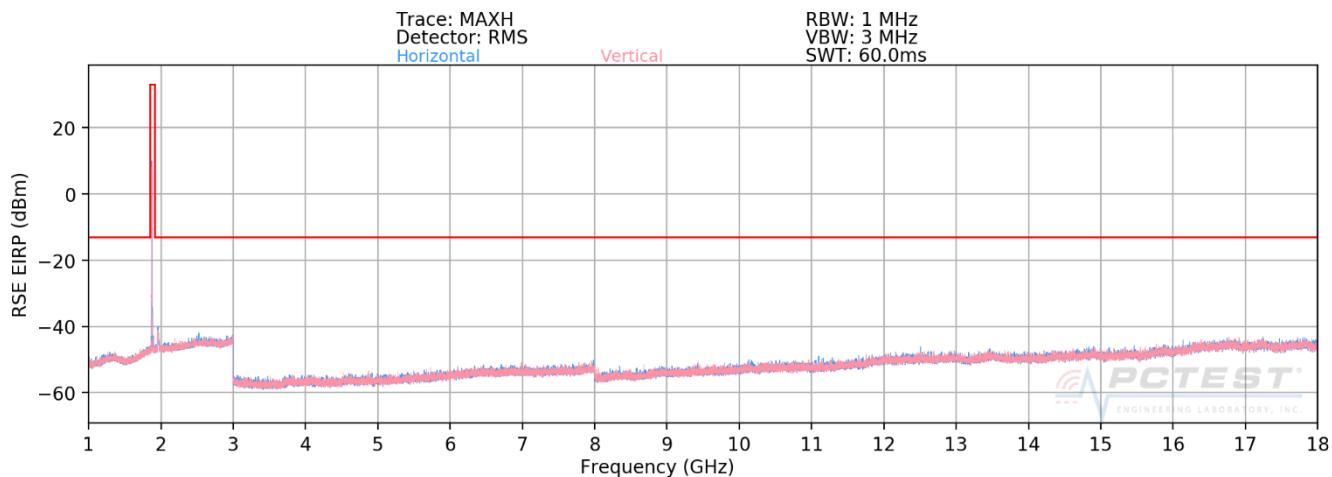
OPERATING FREQUENCY: 1770.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-70.54	7.99	-62.55	-49.5
5310.00	H	-	-	-71.81	10.28	-61.53	-48.5
7080.00	H	-	-	-71.33	11.58	-59.76	-46.8

Table 7-90. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 306 of 398	

Band 25/2



Plot 7-426. Radiated Spurious Plot 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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	V	-	-	-71.04	8.43	-62.61	-49.6
5580.00	V	138	317	-69.83	10.72	-59.11	-46.1
7440.00	V	-	-	-71.46	11.90	-59.56	-46.6
9300.00	V	-	-	-72.14	13.27	-58.86	-45.9
11160.00	V	-	-	-70.19	13.20	-56.98	-44.0

Table 7-91. Radiated Spurious Data (Band 25/2 – Low Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device		



OPERATING FREQUENCY: 1882.50 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	V	-	-	-70.63	8.48	-62.15	-49.2
5647.50	V	275	174	-69.03	10.69	-58.34	-45.3
7530.00	V	-	-	-71.47	11.99	-59.49	-46.5
9412.50	V	-	-	-72.14	13.36	-58.78	-45.8
11295.00	V	-	-	-70.99	13.24	-57.76	-44.8

Table 7-92. Radiated Spurious Data (Band 25/2 – Mid Channel)

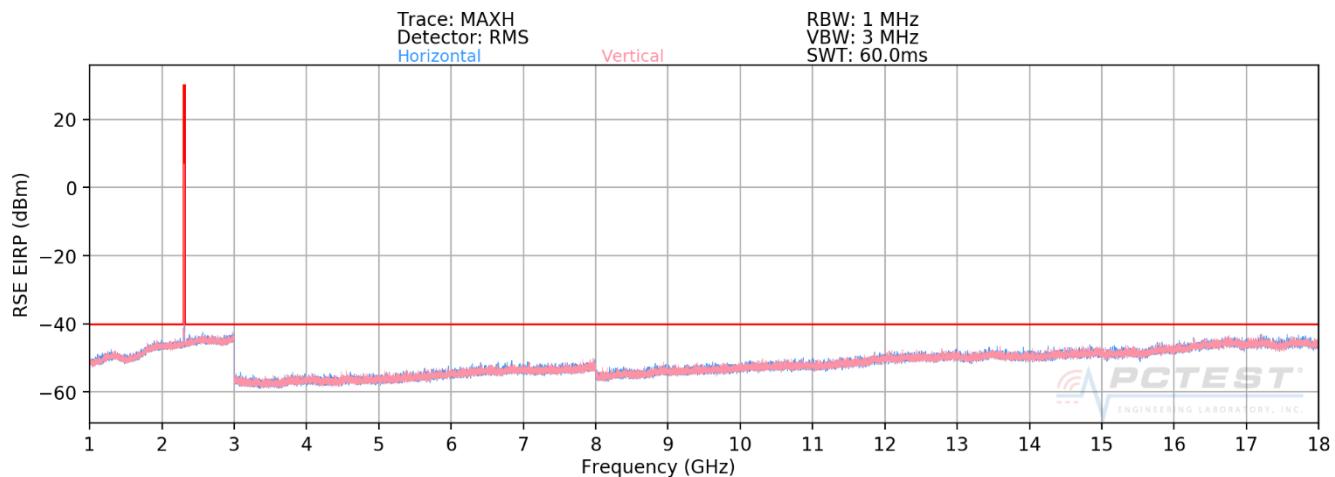
OPERATING FREQUENCY: 1905.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	V	-	-	-70.66	8.59	-62.06	-49.1
5715.00	V	271	162	-68.54	10.66	-57.88	-44.9
7620.00	V	-	-	-71.79	12.16	-59.63	-46.6
9525.00	V	-	-	-72.42	13.23	-59.20	-46.2
11430.00	V	-	-	-70.79	13.28	-57.51	-44.5

Table 7-93. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2230	PCTEST [®] MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 308 of 398	

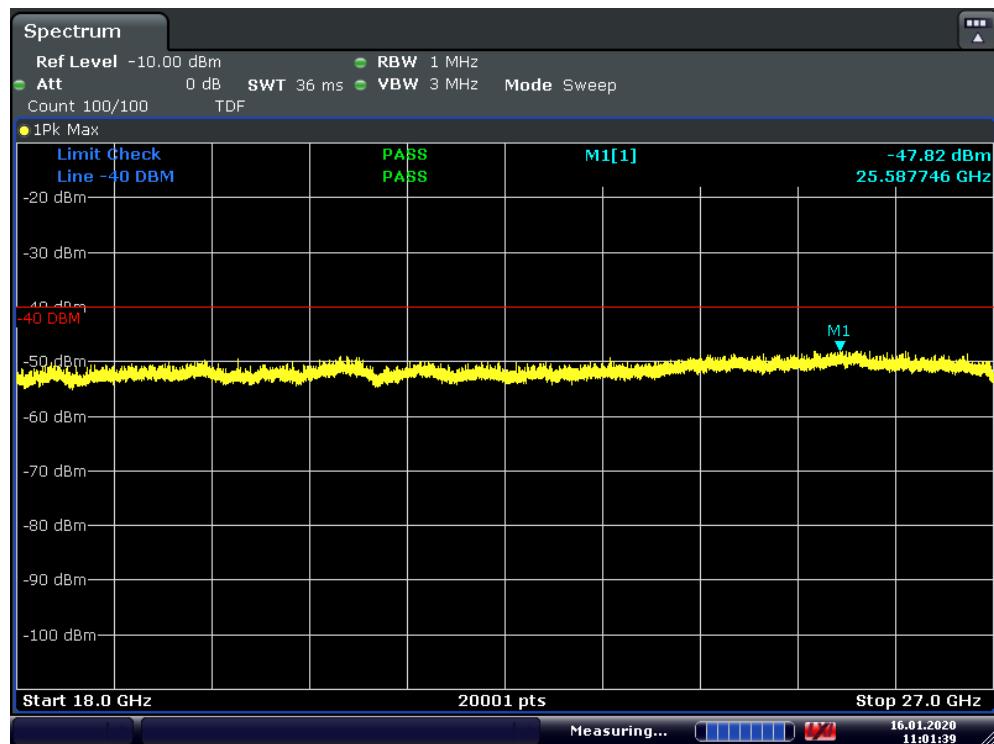
Band 30



FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 309 of 398



Plot 7-428. Radiated Spurious Plot 18GHz – 27GHz H (Band 30)



Plot 7-429. Radiated Spurious Plot 18GHz – 27GHz V (Band 30)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 310 of 398



OPERATING FREQUENCY: 2307.50 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4615.00	H	107	207	-69.39	9.49	-59.90	-19.9
6922.50	H	-	-	-71.25	11.40	-59.85	-19.8
9230.00	H	-	-	-72.56	13.29	-59.27	-19.3
11537.50	H	-	-	-70.45	13.25	-57.21	-17.2

Table 7-94. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY: 2310.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4620.00	V	-	-	-71.13	9.51	-61.61	-21.6
6930.00	V	-	-	-70.94	11.41	-59.53	-19.5
9240.00	V	301	29	-72.54	13.30	-59.24	-19.2
11550.00	V	-	-	-70.12	13.25	-56.87	-16.9

Table 7-95. Radiated Spurious Data (Band 30 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 311 of 398



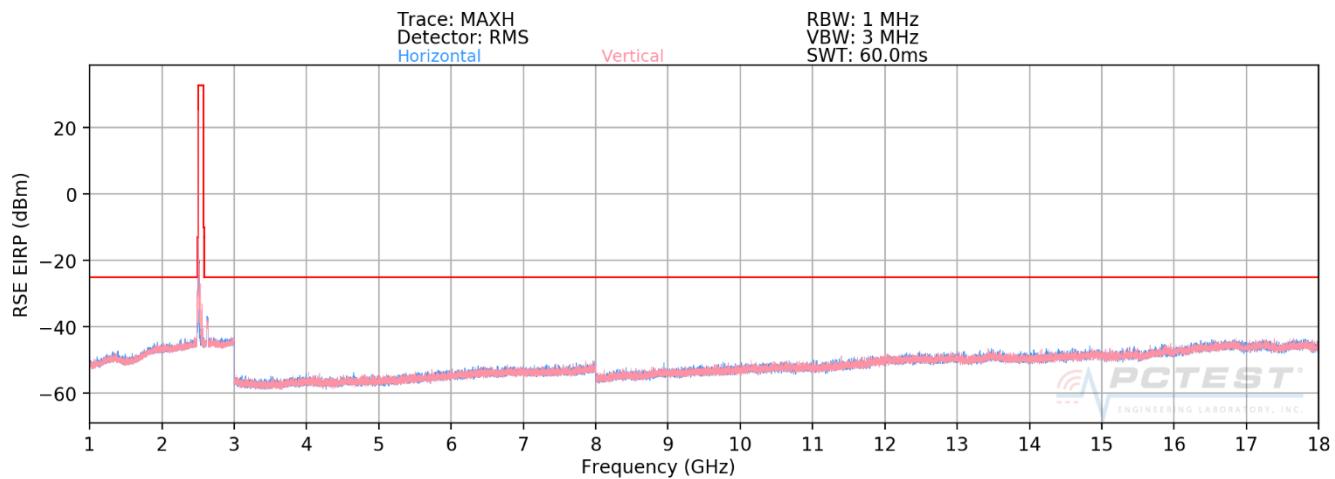
OPERATING FREQUENCY: 2312.50 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4625.00	H	106	209	-70.06	9.54	-60.52	-20.5
6937.50	H	-	-	-70.97	11.41	-59.55	-19.6
9250.00	H	-	-	-72.55	13.31	-59.24	-19.2
11562.50	H	-	-	-70.16	13.24	-56.91	-16.9

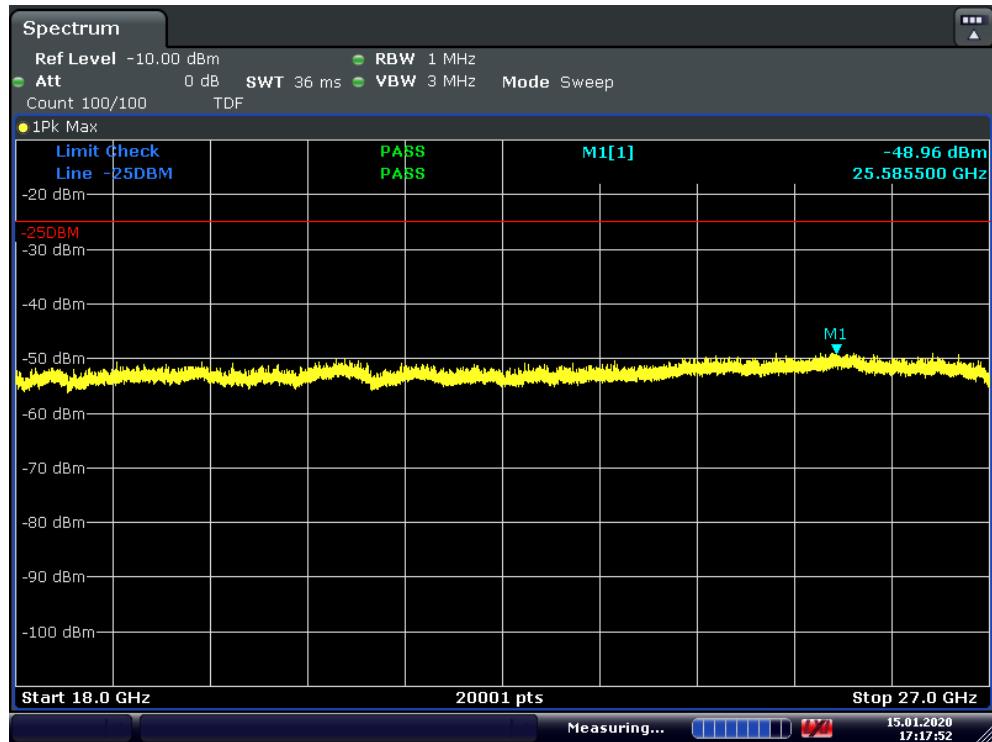
Table 7-96. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 312 of 398	

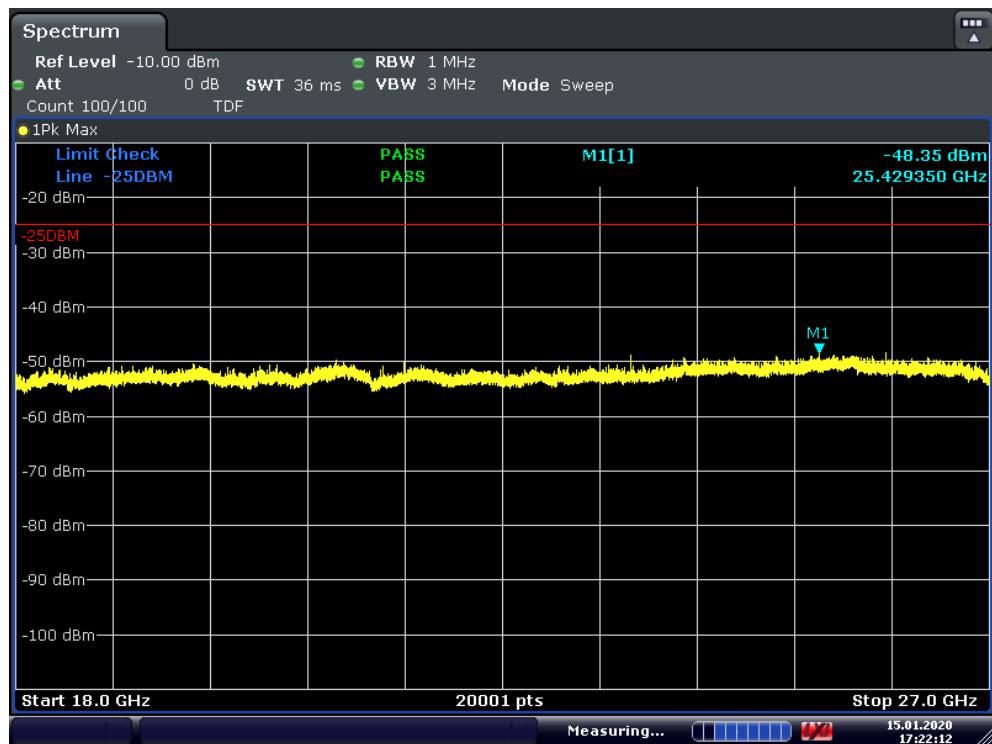
Band 7



FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 313 of 398



Plot 7-431. Radiated Spurious Plot 18GHz – 27GHz H (Band 7)



Plot 7-432. Radiated Spurious Plot 18GHz – 27GHz V (Band 7)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 2510.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5020.00	V	104	159	-70.67	10.00	-60.67	-35.7
7530.00	V	103	165	-70.46	11.99	-58.48	-33.5
10040.00	V	-	-	-71.62	13.11	-58.50	-33.5
12550.00	V	-	-	-68.48	13.13	-55.35	-30.3
15060.00	V	-	-	-57.59	14.05	-43.54	-18.5

Table 7-97. Radiated Spurious Data (Band 7 – Low Channel)

OPERATING FREQUENCY: 2535.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5070.00	V	-	-	-71.27	10.07	-61.20	-36.2
7605.00	V	111	193	-67.63	12.15	-55.48	-30.5
10140.00	V	-	-	-70.96	13.10	-57.86	-32.9
12675.00	V	-	-	-68.63	13.15	-55.48	-30.5
15210.00	V	-	-	-68.18	14.00	-54.18	-29.2

Table 7-98. Radiated Spurious Data (Band 7 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 315 of 398



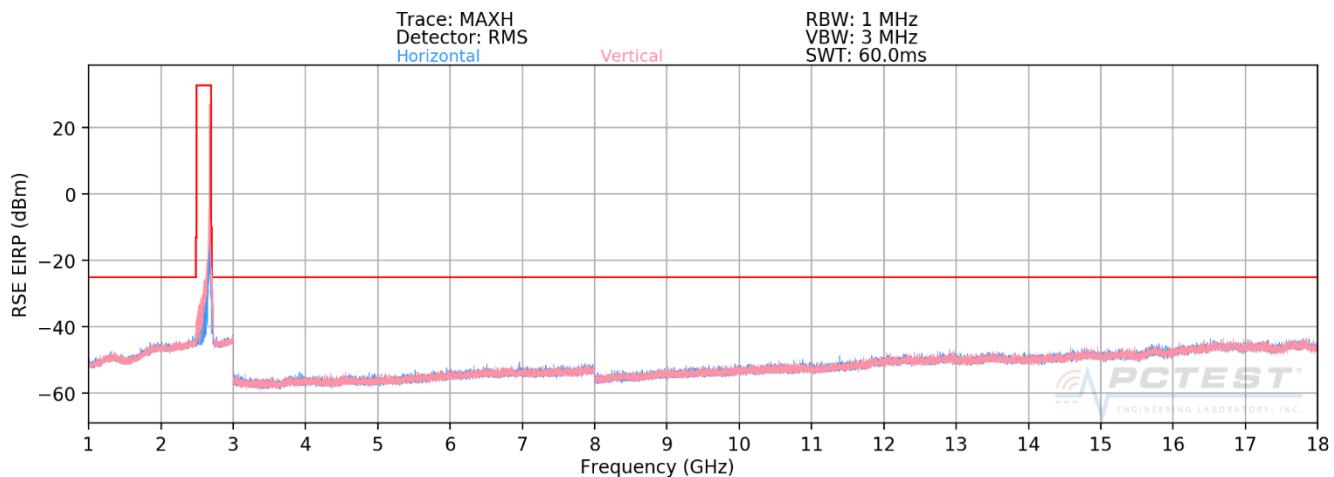
OPERATING FREQUENCY: 2560.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5120.00	V	235	325	-71.80	10.10	-61.70	-36.7
7680.00	V	325	217	-71.22	12.15	-59.07	-34.1
10240.00	V	-	-	-71.18	13.10	-58.07	-33.1
12800.00	V	-	-	-68.90	13.17	-55.73	-30.7
15360.00	V	-	-	-68.73	14.01	-54.72	-29.7

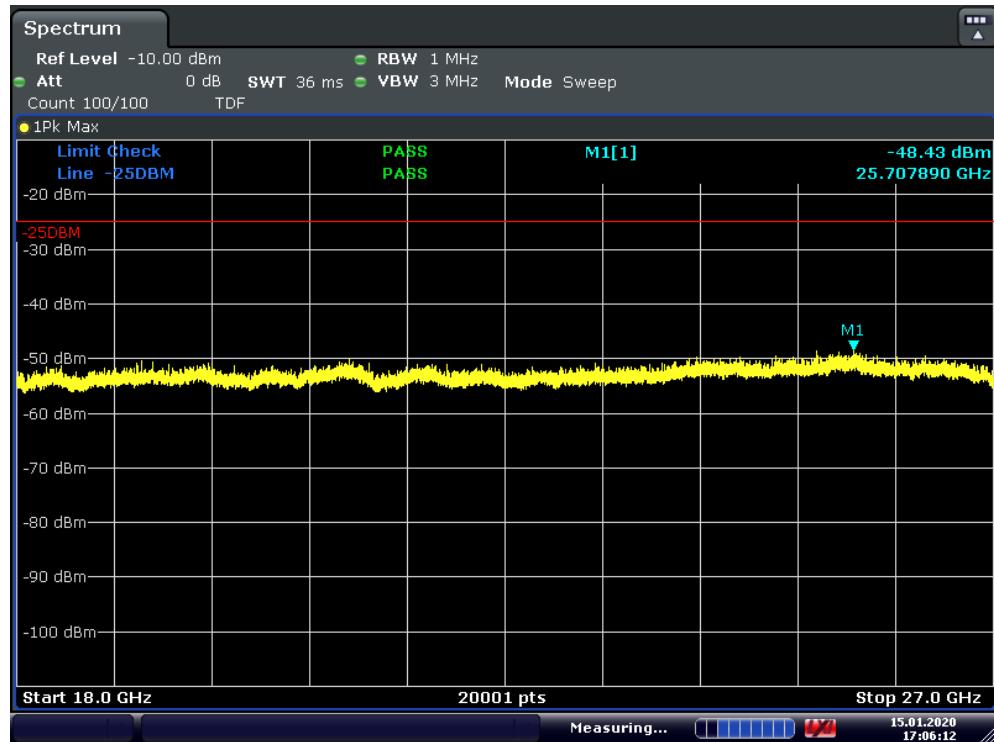
Table 7-99. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 316 of 398	

Band 41



FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 317 of 398



Plot 7-434. Radiated Spurious Plot 18GHz – 27GHz H (Band 41)



Plot 7-435. Radiated Spurious Plot 18GHz – 27GHz V (Band 41)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 318 of 398



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

Frequency [MHz]	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]	Margin [dB]
5012.00	V	125	154	-61.36	9.99	-51.37	-26.4
7518.00	V	108	192	-60.85	11.99	-48.87	-23.9
10024.00	V	-	-	-62.65	13.11	-49.54	-24.5
12530.00	V	-	-	-59.66	13.15	-46.51	-21.5
15036.00	V	-	-	-59.50	14.06	-45.44	-20.4

Table 7-100. Radiated Spurious Data (Band 41 – Low Channel)

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

Frequency [MHz]	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]	Margin [dB]
5186.00	H	107	212	-58.93	10.20	-48.72	-23.7
7779.00	H	149	191	-58.95	12.20	-46.75	-21.8
10372.00	H	-	-	-61.84	13.07	-48.77	-23.8
12965.00	H	-	-	-59.79	13.25	-46.54	-21.5
15558.00	H	-	-	-59.27	14.01	-45.26	-20.3

Table 7-101. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 319 of 398



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

Frequency [MHz]	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]	Margin [dB]
5360.00	H	-	-	-61.96	10.37	-51.59	-26.6
8040.00	H	146	86	-63.16	12.53	-50.62	-25.6
10720.00	H	-	-	-61.55	13.07	-48.48	-23.5
13400.00	H	-	-	-60.57	13.78	-46.79	-21.8
16080.00	H	-	-	-58.51	13.63	-44.88	-19.9

Table 7-102. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 320 of 398	

7.9.3 ANT 1 (Port-B) Radiated Spurious Emissions Measurements

Band 12/17

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	-	-	-72.33	4.35	-67.98	-55.0
2112.00	H	-	-	-69.93	5.05	-64.87	-51.9
2816.00	H	-	-	-71.39	6.90	-64.50	-51.5

Table 7-103. Radiated Spurious Data (Band 12/17 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	-	-	-72.51	4.42	-68.09	-55.1
2122.50	H	-	-	-70.74	5.22	-65.52	-52.5
2830.00	H	-	-	-71.64	7.01	-64.63	-51.6

Table 7-104. Radiated Spurious Data (Band 12/17 – Mid Channel)

FCC ID: BCGA2230	 PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 321 of 398



OPERATING FREQUENCY: 711.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	-	-	-71.96	4.50	-67.46	-54.5
2133.00	H	-	-	-70.29	5.34	-64.95	-52.0
2844.00	H	-	-	-71.32	7.06	-64.26	-51.3

Table 7-105. Radiated Spurious Data (Band 12/17 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 322 of 398	



Band 13

OPERATING FREQUENCY: 779.50 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	H	347	213	-63.39	6.21	-57.19	-44.2
3118.00	H	-	-	-70.73	7.46	-63.28	-50.3
3897.50	H	-	-	-71.15	8.89	-62.26	-49.3
4677.00	H	-	-	-71.21	9.79	-61.42	-48.4

Table 7-106. Radiated Spurious Data (Band 13 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	H	306	87	-63.18	6.22	-56.95	-44.0
3128.00	H	-	-	-70.88	7.50	-63.38	-50.4
3910.00	H	-	-	-70.97	8.92	-62.05	-49.0
4692.00	H	-	-	-71.27	9.87	-61.40	-48.4

Table 7-107. Radiated Spurious Data (Band 13 – Mid Channel)

FCC ID: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			



OPERATING FREQUENCY: 784.50 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	H	327	286	-68.05	6.22	-61.84	-48.8
3138.00	H	-	-	-71.01	7.54	-63.47	-50.5
3922.50	H	-	-	-71.35	8.95	-62.40	-49.4
4707.00	H	-	-	-71.66	9.92	-61.74	-48.7

Table 7-108. Radiated Spurious Data (Band 13 – High Channel)

MODULATION SIGNAL: QPSK
BANDWIDTH: 5.00 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	H	-	-	-74.28	5.80	-68.48	-28.5
1564.00	H	-	-	-74.34	5.82	-68.53	-28.5
1569.00	H	-	-	-74.23	5.82	-68.41	-28.4

Table 7-109. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: BCGA2230	PCTEST [®] MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 324 of 398	



Band 26/5

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	-	-	-73.73	5.50	-68.23	-55.2
2487.00	H	-	-	-69.72	5.92	-63.80	-50.8
3316.00	H	-	-	-71.08	7.87	-63.21	-50.2

Table 7-110. 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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	-	-	-73.62	5.60	-68.02	-55.0
2509.50	H	147	207	-67.37	5.90	-61.47	-48.5
3346.00	H	-	-	-71.08	7.95	-63.13	-50.1
4182.50	H	-	-	-71.65	9.13	-62.52	-49.5
5019.00	H	-	-	-71.57	10.00	-61.57	-48.6

Table 7-111. Radiated Spurious Data (Band 26/5 – Mid Channel)

FCC ID: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			



OPERATING FREQUENCY: 844.00 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	-	-	-73.50	5.65	-67.85	-54.9
2532.00	H	-	-	-70.28	5.93	-64.36	-51.4
3376.00	H	-	-	-71.26	8.04	-63.22	-50.2

Table 7-112. Radiated Spurious Data (Band 26/5 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 326 of 398	

7.9.1 ANT 2b (Port-B) Radiated Spurious Emissions Measurements

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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-70.21	8.12	-62.09	-49.1
5160.00	H	-	-	-71.48	10.14	-61.34	-48.3
6880.00	H	-	-	-70.99	11.38	-59.61	-46.6

Table 7-113. Radiated Spurious Data (Band 66/4 – Low Channel)

OPERATING FREQUENCY: 1745.00 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-70.66	8.09	-62.57	-49.6
5235.00	H	-	-	-71.70	10.26	-61.44	-48.4
6980.00	H	-	-	-70.86	11.47	-59.40	-46.4

Table 7-114. Radiated Spurious Data (Band 66/4 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 327 of 398



OPERATING FREQUENCY: 1770.00 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-70.18	7.99	-62.19	-49.2
5310.00	H	-	-	-71.38	10.28	-61.10	-48.1
7080.00	H	-	-	-71.17	11.58	-59.60	-46.6

Table 7-115. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 328 of 398	

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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-70.87	8.43	-62.44	-49.4
5580.00	H	-	-	-71.88	10.72	-61.16	-48.2
7440.00	H	-	-	-71.46	11.90	-59.56	-46.6

Table 7-116. Radiated Spurious Data (Band 25/2 – Low Channel)

OPERATING FREQUENCY: 1882.50 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-70.64	8.48	-62.16	-49.2
5647.50	H	-	-	-71.53	10.69	-60.84	-47.8
7530.00	H	-	-	-71.66	11.99	-59.68	-46.7

Table 7-117. Radiated Spurious Data (Band 25/2 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 329 of 398	



OPERATING FREQUENCY: 1905.00 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-70.64	8.59	-62.04	-49.0
5715.00	H	-	-	-71.70	10.66	-61.04	-48.0
7620.00	H	-	-	-71.76	12.16	-59.60	-46.6

Table 7-118. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 330 of 398	



Band 30

OPERATING FREQUENCY: 2307.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4615.00	V	-	-	-70.65	9.49	-61.16	-21.2
6922.50	V	-	-	-71.14	11.40	-59.74	-19.7
9230.00	V	-	-	-72.34	13.29	-59.05	-19.1

Table 7-119. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY: 2310.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4620.00	V	-	-	-71.01	9.51	-61.49	-21.5
6930.00	V	119	192	-70.31	11.41	-58.90	-18.9
9240.00	V	-	-	-72.51	13.30	-59.21	-19.2
11550.00	V	-	-	-70.20	13.25	-56.95	-17.0
13860.00	V	-	-	-70.26	14.42	-55.84	-15.8

Table 7-120. Radiated Spurious Data (Band 30 – Mid Channel)

FCC ID: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			



OPERATING FREQUENCY: 2312.50 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4625.00	V	-	-	-71.43	9.54	-61.89	-21.9
6937.50	H	105	90	-69.90	11.41	-58.48	-18.5
9250.00	V	-	-	-72.44	13.31	-59.13	-19.1
11562.50	V	-	-	-70.07	13.24	-56.82	-16.8
13875.00	V	-	-	-70.45	14.42	-56.02	-16.0

Table 7-121. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 332 of 398	

Band 7

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

Frequency [MHz]	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]	Margin [dB]
5020.00	V	-	-	-71.42	10.00	-61.42	-36.4
7530.00	V	271	217	-68.39	11.99	-56.41	-31.4
10040.00	V	-	-	-71.38	13.11	-58.26	-33.3
12550.00	V	-	-	-68.25	13.13	-55.12	-30.1
15060.00	V	-	-	-67.50	14.05	-53.45	-28.5

Table 7-122. Radiated Spurious Data (Band 7 – Low Channel)

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

Frequency [MHz]	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]	Margin [dB]
5070.00	V	-	-	-71.41	10.07	-61.34	-36.3
7605.00	V	105	194	-67.12	12.15	-54.97	-30.0
10140.00	V	-	-	-70.83	13.10	-57.73	-32.7
12675.00	V	-	-	-68.18	13.15	-55.03	-30.0
15210.00	V	-	-	-67.59	14.00	-53.59	-28.6

Table 7-123. Radiated Spurious Data (Band 7 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 333 of 398	



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

Frequency [MHz]	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]	Margin [dB]
5120.00	V	-	-	-71.50	10.10	-61.40	-36.4
7680.00	V	282	206	-69.08	12.15	-56.93	-31.9
10240.00	V	-	-	-70.91	13.10	-57.80	-32.8
12800.00	V	-	-	-68.40	13.17	-55.23	-30.2

Table 7-124. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 334 of 398	



Band 41

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

Frequency [MHz]	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]	Margin [dB]
5012.00	V	-	-	-63.26	9.99	-53.27	-28.3
7518.00	V	119	136	-60.84	11.99	-48.86	-23.9
10024.00	V	-	-	-62.52	13.11	-49.41	-24.4
12530.00	V	-	-	-60.07	13.15	-46.92	-21.9
15036.00	V	-	-	-59.06	14.06	-45.00	-20.0

Table 7-125. Radiated Spurious Data (Band 41 – Low Channel)

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

Frequency [MHz]	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]	Margin [dB]
5186.00	V	-	-	-61.87	10.20	-51.66	-26.7
7779.00	V	392	129	-55.91	12.20	-43.71	-18.7
10372.00	V	-	-	-61.61	13.07	-48.54	-23.5
12965.00	V	-	-	-59.40	13.25	-46.15	-21.1
15558.00	V	-	-	-58.52	14.01	-44.51	-19.5

Table 7-126. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 335 of 398



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

Frequency [MHz]	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]	Margin [dB]
5360.00	V	-	-	-61.70	10.37	-51.33	-26.3
8040.00	V	256	23	-53.39	12.53	-40.85	-15.9
10720.00	V	-	-	-61.61	13.07	-48.54	-23.5
13400.00	V	-	-	-60.51	13.78	-46.73	-21.7
16080.00	V	-	-	-58.51	13.63	-44.88	-19.9

Table 7-127. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 336 of 398	

7.9.2 ANT 4a (Port-C) Radiated Spurious Emissions Measurements 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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-69.99	8.12	-61.87	-48.9
5160.00	H	-	-	-71.49	10.14	-61.35	-48.4
6880.00	H	-	-	-70.48	11.38	-59.10	-46.1

Table 7-128. Radiated Spurious Data (Band 66/4 – Low Channel)

OPERATING FREQUENCY: 1745.00 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-70.51	8.09	-62.42	-49.4
5235.00	H	-	-	-71.71	10.26	-61.45	-48.4
6980.00	H	-	-	-70.85	11.47	-59.39	-46.4

Table 7-129. Radiated Spurious Data (Band 66/4 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 337 of 398	



OPERATING FREQUENCY: 1770.00 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-70.39	7.99	-62.40	-49.4
5310.00	H	-	-	-71.44	10.28	-61.16	-48.2
7080.00	H	-	-	-71.17	11.58	-59.60	-46.6

Table 7-130. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 338 of 398	



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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-70.59	8.43	-62.16	-49.2
5580.00	H	-	-	-71.57	10.72	-60.85	-47.9
7440.00	H	-	-	-71.01	11.90	-59.11	-46.1

Table 7-131. Radiated Spurious Data (Band 25/2 – Low Channel)

OPERATING FREQUENCY:	1882.50	MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-70.23	8.48	-61.75	-48.8
5647.50	H	-	-	-71.15	10.69	-60.46	-47.5
7530.00	H	-	-	-71.11	11.99	-59.13	-46.1

Table 7-132. Radiated Spurious Data (Band 25/2 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 339 of 398



OPERATING FREQUENCY: 1905.00 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-70.35	8.59	-61.75	-48.8
5715.00	H	-	-	-71.33	10.66	-60.67	-47.7
7620.00	H	-	-	-70.89	12.16	-58.73	-45.7

Table 7-133. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 340 of 398	



Band 30

OPERATING FREQUENCY: 2307.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4615.00	V	-	-	-70.91	9.49	-61.42	-21.4
6922.50	V	-	-	-71.09	11.40	-59.69	-19.7
9230.00	V	-	-	-72.82	13.29	-59.53	-19.5

Table 7-134. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY: 2310.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4620.00	V	-	-	-71.08	9.51	-61.56	-21.6
6930.00	V	-	-	-71.33	11.41	-59.92	-19.9
9240.00	V	-	-	-72.53	13.30	-59.23	-19.2

Table 7-135. Radiated Spurious Data (Band 30 – Mid Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 341 of 398	



OPERATING FREQUENCY: 2312.50 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4625.00	V	-	-	-71.31	9.54	-61.77	-21.8
6937.50	V	-	-	-71.20	11.41	-59.78	-19.8
9250.00	V	-	-	-72.36	13.31	-59.05	-19.1

Table 7-136. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 342 of 398	



Band 7

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

Frequency [MHz]	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]	Margin [dB]
5020.00	V	-	-	-71.00	10.00	-61.00	-36.0
7530.00	V	-	-	-71.17	11.99	-59.19	-34.2
10040.00	V	-	-	-71.33	13.11	-58.21	-33.2

Table 7-137. Radiated Spurious Data (Band 7 – Low Channel)

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

Frequency [MHz]	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]	Margin [dB]
5070.00	V	104	245	-70.63	10.07	-60.56	-35.6
7605.00	V	100	300	-52.92	12.15	-40.77	-15.8
10140.00	V	-	-	-70.86	13.10	-57.76	-32.8
12675.00	V	-	-	-68.22	13.15	-55.07	-30.1
15210.00	V	-	-	-67.54	14.00	-53.54	-28.5

Table 7-138. Radiated Spurious Data (Band 7 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 343 of 398



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

Frequency [MHz]	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]	Margin [dB]
5120.00	V	-	-	-71.34	10.10	-61.24	-36.2
7680.00	V	-	-	-71.39	12.15	-59.24	-34.2
10240.00	V	-	-	-70.83	13.10	-57.72	-32.7

Table 7-139. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 344 of 398	



Band 41

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

Frequency [MHz]	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]	Margin [dB]
5012.00	V	-	-	-62.01	9.99	-52.02	-27.0
7518.00	V	-	-	-62.67	11.99	-50.69	-25.7
10024.00	V	-	-	-62.48	13.11	-49.37	-24.4

Table 7-140. Radiated Spurious Data (Band 41 – Low Channel)

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

Frequency [MHz]	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]	Margin [dB]
5186.00	V	149	246	-61.60	10.20	-51.39	-26.4
7779.00	V	124	192	-58.74	12.20	-46.54	-21.5
10372.00	V	-	-	-62.12	13.07	-49.05	-24.1
12965.00	V	-	-	-60.30	13.25	-47.05	-22.0
15558.00	V	-	-	-57.98	14.01	-43.97	-19.0

Table 7-141. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 345 of 398



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

Frequency [MHz]	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]	Margin [dB]
5360.00	H	169	249	-61.46	10.37	-51.09	-26.1
8040.00	V	105	200	-59.88	12.53	-47.34	-22.3
10720.00	V	-	-	-62.15	13.07	-49.08	-24.1
13400.00	V	-	-	-60.40	13.78	-46.62	-21.6
16080.00	V	-	-	-57.75	13.63	-44.12	-19.1

Table 7-142. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 346 of 398	



7.9.3 ANT 2a (Port-D) Radiated Spurious Emissions Measurements 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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-70.39	8.12	-62.27	-49.3
5160.00	H	-	-	-71.67	10.14	-61.53	-48.5
6880.00	H	-	-	-71.00	11.38	-59.62	-46.6

Table 7-143. Radiated Spurious Data (Band 66/4 – Low Channel)

OPERATING FREQUENCY: 1745.00 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-70.55	8.09	-62.46	-49.5
5235.00	H	-	-	-72.08	10.26	-61.82	-48.8
6980.00	H	-	-	-71.23	11.47	-59.77	-46.8

Table 7-144. Radiated Spurious Data (Band 66/4 – Mid Channel)

FCC ID: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			



OPERATING FREQUENCY: 1770.00 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-70.51	7.99	-62.52	-49.5
5310.00	H	-	-	-71.93	10.28	-61.65	-48.7
7080.00	H	-	-	-71.43	11.58	-59.86	-46.9

Table 7-145. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 348 of 398	



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]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-70.95	8.43	-62.52	-49.5
5580.00	H	-	-	-71.95	10.72	-61.23	-48.2
7440.00	H	-	-	-71.38	11.90	-59.48	-46.5

Table 7-146. Radiated Spurious Data (Band 25/2 – Low Channel)

OPERATING FREQUENCY: 1882.50 MHz
 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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-70.14	8.48	-61.66	-48.7
5647.50	H	-	-	-71.18	10.69	-60.49	-47.5
7530.00	H	-	-	-70.85	11.99	-58.87	-45.9

Table 7-147. Radiated Spurious Data (Band 25/2 – Mid Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 349 of 398	



OPERATING FREQUENCY: 1905.00 MHz
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]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-70.38	8.59	-61.78	-48.8
5715.00	H	-	-	-71.26	10.66	-60.60	-47.6
7620.00	H	-	-	-71.49	12.16	-59.34	-46.3

Table 7-148. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 350 of 398	



Band 30

OPERATING FREQUENCY: 2307.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4615.00	V	264	361	-69.20	9.49	-59.71	-19.7
6922.50	V	-	-	-71.38	11.40	-59.98	-20.0
9230.00	V	-	-	-72.49	13.29	-59.20	-19.2
11537.50	V	-	-	-69.95	13.25	-56.71	-16.7

Table 7-149. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY: 2310.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4620.00	V	-	-	-70.91	9.51	-61.39	-21.4
6930.00	V	-	-	-71.38	11.41	-59.97	-20.0
9240.00	V	-	-	-72.50	13.30	-59.20	-19.2

Table 7-150. Radiated Spurious Data (Band 30 – Mid Channel)

FCC ID: BCGA2230	PCTEST® MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 351 of 398	



OPERATING FREQUENCY: 2312.50 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -40 dBm

Frequency [MHz]	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]	Margin [dB]
4625.00	V	-	-	-71.23	9.54	-61.69	-21.7
6937.50	V	-	-	-70.96	11.41	-59.54	-19.5
9250.00	V	-	-	-72.45	13.31	-59.14	-19.1

Table 7-151. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 352 of 398	

Band 7

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

Frequency [MHz]	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]	Margin [dB]
5020.00	V	-	-	-71.28	10.00	-61.28	-36.3
7530.00	V	-	-	-71.07	11.99	-59.09	-34.1
10040.00	V	-	-	-71.05	13.11	-57.93	-32.9

Table 7-152. Radiated Spurious Data (Band 7 – Low Channel)

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

Frequency [MHz]	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]	Margin [dB]
5070.00	V	-	-	-71.54	10.07	-61.47	-36.5
7605.00	V	-	-	-71.60	12.15	-59.45	-34.5
10140.00	V	-	-	-70.60	13.10	-57.50	-32.5

Table 7-153. Radiated Spurious Data (Band 7 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 353 of 398	



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

Frequency [MHz]	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]	Margin [dB]
5120.00	V	-	-	-71.54	10.10	-61.44	-36.4
7680.00	V	-	-	-71.35	12.15	-59.20	-34.2
10240.00	V	-	-	-70.84	13.10	-57.73	-32.7

Table 7-154. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 354 of 398	

Band 41

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

Frequency [MHz]	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]	Margin [dB]
5012.00	V	-	-	-62.11	9.99	-52.12	-27.1
7518.00	V	-	-	-62.10	11.99	-50.12	-25.1
10024.00	V	-	-	-62.62	13.11	-49.51	-24.5

Table 7-155. Radiated Spurious Data (Band 41 – Low Channel)

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

Frequency [MHz]	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]	Margin [dB]
5186.00	V	-	-	-62.12	10.20	-51.91	-26.9
7779.00	V	244	5	-57.18	12.20	-44.98	-20.0
10372.00	V	-	-	-61.94	13.07	-48.87	-23.9
12965.00	V	-	-	-60.44	13.25	-47.19	-22.2
15558.00	V	-	-	-58.63	14.01	-44.62	-19.6

Table 7-156. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			



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

Frequency [MHz]	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]	Margin [dB]
5360.00	V	120	301	-71.55	10.37	-61.18	-36.2
8040.00	V	-	-	-73.18	12.53	-60.64	-35.6
10720.00	V	-	-	-70.54	13.07	-57.47	-32.5
13400.00	V	-	-	-69.39	13.78	-55.61	-30.6

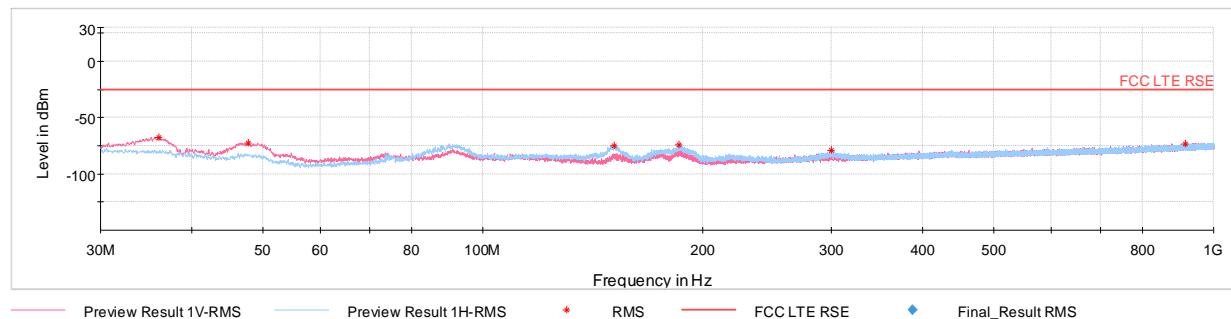
Table 7-157. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 356 of 398	

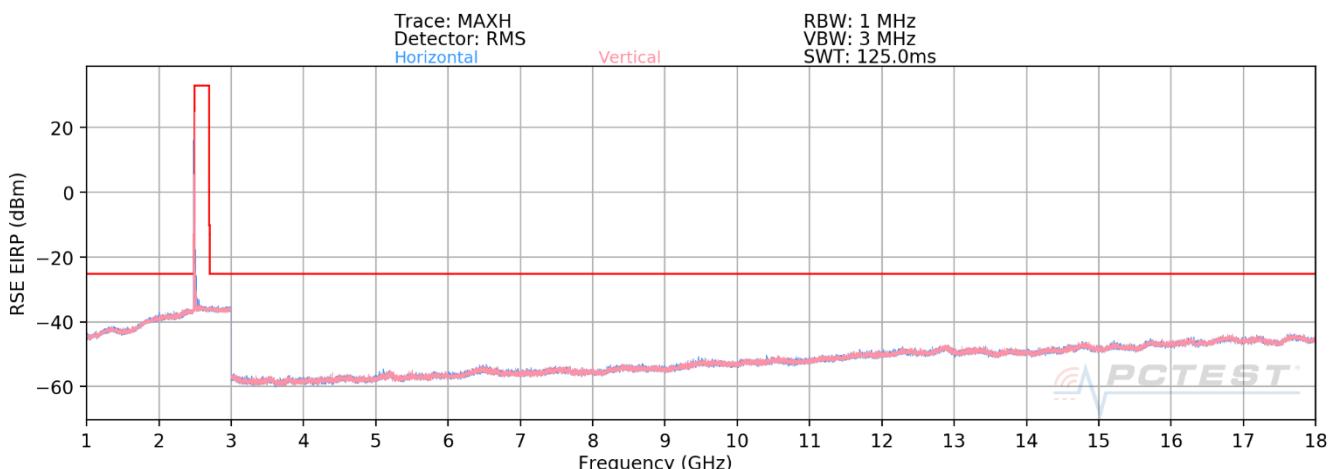
Simultaneous Tx Radiated Spurious Emissions Measurements

Description	Bluetooth	LTE
Antenna	4a	4a
Channel	6	39750
Operating Frequency (MHz)	2480	2506
Mode/Modulation	GFSK ePA	QPSK/1RB/20MHz

Table 7-158. Worst Case Configuration



Plot 7-436. Radiated Spurious Plot Below 1GHz

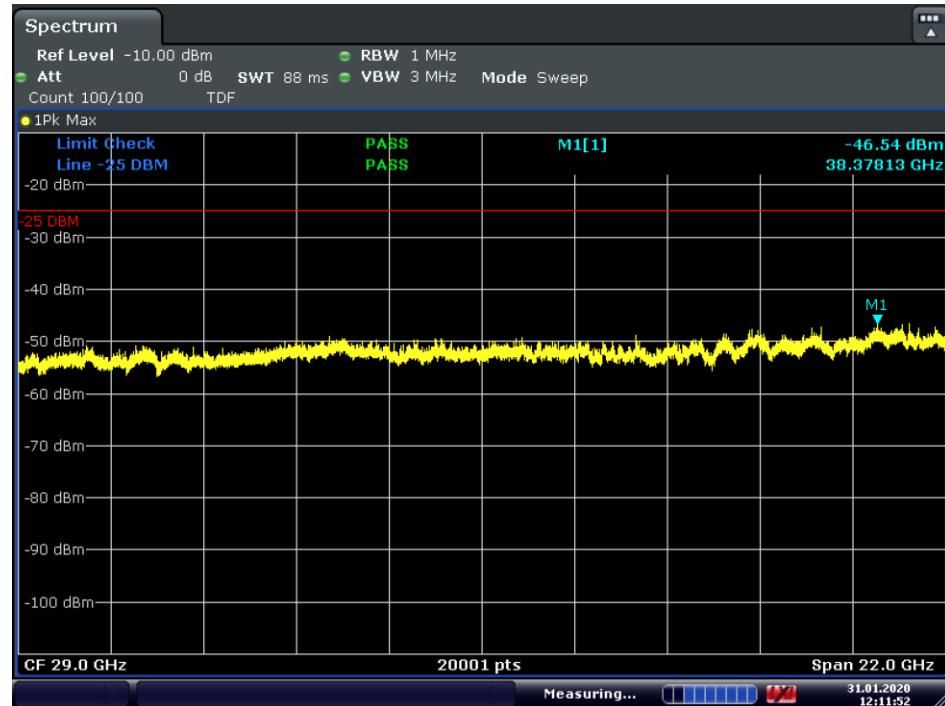


Plot 7-437. Radiated Spurious Plot Above 1GHz

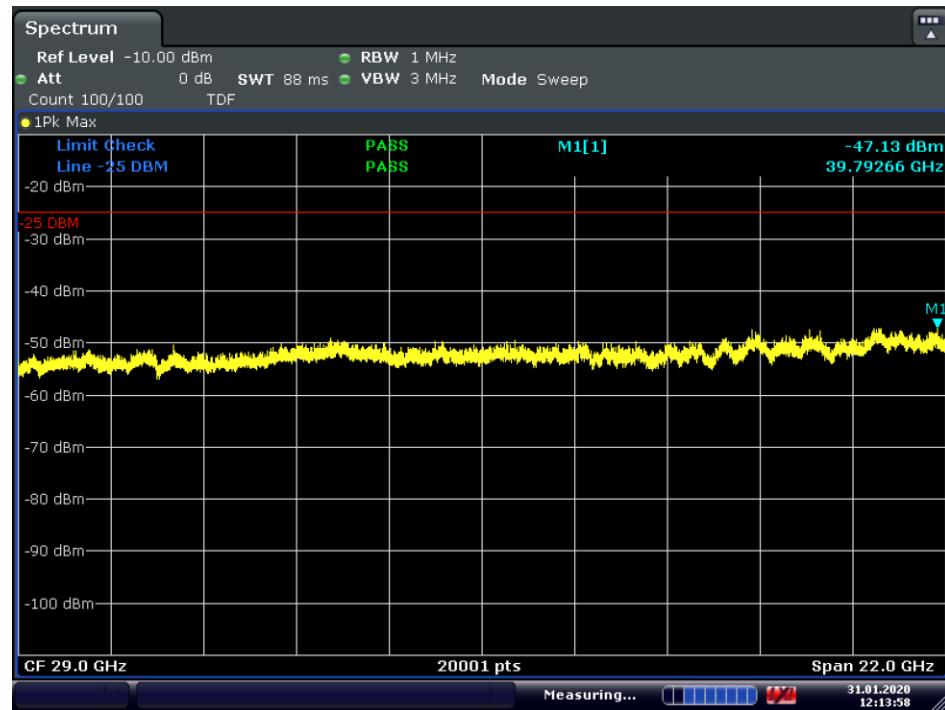
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	V	-	-	-69.39	9.99	-59.40	-25.0	-34.4
7518.00	V	-	-	-68.80	11.99	-56.82	-25.0	-31.8
10024.00	V	-	-	-68.70	13.11	-55.59	-25.0	-30.6

Table 7-159. Radiated Spurious Data Above 1GHz

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Plot 7-438. Radiated Spurious Plot Above 18GHz (Ant. Pol H)



Plot 7-439. Radiated Spurious Data Above 18GHz (Ant. Pol V)

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Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 358 of 398



7.10 Uplink Carrier Aggregation Radiated Measurements

§2.1053, §27.53(m)

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-D-2010 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak 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 v02r02 – Section 5.8

ANSI/TIA-603-D-2010 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW \geq 3 x RBW
3. No. of sweep points \geq 2 x span / RBW
4. Detector = RMS
5. Trace mode = trace average for continuous emissions, max hold for pulse emissions
6. The trace was allowed to stabilize

FCC ID: BCGA2230	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.

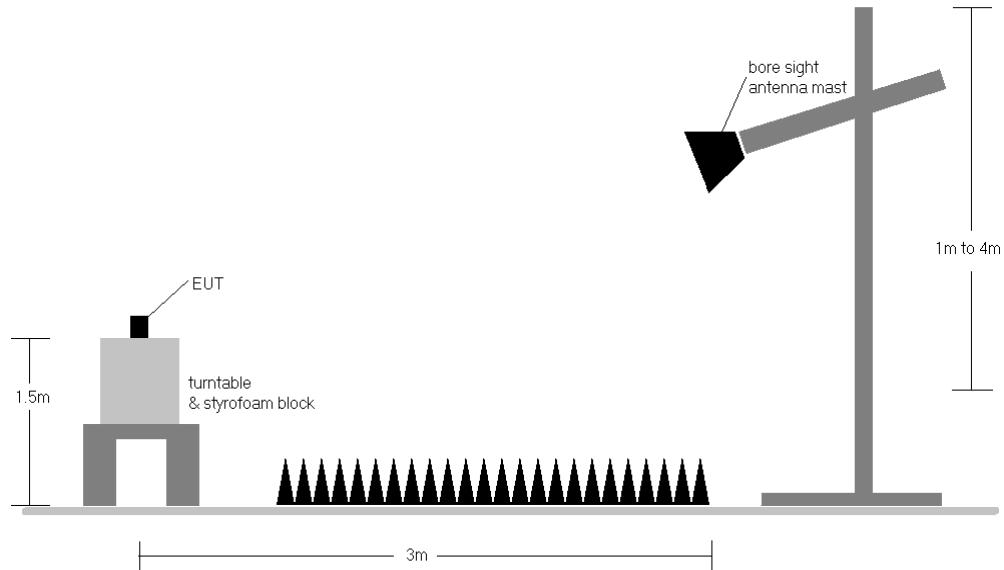


Figure 7-10. Test Instrument & Measurement Setup

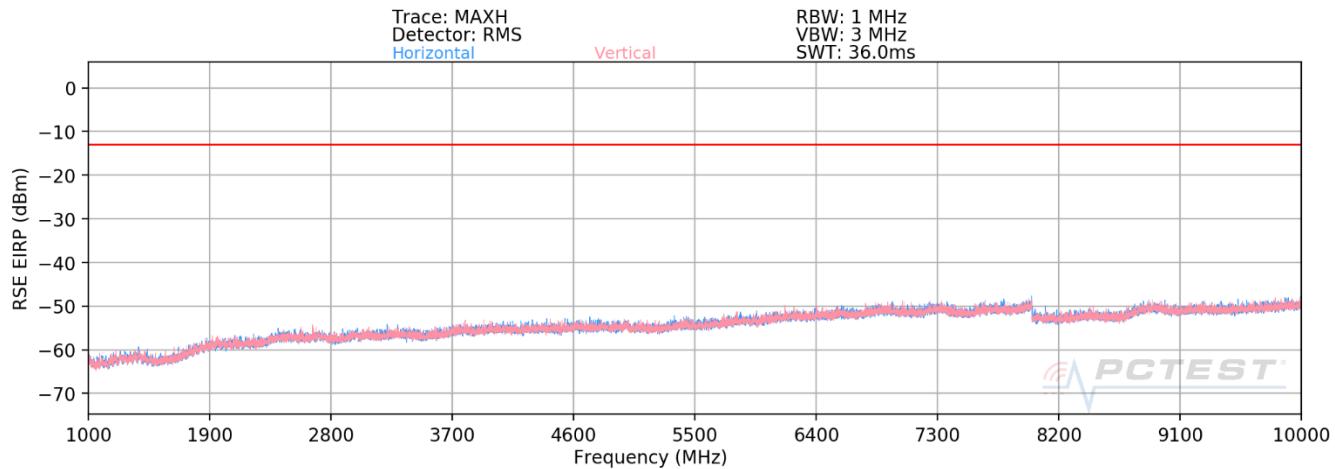
Test Notes

- 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) Radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) 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.
- 6) No significant emissions were found as a result of two uplink carriers operating contiguously.
- 7) All ports were tested and only the worst case data were reported.
- 8) Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

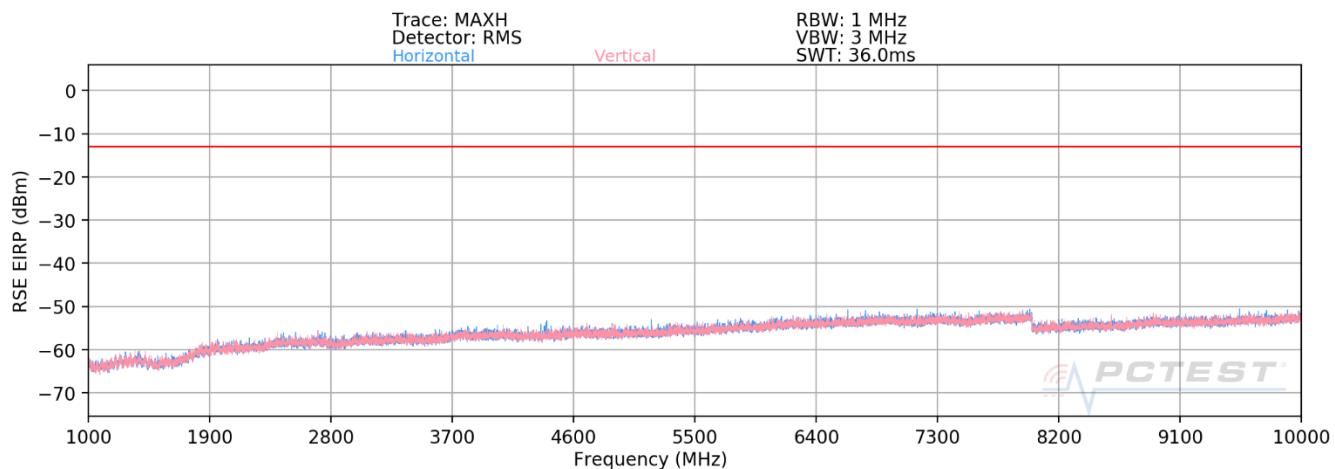
FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 360 of 398

7.10.1 ANT 3 (Port-A) Radiated Spurious Emissions Measurements

Band 5



Plot 7-440. Radiated Spurious Plot (ULCA B5 PCC: RB 1 Offset 49, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-441. Radiated Spurious Plot (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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OPERATING FREQUENCY (PCC): 829.00 MHz
OPERATING FREQUENCY (SCC): 838.90 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
4780.00	V	-	-	-72.67	5.50	-67.17	-42.2
7170.00	V	220	136	-64.88	5.92	-58.96	-34.0
9560.00	V	-	-	-69.39	7.87	-61.52	-36.5
11950.00	V	-	-	-70.26	9.02	-61.24	-36.2
14340.00	V	-	-	-71.12	10.01	-61.10	-36.1

Table 7-160. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 49, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 844.00 MHz
OPERATING FREQUENCY (SCC): 834.10 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

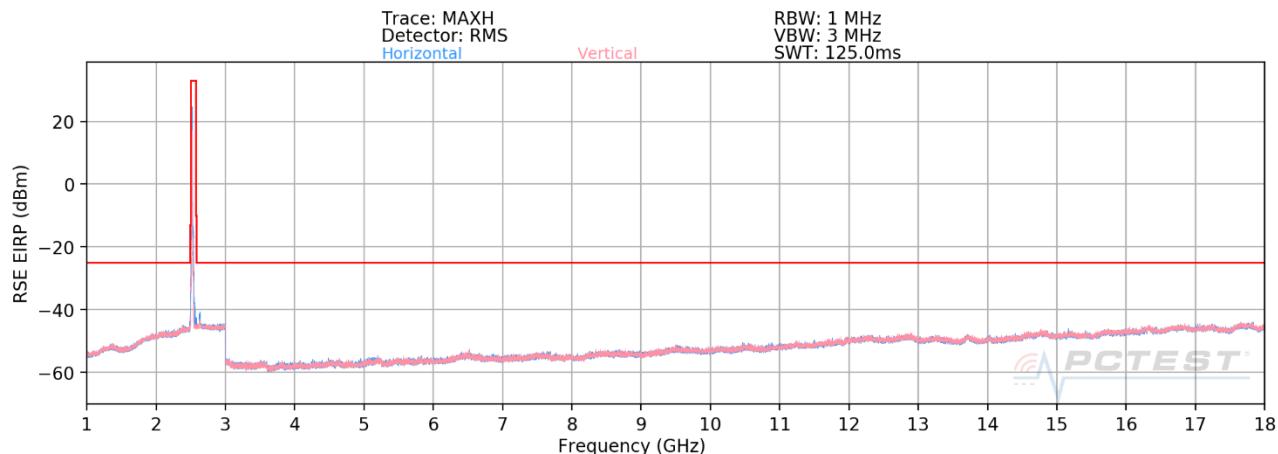
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	V	-	-	-72.42	5.65	-66.77	-41.8
2532.00	V	148	155	-66.01	5.95	-60.06	-35.1
3376.00	V	-	-	-69.87	8.04	-61.83	-36.8
4220.00	V	-	-	-70.83	9.19	-61.64	-36.6
5064.00	V	-	-	-70.41	10.06	-60.35	-35.3

Table 7-161. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

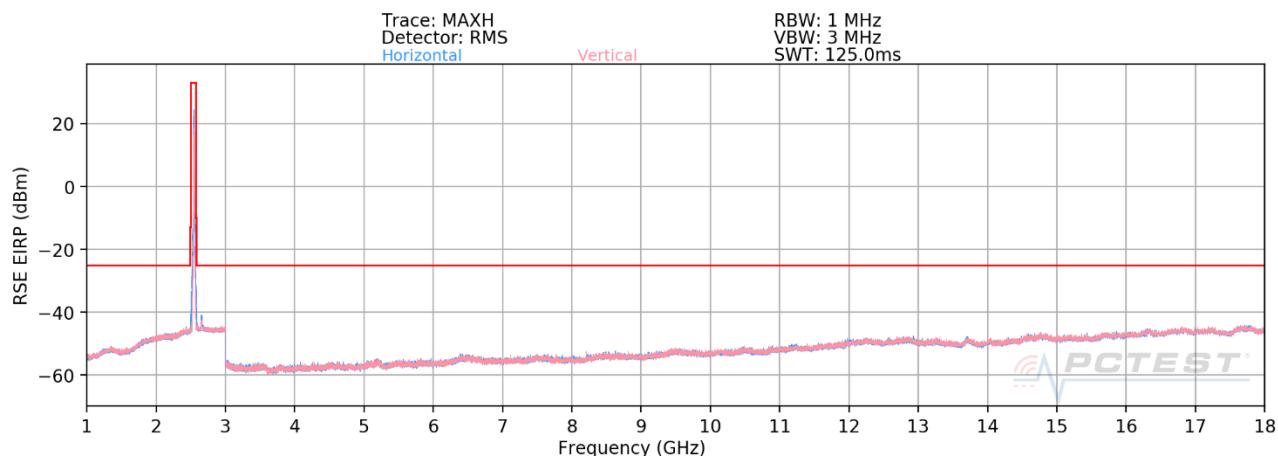
FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 362 of 398

7.10.2 ANT 4b (Port-A) Radiated Spurious Emissions Measurements

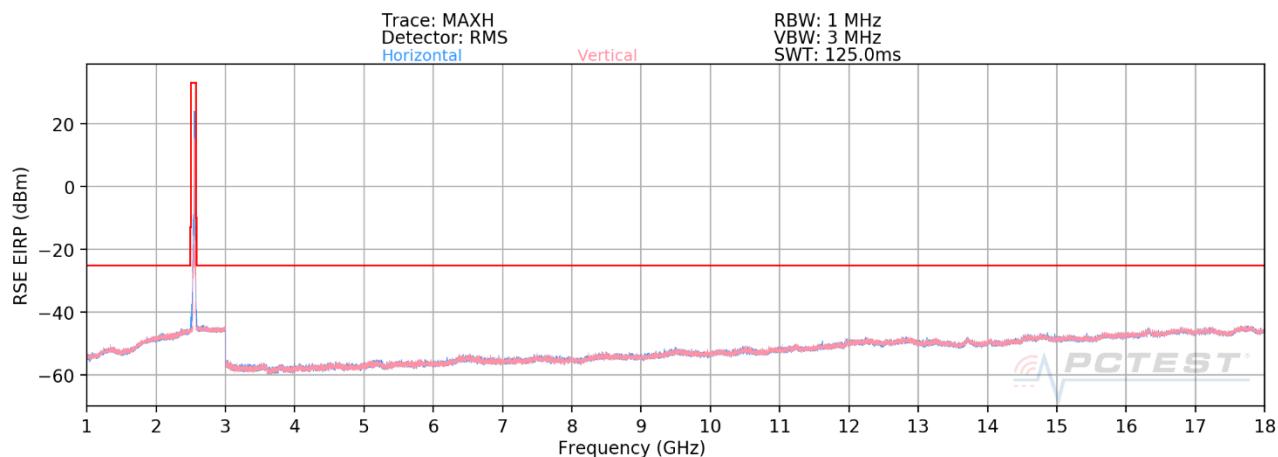
Band 7



Plot 7-442. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-443. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)



Plot 7-444. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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OPERATING FREQUENCY (PCC): 2510.00 MHz
 OPERATING FREQUENCY (SCC): 2529.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5020.00	V	-	-	-69.05	10.13	-58.92	-33.9
7530.00	V	-	-	-68.52	12.02	-56.51	-31.5
10040.00	V	-	-	-68.03	13.11	-54.91	-29.9

Table 7-162. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2535.00 MHz
 OPERATING FREQUENCY (SCC): 2554.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5070.00	V	-	-	-69.55	10.16	-59.39	-34.4
7605.00	V	-	-	-69.40	11.98	-57.42	-32.4
10140.00	V	-	-	-69.11	13.03	-56.08	-31.1

Table 7-163. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

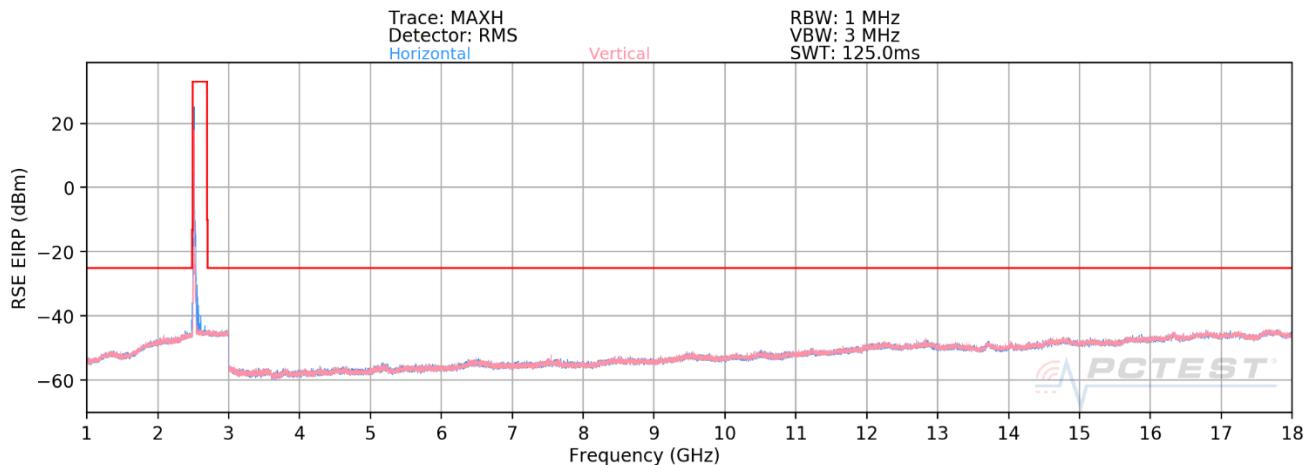
OPERATING FREQUENCY (PCC): 2560.00 MHz
 OPERATING FREQUENCY (SCC): 2540.20 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5120.00	V	-	-	-71.03	10.22	-60.81	-35.8
7680.00	V	-	-	-71.87	12.06	-59.81	-34.8
10240.00	V	-	-	-70.58	13.05	-57.52	-32.5

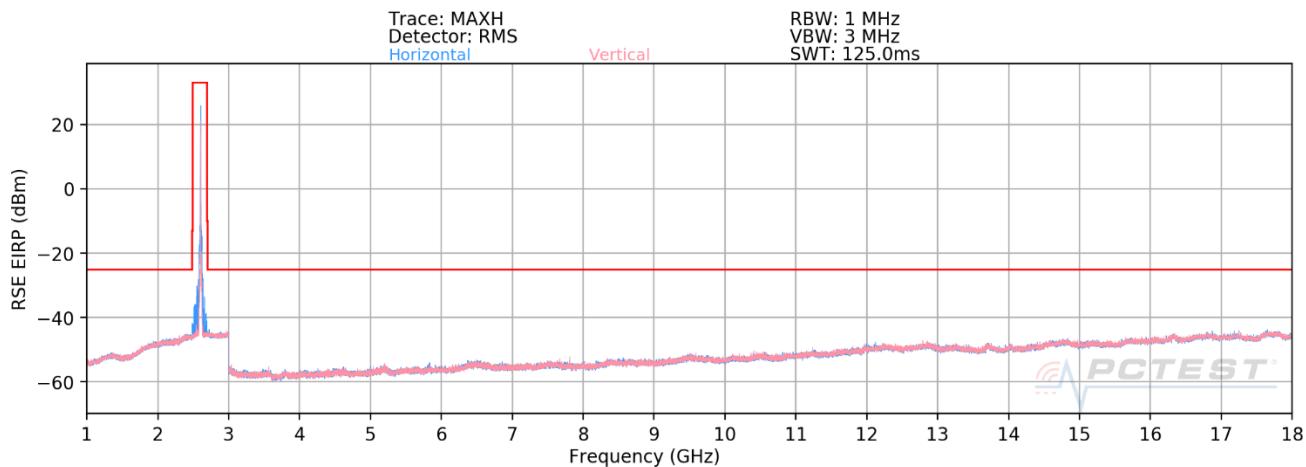
Table 7-164. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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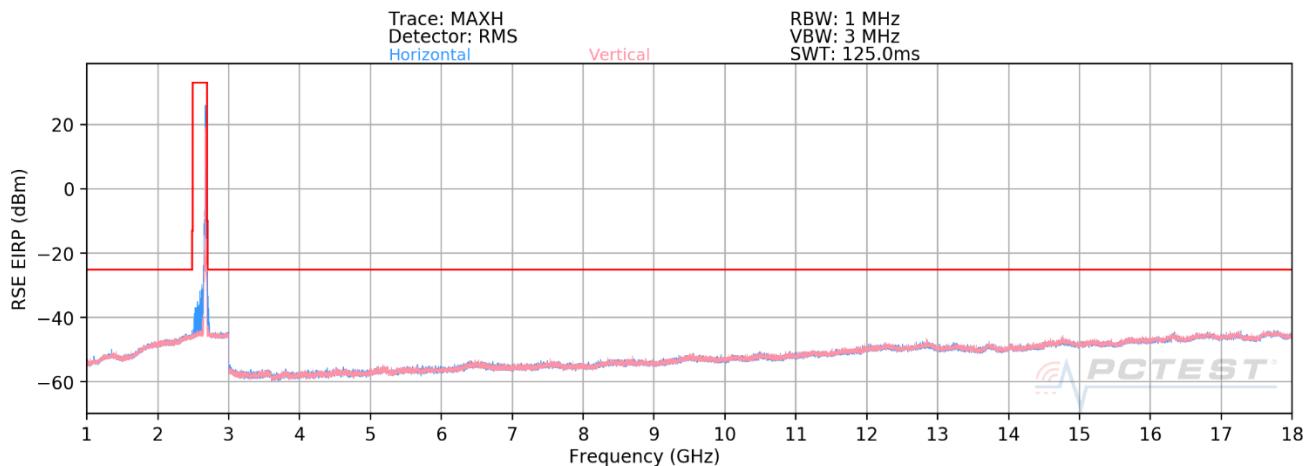
Band 41



Plot 7-445. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-446. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)



Plot 7-447. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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OPERATING FREQUENCY (PCC): 2506.00 MHz
 OPERATING FREQUENCY (SCC): 2525.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5012.00	V	-	-	-68.48	9.99	-58.49	-33.5
7518.00	V	285	98	-55.08	11.99	-43.09	-18.1
10024.00	V	-	-	-67.39	13.11	-54.28	-29.3
12530.00	V	-	-	-64.19	13.15	-51.05	-26.0
15036.00	V	-	-	-64.28	14.06	-50.23	-25.2

Table 7-165. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2593.00 MHz
 OPERATING FREQUENCY (SCC): 2612.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5186.00	V	-	-	-69.12	10.20	-58.92	-33.9
7779.00	V	100	103	-64.40	12.20	-52.20	-27.2
10372.00	V	-	-	-67.03	13.07	-53.96	-29.0
12965.00	V	-	-	-63.90	13.25	-50.65	-25.6
15558.00	V	-	-	-63.01	14.01	-49.00	-24.0

Table 7-166. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 366 of 398	



OPERATING FREQUENCY (PCC): 2680.00 MHz
OPERATING FREQUENCY (SCC): 2660.20 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5360.00	V	-	-	-68.06	10.37	-57.69	-32.7
8040.00	V	245	132	-65.11	12.53	-52.57	-27.6
10720.00	V	-	-	-66.05	13.07	-52.98	-28.0
13400.00	V	-	-	-64.14	13.78	-50.36	-25.4

Table 7-167. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 367 of 398	



7.10.3 ANT 1 (Port-B) Radiated Spurious Emissions Measurements

Band 5

OPERATING FREQUENCY (PCC):	829.00	MHz
OPERATING FREQUENCY (SCC):	838.90	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	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]	Margin [dB]
4780.00	H	-	-	-72.65	5.50	-67.15	-42.1
7170.00	H	371	61	-65.13	5.92	-59.21	-34.2
9560.00	H	-	-	-69.35	7.87	-61.48	-36.5
11950.00	H	-	-	-70.34	9.02	-61.32	-36.3
14340.00	H	-	-	-71.09	10.01	-61.07	-36.1

Table 7-168. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 49, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC):	844.00	MHz
OPERATING FREQUENCY (SCC):	834.10	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-25	dBm

Frequency [MHz]	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]	Margin [dB]
1688.00	V	-	-	-72.46	5.65	-66.81	-41.8
2532.00	V	371	61	-57.93	5.95	-51.98	-27.0
3376.00	V	-	-	-69.96	8.04	-61.92	-36.9
4220.00	V	-	-	-70.87	9.19	-61.68	-36.7
5064.00	V	-	-	-70.40	10.06	-60.34	-35.3

Table 7-169. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 368 of 398

7.10.4 ANT 2b (Port-B) Radiated Spurious Emissions Measurements

Band 7

OPERATING FREQUENCY (PCC): 2510.00 MHz
 OPERATING FREQUENCY (SCC): 2529.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5020.00	V	-	-	-70.33	10.13	-60.20	-35.2
7530.00	V	-	-	-69.67	12.02	-57.66	-32.7
10040.00	V	-	-	-69.08	13.11	-55.96	-31.0

Table 7-170. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2535.00 MHz
 OPERATING FREQUENCY (SCC): 2554.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5070.00	V	-	-	-70.58	10.16	-60.42	-35.4
7605.00	V	-	-	-69.54	11.98	-57.56	-32.6
10140.00	V	-	-	-68.37	13.03	-55.34	-30.3

Table 7-171. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 369 of 398	



OPERATING FREQUENCY (PCC): 2560.00 MHz
OPERATING FREQUENCY (SCC): 2540.20 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5120.00	V	-	-	-69.47	10.22	-59.25	-34.3
7680.00	V	-	-	-69.95	12.06	-57.89	-32.9
10240.00	V	-	-	-68.73	13.05	-55.67	-30.7

Table 7-172. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 370 of 398	



Band 41

OPERATING FREQUENCY (PCC): 2506.00 MHz
 OPERATING FREQUENCY (SCC): 2525.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5012.00	V	-	-	-70.66	9.99	-60.67	-35.7
7518.00	V	-	-	-71.30	11.99	-59.31	-34.3
10024.00	V	-	-	-69.29	13.11	-56.18	-31.2

Table 7-173. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2593.00 MHz
 OPERATING FREQUENCY (SCC): 2612.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5186.00	V	-	-	-70.63	10.20	-60.43	-35.4
7779.00	V	-	-	-70.13	12.20	-57.93	-32.9
10372.00	V	-	-	-68.44	13.07	-55.37	-30.4

Table 7-174. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			



OPERATING FREQUENCY (PCC): 2680.00 MHz
OPERATING FREQUENCY (SCC): 2660.20 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5360.00	V	-	-	-69.75	10.37	-59.38	-34.4
8040.00	V	-	-	-70.39	12.53	-57.85	-32.9
10720.00	V	-	-	-67.72	13.07	-54.65	-29.6

Table 7-175. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 372 of 398	

7.10.5 ANT 4a (Port-C) Radiated Spurious Emissions Measurements

Band 7

OPERATING FREQUENCY (PCC): 2510.00 MHz
 OPERATING FREQUENCY (SCC): 2529.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5020.00	V	-	-	-70.46	10.13	-60.33	-35.3
7530.00	V	-	-	-69.41	12.02	-57.40	-32.4
10040.00	V	-	-	-69.09	13.11	-55.97	-31.0

Table 7-176. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2535.00 MHz
 OPERATING FREQUENCY (SCC): 2554.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5070.00	V	-	-	-70.31	10.16	-60.15	-35.2
7605.00	V	-	-	-69.49	11.98	-57.51	-32.5
10140.00	V	-	-	-68.34	13.03	-55.31	-30.3

Table 7-177. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 373 of 398	



OPERATING FREQUENCY (PCC): 2560.00 MHz
OPERATING FREQUENCY (SCC): 2540.20 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5120.00	V	-	-	-69.95	10.22	-59.73	-34.7
7680.00	V	-	-	-69.83	12.06	-57.77	-32.8
10240.00	V	-	-	-68.62	13.05	-55.56	-30.6

Table 7-178. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 374 of 398	



Band 41

OPERATING FREQUENCY (PCC): 2506.00 MHz
 OPERATING FREQUENCY (SCC): 2525.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5012.00	V	-	-	-70.37	9.99	-60.38	-35.4
7518.00	V	-	-	-70.70	11.99	-58.71	-33.7
10024.00	V	-	-	-69.04	13.11	-55.93	-30.9

Table 7-179. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2593.00 MHz
 OPERATING FREQUENCY (SCC): 2612.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5186.00	V	-	-	-70.66	10.20	-60.46	-35.5
7779.00	V	-	-	-70.17	12.20	-57.97	-33.0
10372.00	V	-	-	-68.41	13.07	-55.34	-30.3

Table 7-180. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device			



OPERATING FREQUENCY (PCC): 2680.00 MHz
OPERATING FREQUENCY (SCC): 2660.20 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5360.00	V	-	-	-69.71	10.37	-59.34	-34.3
8040.00	V	-	-	-70.19	12.53	-57.65	-32.7
10720.00	V	-	-	-67.57	13.07	-54.50	-29.5

Table 7-181. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device		

7.10.6 ANT 2a (Port-D) Radiated Spurious Emissions Measurements

Band 7

OPERATING FREQUENCY (PCC): 2510.00 MHz
 OPERATING FREQUENCY (SCC): 2529.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5020.00	V	-	-	-69.51	10.13	-59.38	-34.4
7530.00	V	-	-	-69.50	12.02	-57.49	-32.5
10040.00	V	-	-	-69.98	13.11	-56.86	-31.9

Table 7-182. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2535.00 MHz
 OPERATING FREQUENCY (SCC): 2554.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5070.00	V	-	-	-69.39	10.16	-59.23	-34.2
7605.00	V	-	-	-70.84	11.98	-58.86	-33.9
10140.00	V	-	-	-68.90	13.03	-55.87	-30.9

Table 7-183. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 377 of 398	



OPERATING FREQUENCY (PCC): 2560.00 MHz
OPERATING FREQUENCY (SCC): 2540.20 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5120.00	V	-	-	-70.36	10.22	-60.14	-35.1
7680.00	V	-	-	-70.69	12.06	-58.63	-33.6
10240.00	V	-	-	-69.08	13.05	-56.02	-31.0

Table 7-184. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 378 of 398	



Band 41

OPERATING FREQUENCY (PCC): 2506.00 MHz
 OPERATING FREQUENCY (SCC): 2525.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5012.00	V	-	-	-69.18	9.99	-59.19	-34.2
7518.00	V	-	-	-69.66	11.99	-57.67	-32.7
10024.00	V	-	-	-68.03	13.11	-54.92	-29.9

Table 7-185. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

OPERATING FREQUENCY (PCC): 2593.00 MHz
 OPERATING FREQUENCY (SCC): 2612.80 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5186.00	V	-	-	-69.36	10.20	-59.16	-34.2
7779.00	V	-	-	-70.21	12.20	-58.01	-33.0
10372.00	V	-	-	-68.61	13.07	-55.54	-30.5

Table 7-186. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2230	PCTEST® MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device	Page 379 of 398	



OPERATING FREQUENCY (PCC): 2680.00 MHz
OPERATING FREQUENCY (SCC): 2660.20 MHz
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	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]	Margin [dB]
5360.00	V	-	-	-68.29	10.37	-57.92	-32.9
8040.00	V	-	-	-69.33	12.53	-56.79	-31.8
10720.00	V	-	-	-66.38	13.07	-53.31	-28.3

Table 7-187. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C1912170052-03.BCG	Test Dates: 12/10/2019 - 02/18/2020	EUT Type: Tablet Device		

7.11 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:

- Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- 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

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

Test Setup

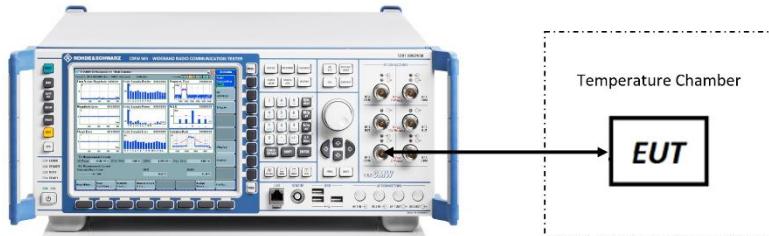


Figure 7-11. Test Instrument & Measurement Setup

Test Notes

- All ports were tested and only the worst case data were reported.
- Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

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Band 12/17 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	- 30	707,500,005	5	0.0000007
100 %		- 20	707,500,005	5	0.0000006
100 %		- 10	707,500,004	4	0.0000006
100 %		0	707,500,005	5	0.0000007
100 %		+ 10	707,500,004	4	0.0000005
100 %		+ 20	707,499,996	-4	-0.0000005
100 %		+ 30	707,500,003	3	0.0000005
100 %		+ 40	707,500,004	4	0.0000006
100 %		+ 50	707,500,004	4	0.0000006
BATT. ENDPOINT	3.20	+ 20	707,500,002	2	0.0000003

Table 7-188. Frequency Stability Data (Band 12/17)

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.

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Band 12/17 Frequency Stability Measurements

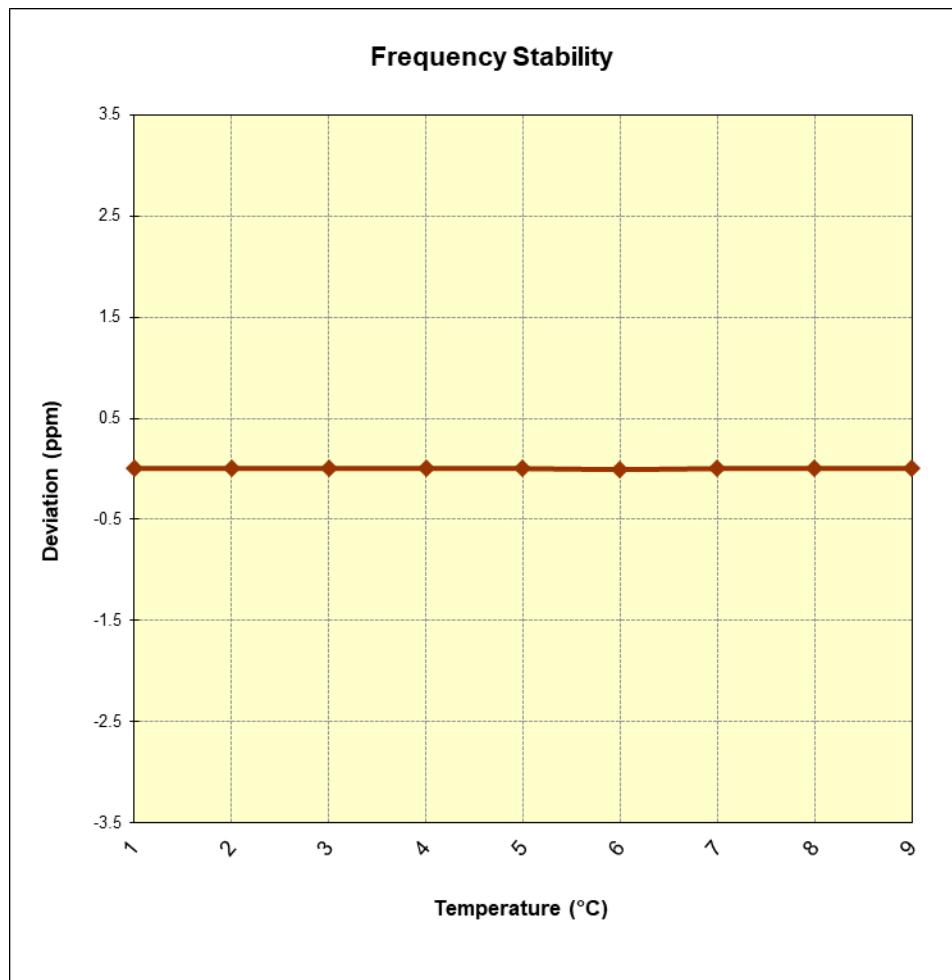


Figure 7-12. Frequency Stability Graph (Band 12/17)

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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	- 30	781,999,996	-4	-0.0000005
100 %		- 20	781,999,996	-4	-0.0000005
100 %		- 10	782,000,004	4	0.0000005
100 %		0	782,000,003	3	0.0000004
100 %		+ 10	782,000,004	4	0.0000006
100 %		+ 20	782,000,004	4	0.0000006
100 %		+ 30	782,000,004	4	0.0000005
100 %		+ 40	782,000,005	5	0.0000007
100 %		+ 50	782,000,005	5	0.0000007
BATT. ENDPOINT	3.20	+ 20	782,000,004	4	0.0000005

Table 7-189. 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: BCGA2230	PCTEST			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

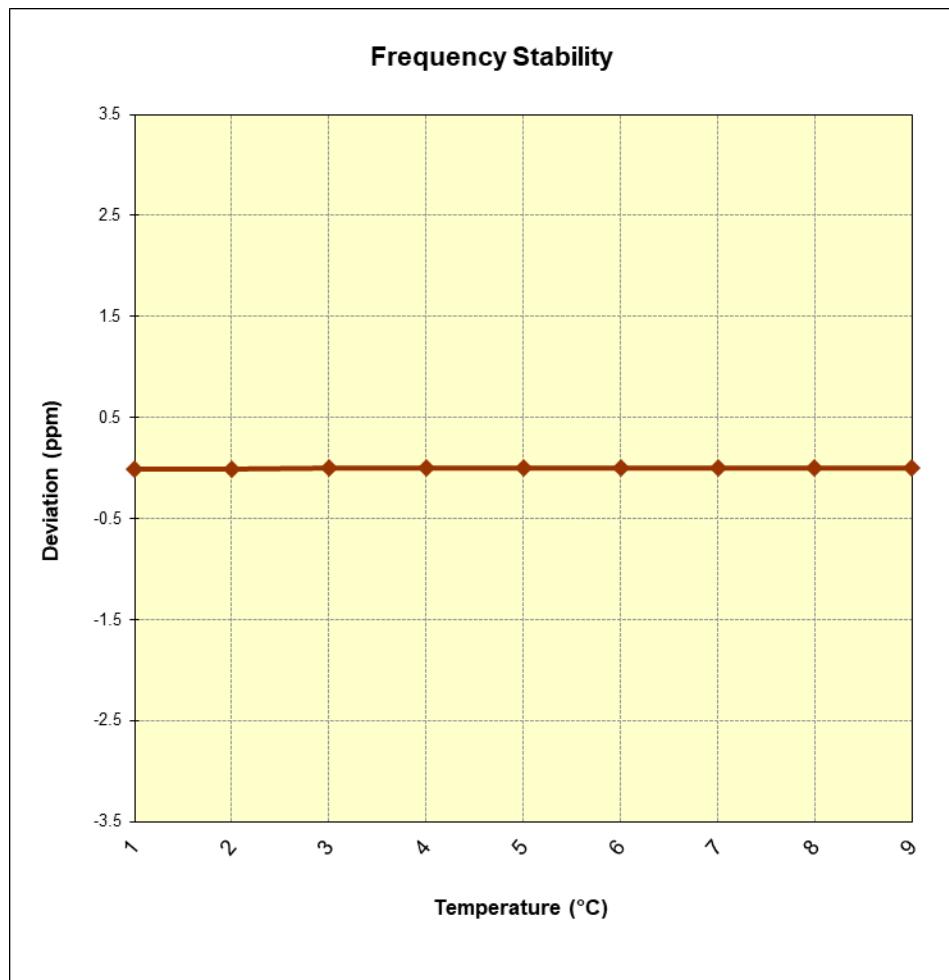


Figure 7-13. Frequency Stability Graph (Band 13)

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Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY:	836,500,000	Hz
CHANNEL:	26865	
REFERENCE VOLTAGE:	3.80	VDC
DEVIATION LIMIT:	$\pm 0.00025\%$ or 2.5 ppm	

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,005	5	0.0000006
100 %		- 20	836,500,004	4	0.0000005
100 %		- 10	836,500,004	4	0.0000005
100 %		0	836,500,004	4	0.0000005
100 %		+ 10	836,500,005	5	0.0000006
100 %		+ 20	836,500,005	5	0.0000006
100 %		+ 30	836,500,006	6	0.0000007
100 %		+ 40	836,500,004	4	0.0000005
100 %		+ 50	836,500,004	4	0.0000005
BATT. ENDPOINT	3.20	+ 20	836,500,006	6	0.0000007

Table 7-190. Frequency Stability Data (Band 26/5)

FCC ID: BCGA2230	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

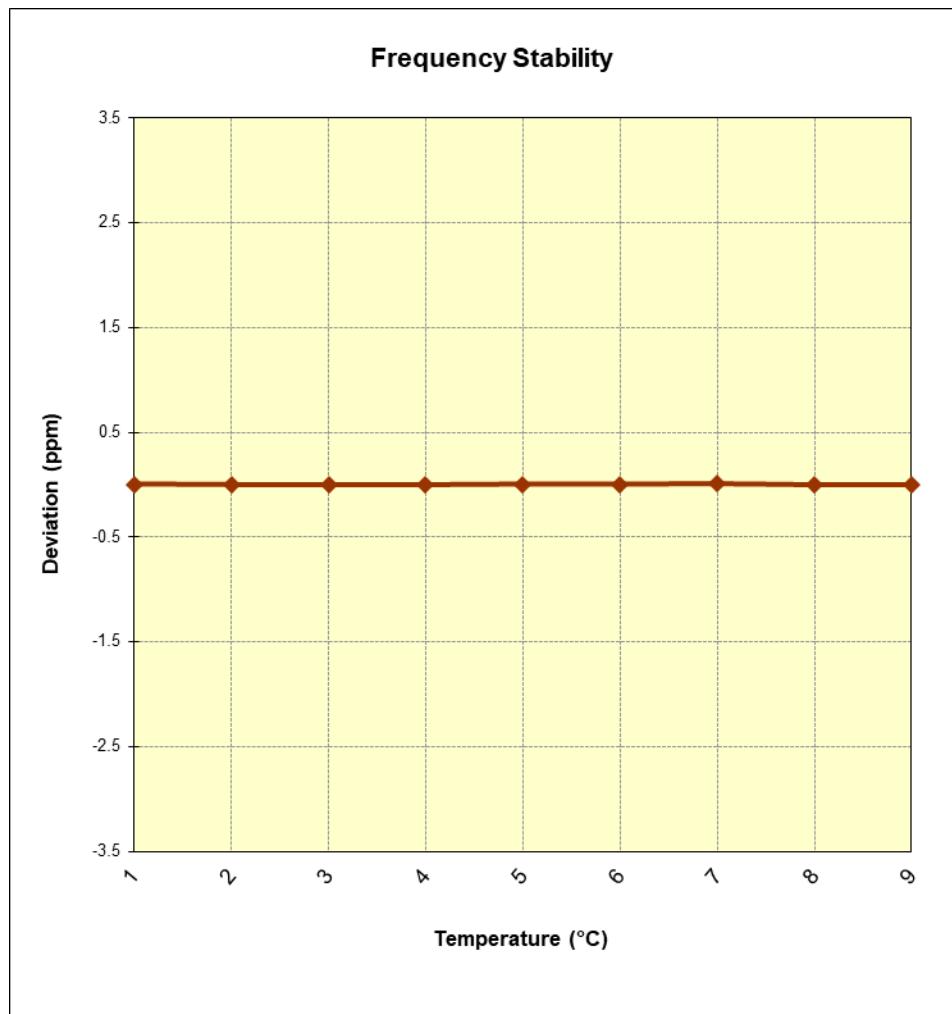


Figure 7-14. Frequency Stability Graph (Band 26/5)

FCC ID: BCGA2230	 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	1,745,000,008	8	0.0000004
100 %		- 20	1,745,000,007	7	0.0000004
100 %		- 10	1,745,000,007	7	0.0000004
100 %		0	1,745,000,008	8	0.0000005
100 %		+ 10	1,745,000,008	8	0.0000005
100 %		+ 20	1,745,000,006	6	0.0000004
100 %		+ 30	1,745,000,006	6	0.0000003
100 %		+ 40	1,745,000,008	8	0.0000005
100 %		+ 50	1,745,000,009	9	0.0000005
BATT. ENDPOINT	3.20	+ 20	1,745,000,003	3	0.0000002

Table 7-191. Frequency Stability Data (Band 66/4)

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.

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Band 66/4 Frequency Stability Measurements

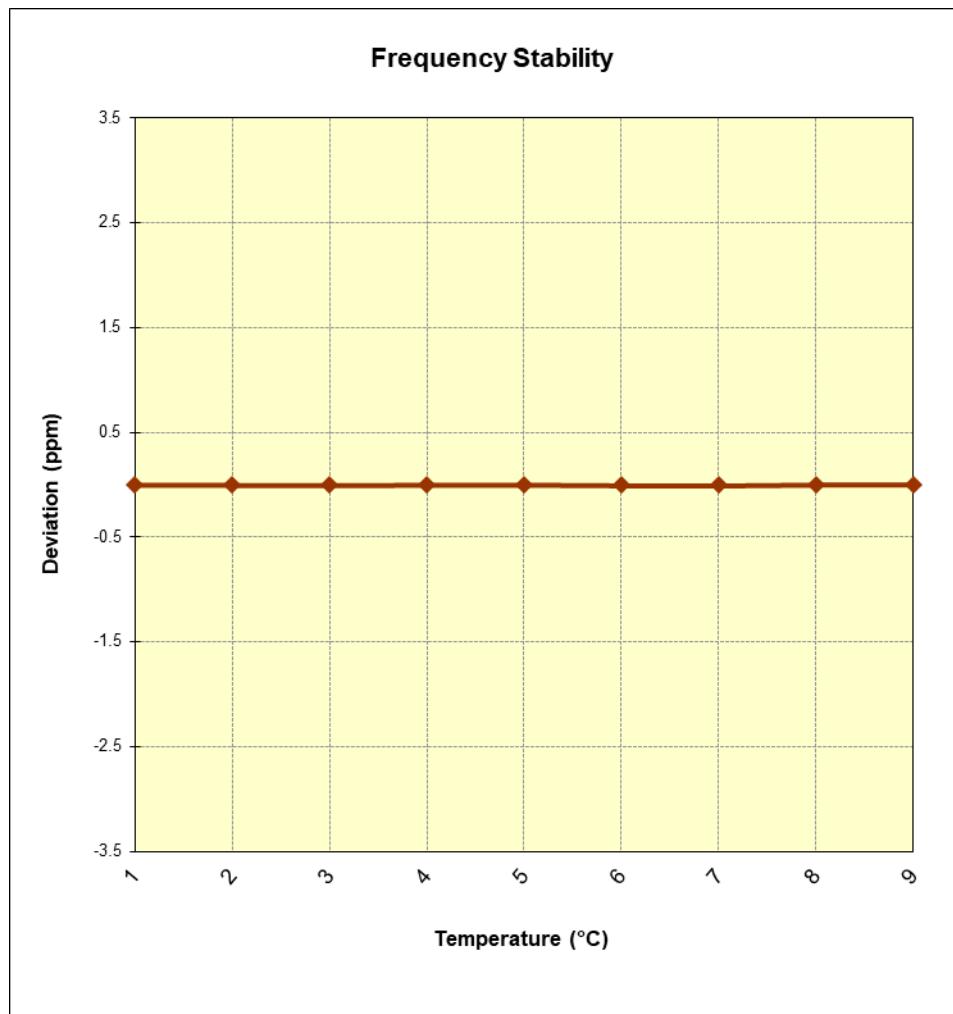


Figure 7-15. Frequency Stability Graph (Band 66/4)

FCC ID: BCGA2230	 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	1,882,500,008	8	0.0000004
100 %		- 20	1,882,500,009	9	0.0000005
100 %		- 10	1,882,500,008	8	0.0000004
100 %		0	1,882,500,008	8	0.0000004
100 %		+ 10	1,882,500,007	7	0.0000004
100 %		+ 20	1,882,500,007	7	0.0000004
100 %		+ 30	1,882,500,007	7	0.0000003
100 %		+ 40	1,882,500,007	7	0.0000004
100 %		+ 50	1,882,500,008	8	0.0000004
BATT. ENDPOINT	3.20	+ 20	1,882,500,005	5	0.0000003

Table 7-192. Frequency Stability Data (Band 25/2)

FCC ID: BCGA2230		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25/2 Frequency Stability Measurements

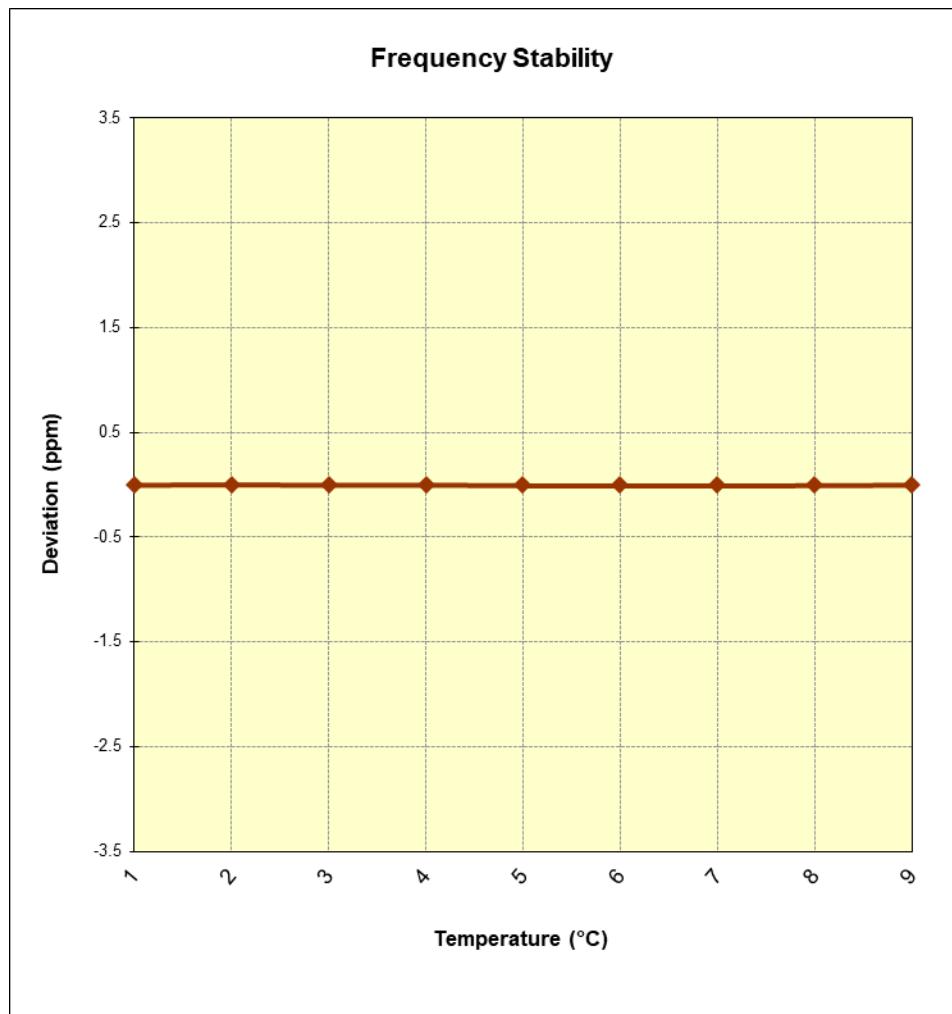


Figure 7-16. Frequency Stability Graph (Band 25/2)

FCC ID: BCGA2230	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 30 Frequency Stability Measurements

OPERATING FREQUENCY:	2,310,000,000	Hz
CHANNEL:	27710	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,310,000,012	12	0.0000005
100 %		- 20	2,310,000,013	13	0.0000005
100 %		- 10	2,310,000,012	12	0.0000005
100 %		0	2,310,000,011	11	0.0000005
100 %		+ 10	2,310,000,013	13	0.0000005
100 %		+ 20	2,310,000,009	9	0.0000004
100 %		+ 30	2,310,000,010	10	0.0000004
100 %		+ 40	2,310,000,009	9	0.0000004
100 %		+ 50	2,310,000,010	10	0.0000005
BATT. ENDPOINT	3.20	+ 20	2,310,000,011	11	0.0000005

Table 7-193. Frequency Stability Data (Band 30)

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 30 Frequency Stability Measurements

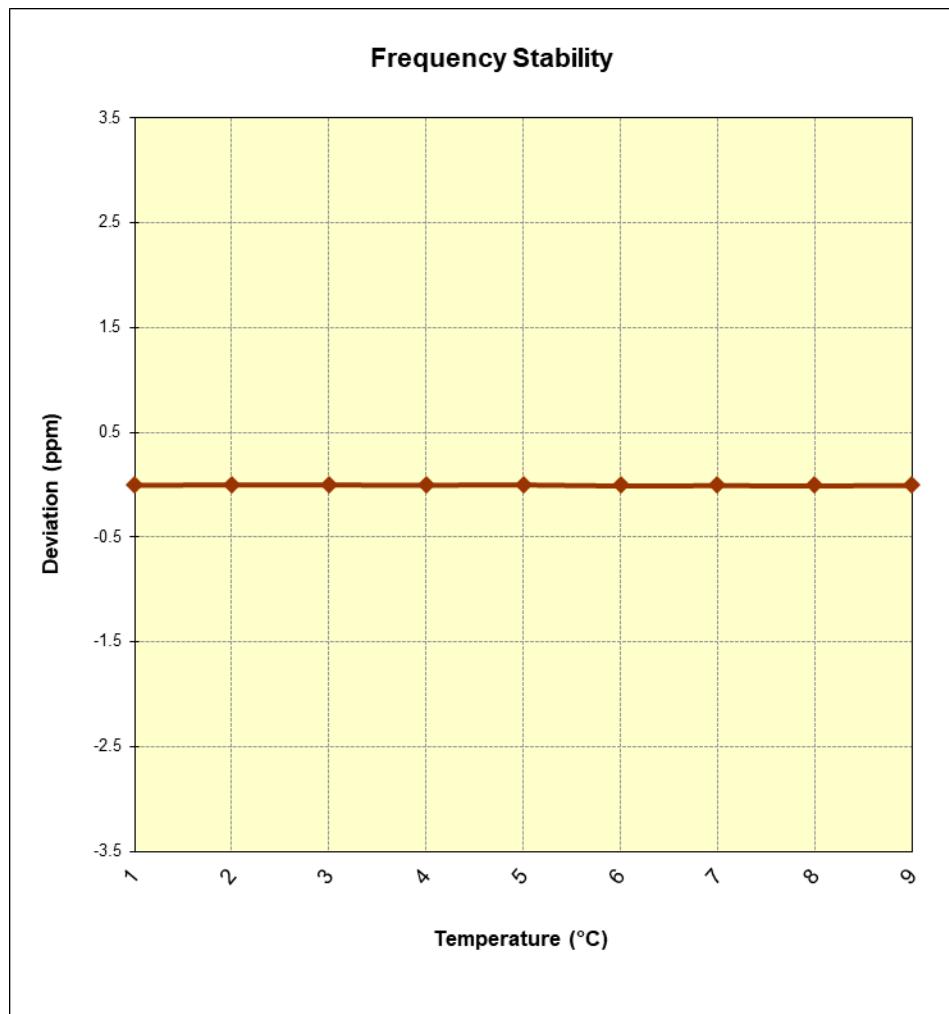


Figure 7-17. Frequency Stability Graph (Band 30)

FCC ID: BCGA2230	 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	2,535,000,011	11	0.0000004
100 %		- 20	2,535,000,010	10	0.0000004
100 %		- 10	2,535,000,011	11	0.0000004
100 %		0	2,535,000,011	11	0.0000004
100 %		+ 10	2,535,000,010	10	0.0000004
100 %		+ 20	2,535,000,011	11	0.0000004
100 %		+ 30	2,535,000,011	11	0.0000004
100 %		+ 40	2,535,000,011	11	0.0000004
100 %		+ 50	2,535,000,011	11	0.0000004
BATT. ENDPOINT	3.20	+ 20	2,535,000,009	9	0.0000004

Table 7-194. Frequency Stability Data (Band 7)

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

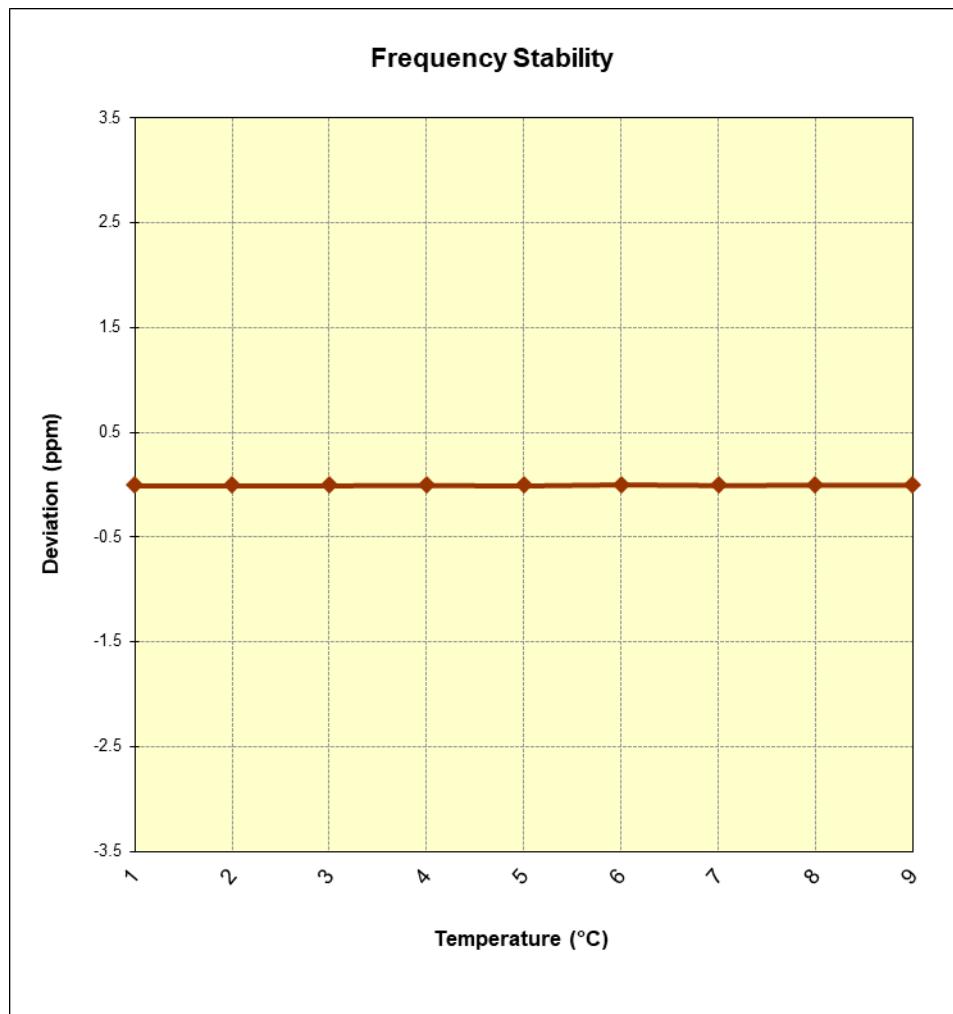


Figure 7-18. Frequency Stability Graph (Band 7)

FCC ID: BCGA2230	 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	2,593,000,020	20	0.0000008
100 %		- 20	2,593,000,020	20	0.0000008
100 %		- 10	2,593,000,019	19	0.0000007
100 %		0	2,593,000,020	20	0.0000008
100 %		+ 10	2,593,000,016	16	0.0000006
100 %		+ 20	2,593,000,015	15	0.0000006
100 %		+ 30	2,593,000,017	17	0.0000006
100 %		+ 40	2,593,000,018	18	0.0000007
100 %		+ 50	2,593,000,018	18	0.0000007
BATT. ENDPOINT	3.20	+ 20	2,593,000,022	22	0.0000008

Table 7-195. 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

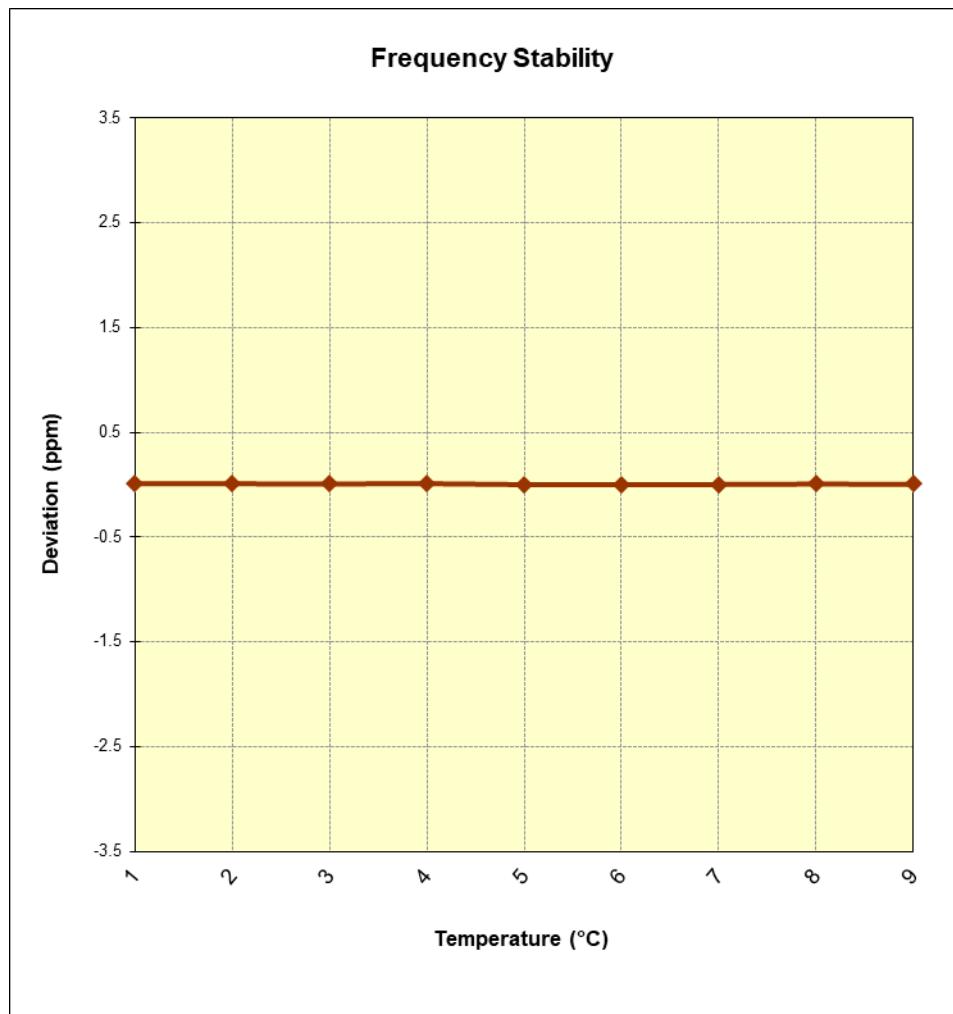


Figure 7-19. Frequency Stability Graph (Band 41)

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2230** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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