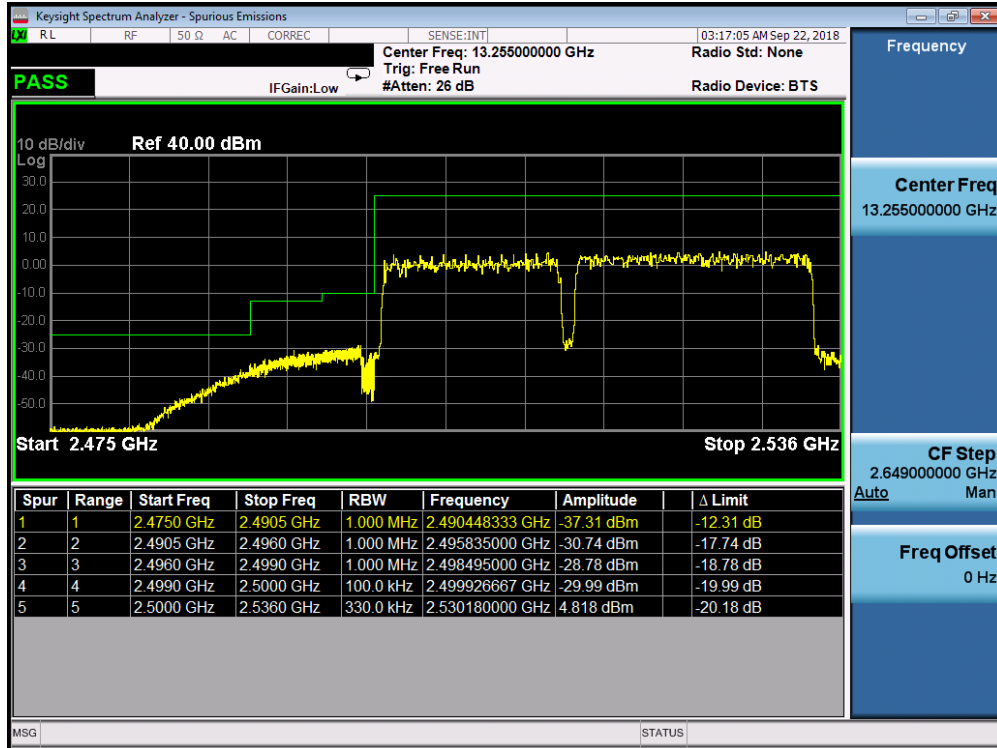
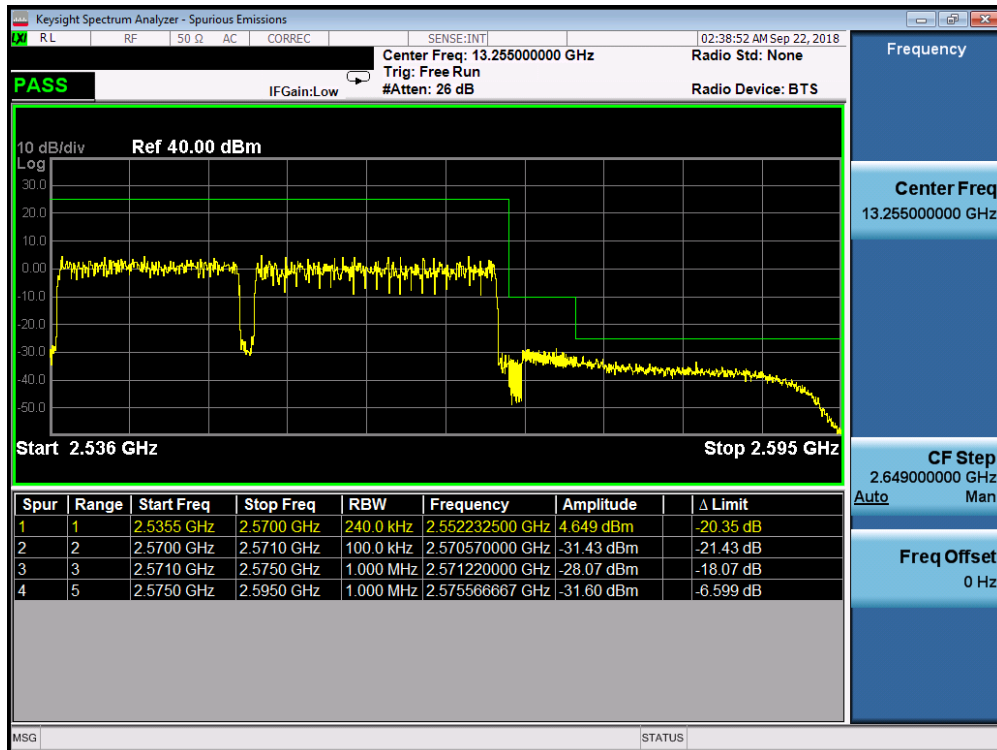


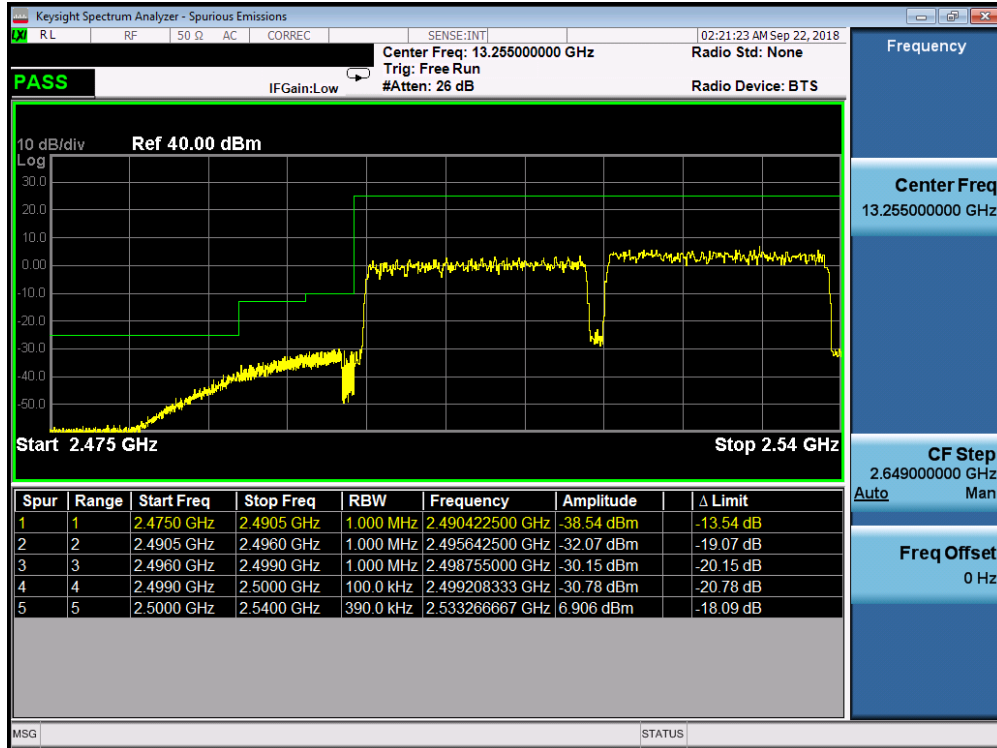


Plot 7-428. Lower ACP Plot (Band 7 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)

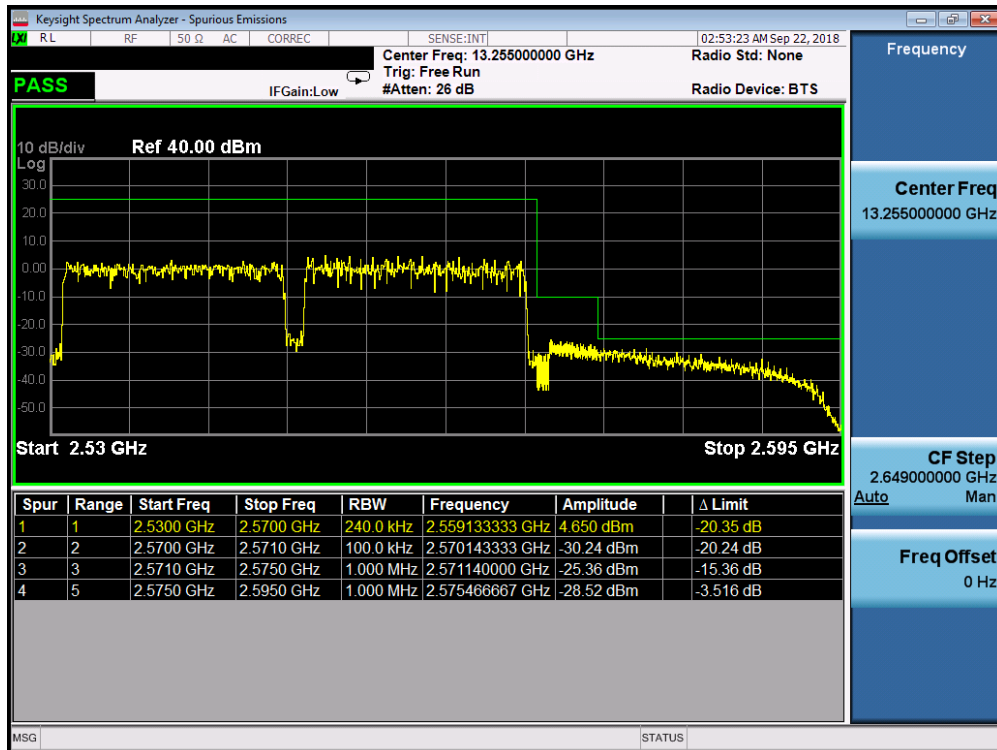


Plot 7-429. Upper ACP Plot (Band 7 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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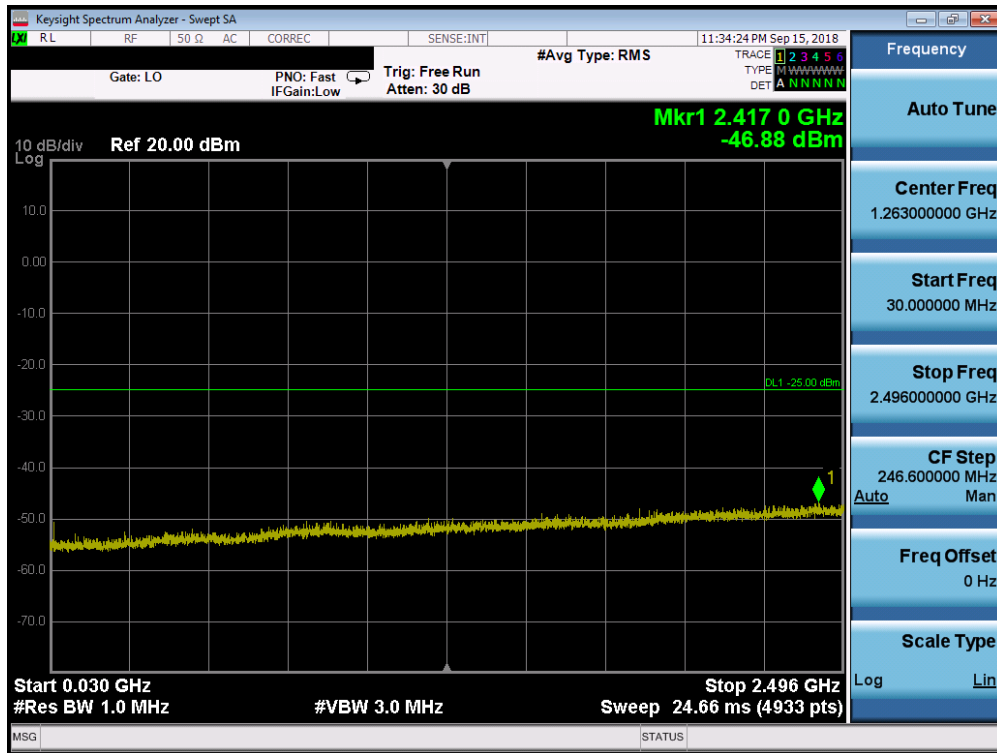
Plot 7-430. Lower ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)



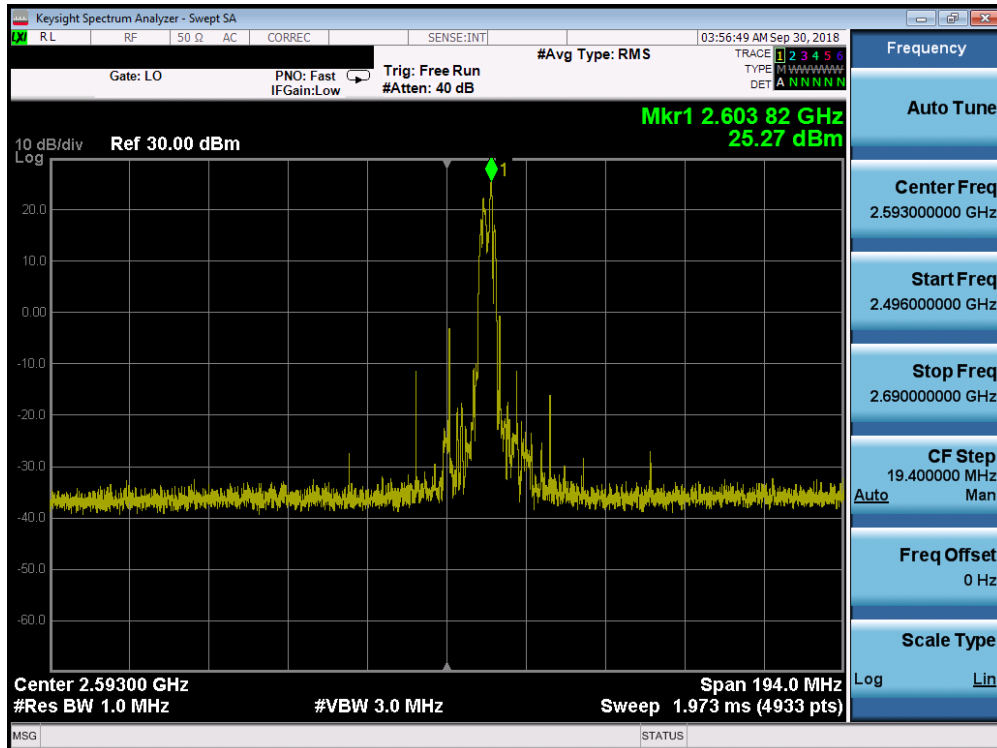
Plot 7-431. Upper ACP Plot (Band 7 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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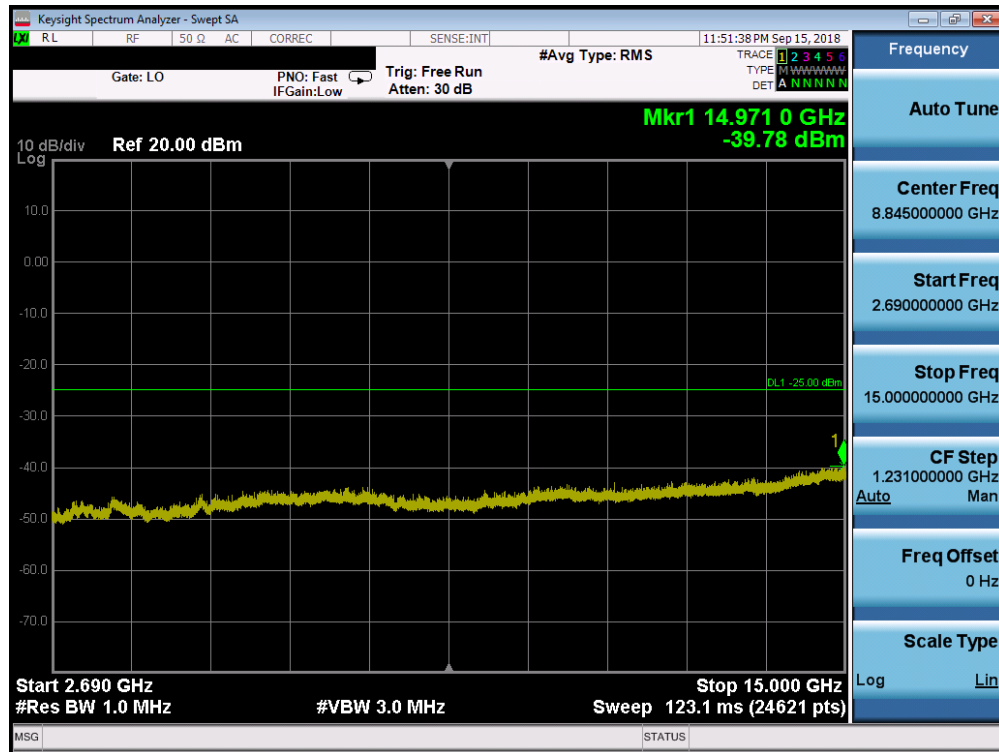


Plot 7-432. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

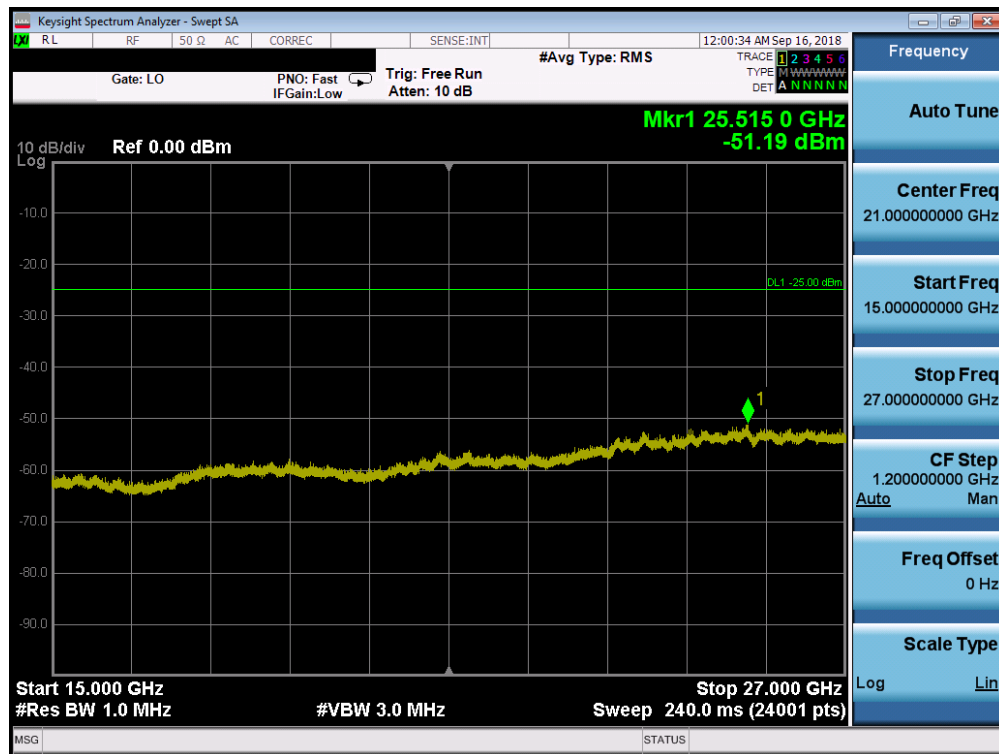


Plot 7-433. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2013	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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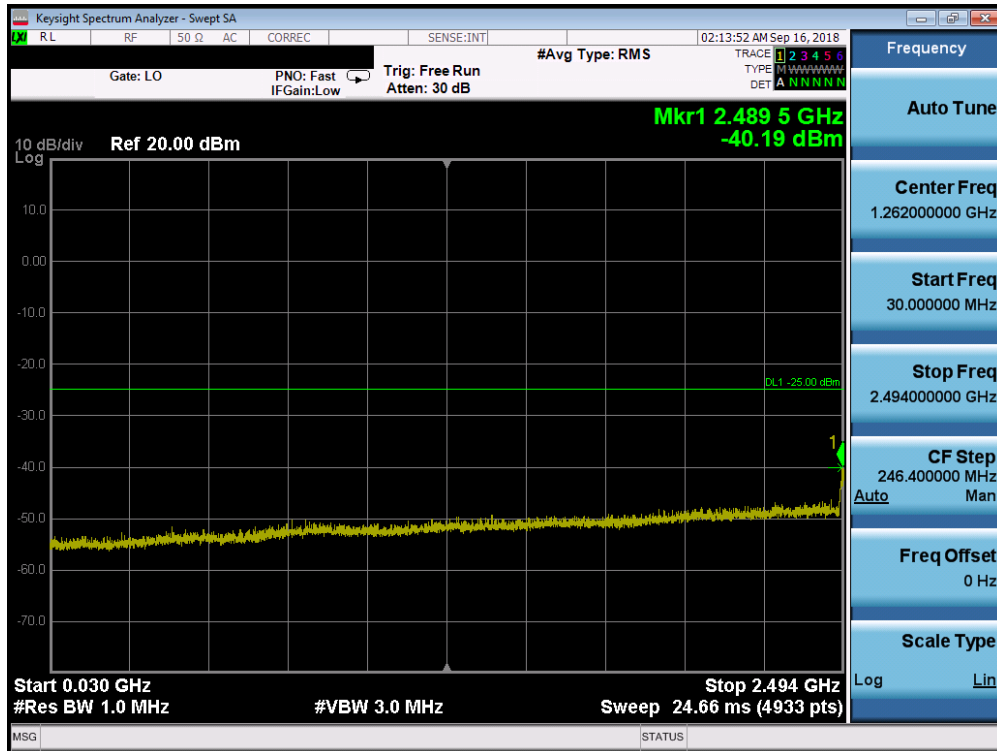


Plot 7-434. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

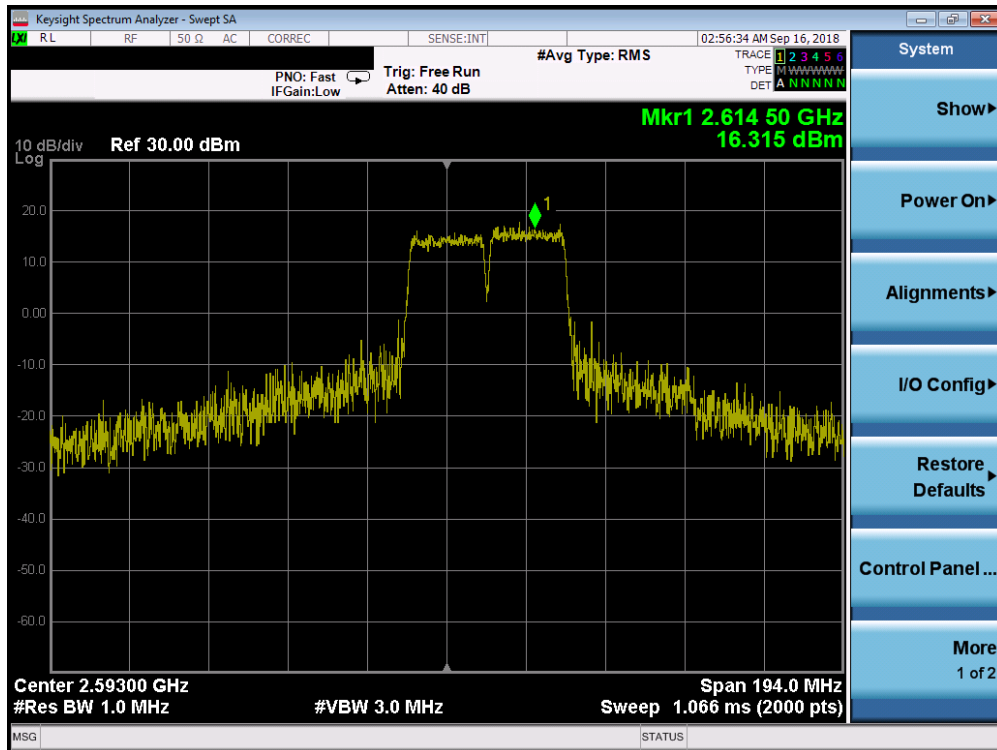


Plot 7-435. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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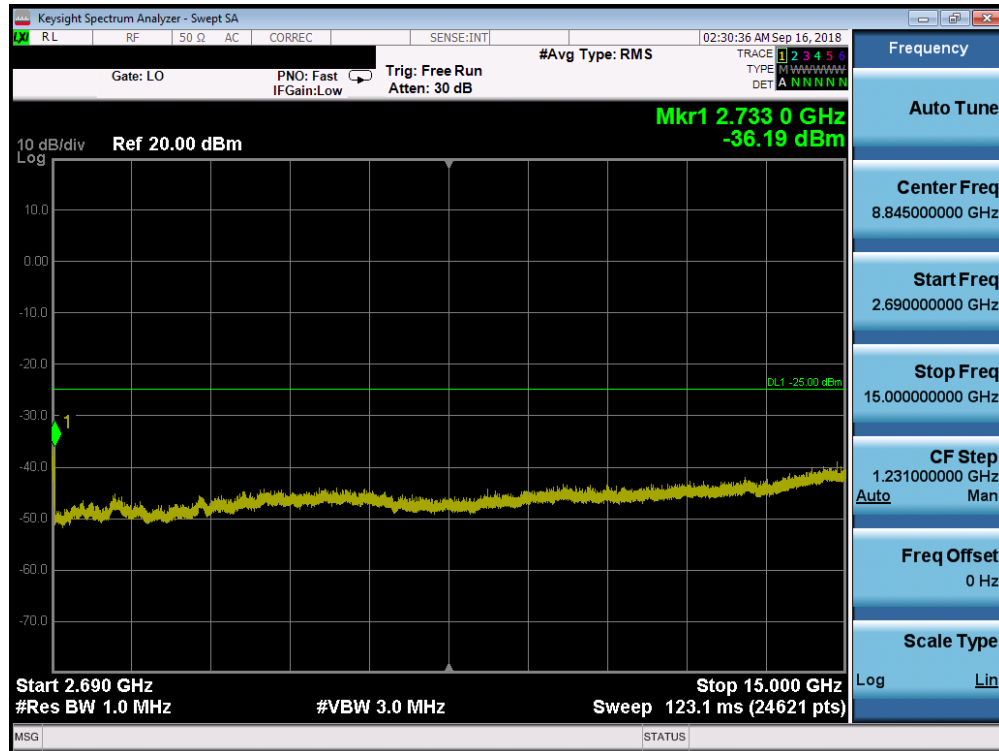


Plot 7-436. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

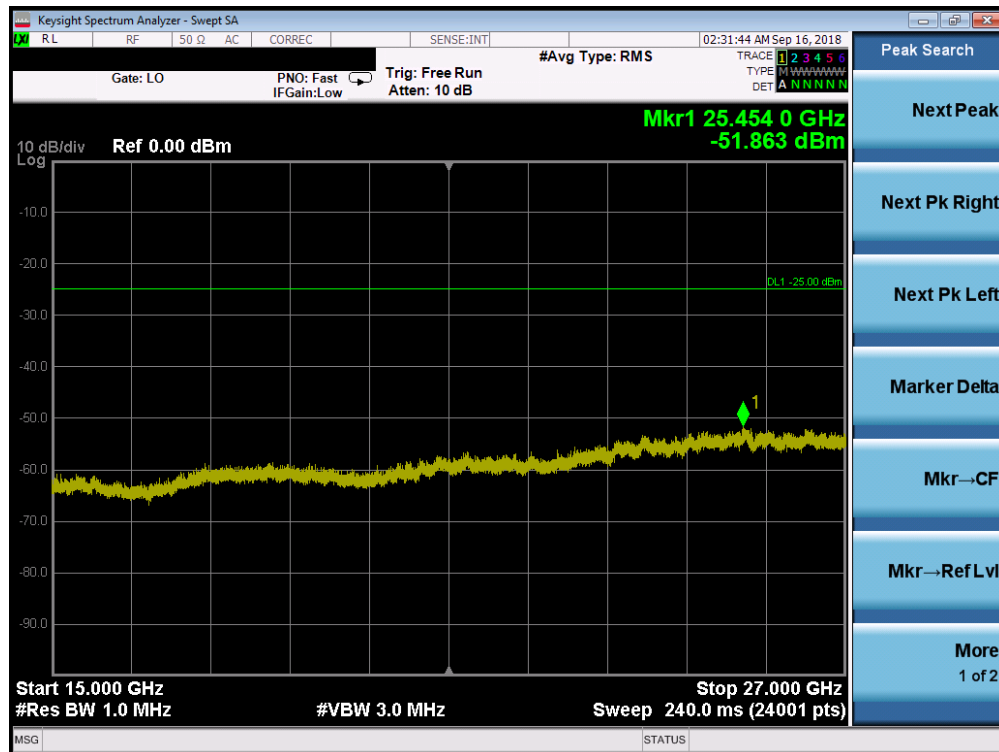


Plot 7-437. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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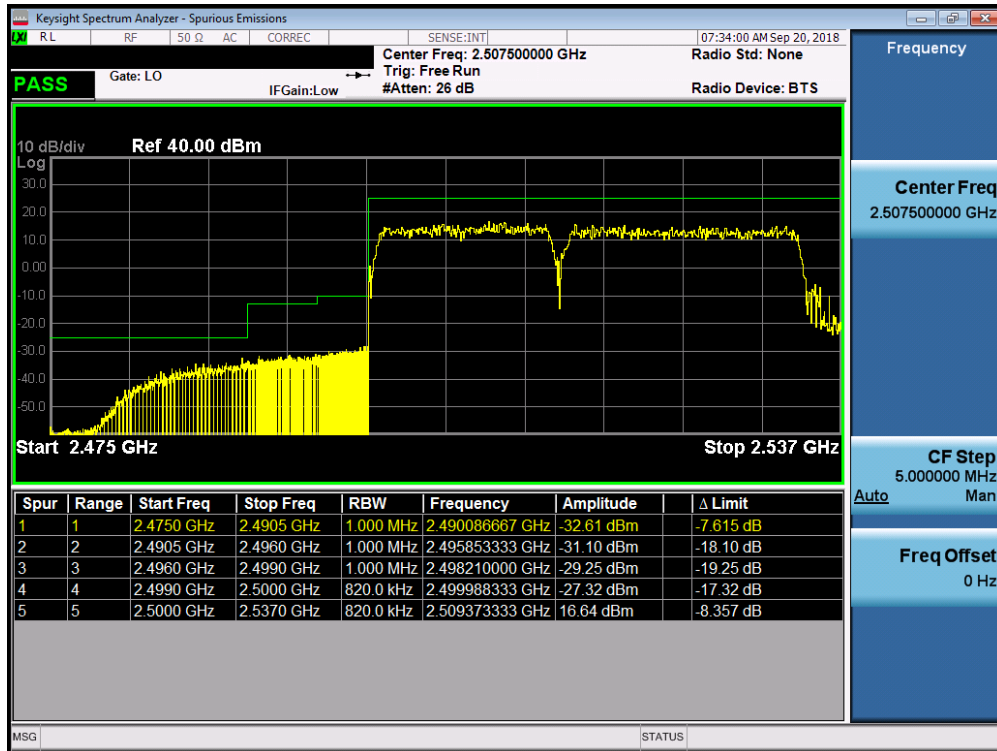


Plot 7-438. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

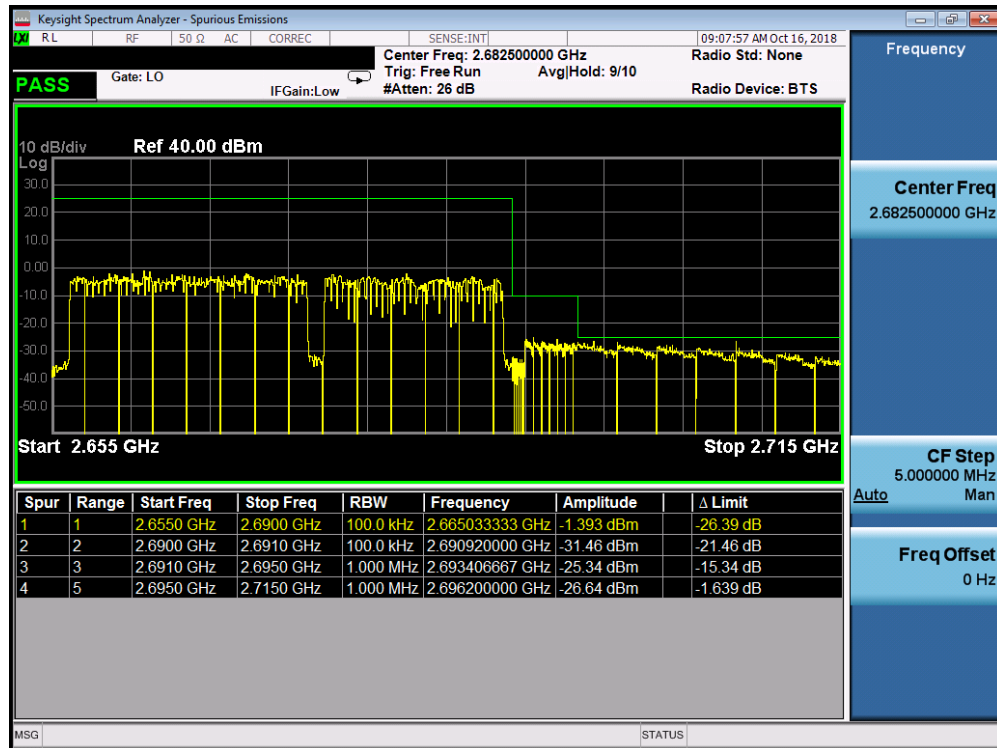


Plot 7-439. Conducted Spurious Plot (41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Mid Channel)

FCC ID: BCGA2013	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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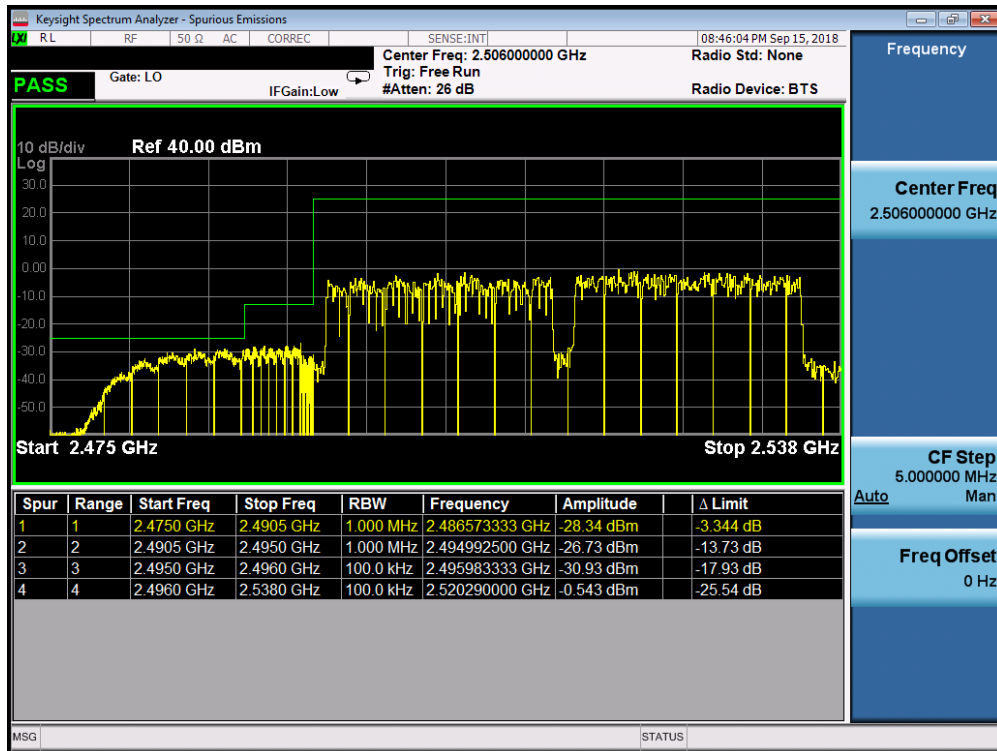


Plot 7-440. Lower ACP Plot (41 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)

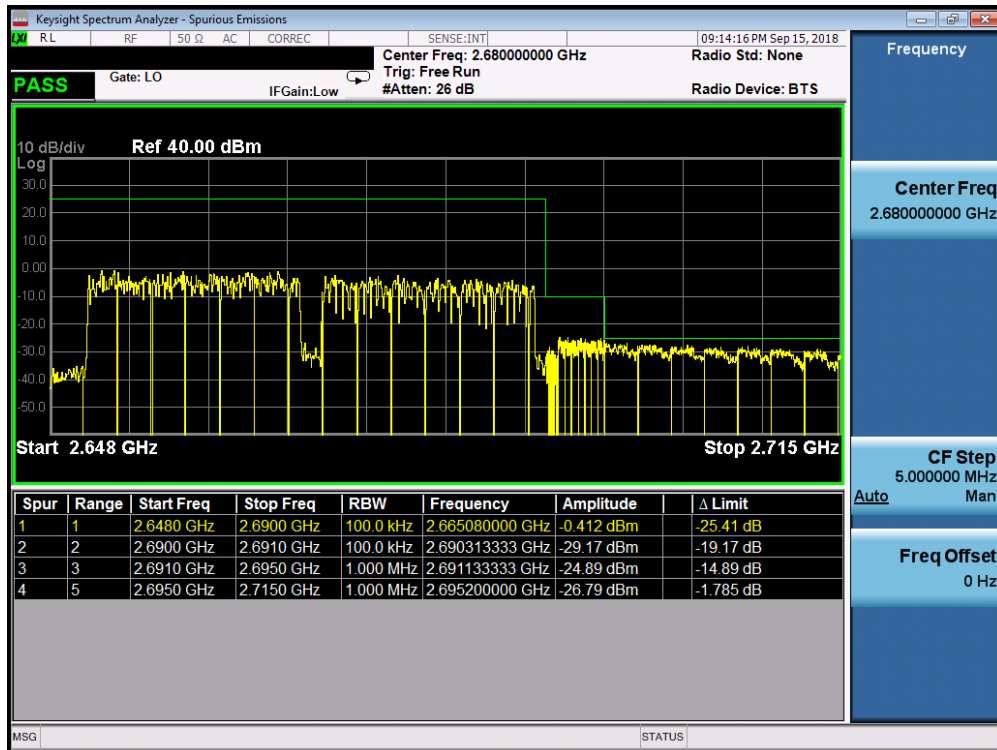


Plot 7-441. Upper ACP Plot (41 QPSK – PCC:15 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2013	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-442. Lower ACP Plot (41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)



Plot 7-443. Upper ACP Plot (41 QPSK – PCC:20 MHz SCC:20 MHz – Full RB)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.7 Radiated Power (ERP/EIRP)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – Section 2.2.17

Test Settings

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

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

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 7-6. 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 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

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7.7.1 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]
665.50	5	QPSK	1 / 24	25.50	-2.90	20.45	0.111	34.77	-14.32
680.50	5	QPSK	1 / 0	25.41	-3.80	19.46	0.088	34.77	-15.31
695.50	5	QPSK	1 / 24	25.49	-5.60	17.74	0.059	34.77	-17.03
665.50	5	16-QAM	1 / 12	24.79	-2.90	19.74	0.094	34.77	-15.03
665.50	5	64-QAM	1 / 0	24.16	-2.90	19.11	0.081	34.77	-15.66
668.00	10	QPSK	1 / 25	25.48	-2.90	20.43	0.110	34.77	-14.34
680.50	10	QPSK	1 / 0	25.50	-3.80	19.55	0.090	34.77	-15.22
693.00	10	QPSK	1 / 0	25.47	-5.60	17.72	0.059	34.77	-17.05
668.00	10	16-QAM	1 / 25	24.94	-2.90	19.89	0.097	34.77	-14.88
668.00	10	64-QAM	1 / 0	24.12	-2.90	19.07	0.081	34.77	-15.70
670.50	15	QPSK	1 / 36	25.50	-2.90	20.45	0.111	34.77	-14.32
680.50	15	QPSK	1 / 36	25.46	-3.80	19.51	0.089	34.77	-15.26
690.50	15	QPSK	1 / 36	25.46	-4.70	18.61	0.073	34.77	-16.16
670.50	15	16-QAM	1 / 36	24.90	-2.90	19.85	0.097	34.77	-14.92
670.50	15	64-QAM	1 / 0	24.20	-2.90	19.15	0.082	34.77	-15.62
673.00	20	QPSK	1 / 99	25.43	-3.00	20.28	0.107	34.77	-14.49
683.00	20	QPSK	1 / 50	25.50	-3.80	19.55	0.090	34.77	-15.22
688.00	20	QPSK	1 / 0	25.48	-4.70	18.63	0.073	34.77	-16.14
673.00	20	16-QAM	1 / 99	24.95	-3.00	19.80	0.095	34.77	-14.97
673.00	20	64-QAM	1 / 99	24.16	-3.00	19.01	0.080	34.77	-15.76

Table 7-19. ERP Data (Band 71)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	1 / 0	25.14	-2.10	20.89	0.123	34.77	-13.88
707.50	1.4	QPSK	3 / 3	25.29	-2.10	21.04	0.127	34.77	-13.73
715.30	1.4	QPSK	3 / 2	25.20	-2.10	20.95	0.125	34.77	-13.82
707.50	1.4	16-QAM	1 / 2	24.72	-2.10	20.47	0.111	34.77	-14.30
707.50	1.4	64-QAM	1 / 0	23.75	-2.10	19.50	0.089	34.77	-15.27
700.50	3	QPSK	1 / 7	25.22	-2.10	20.97	0.125	34.77	-13.80
707.50	3	QPSK	1 / 7	25.16	-2.10	20.91	0.123	34.77	-13.86
714.50	3	QPSK	1 / 7	24.98	-2.10	20.73	0.118	34.77	-14.05
707.50	3	16-QAM	1 / 7	24.78	-2.10	20.53	0.113	34.77	-14.24
707.50	3	64-QAM	1 / 7	23.71	-2.10	19.46	0.088	34.77	-15.31
701.50	5	QPSK	1 / 24	25.47	-2.10	21.22	0.133	34.77	-13.55
707.50	5	QPSK	1 / 12	25.43	-2.10	21.18	0.131	34.77	-13.59
713.50	5	QPSK	1 / 24	25.49	-2.10	21.24	0.133	34.77	-13.53
707.50	5	16-QAM	1 / 12	24.82	-2.10	20.57	0.114	34.77	-14.20
707.50	5	64-QAM	1 / 24	23.78	-2.10	19.53	0.090	34.77	-15.24
704.00	10	QPSK	1 / 49	25.44	-2.10	21.19	0.131	34.77	-13.58
707.50	10	QPSK	1 / 25	25.46	-2.10	21.21	0.132	34.77	-13.56
711.00	10	QPSK	1 / 0	25.50	-2.10	21.25	0.133	34.77	-13.52
711.00	10	16-QAM	1 / 0	24.84	-2.10	20.59	0.115	34.77	-14.18
711.00	10	64-QAM	1 / 25	23.82	-2.10	19.57	0.091	34.77	-15.20

Table 7-20. ERP Data (Band 12)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
706.50	5	QPSK	1 / 0	25.38	-2.10	21.13	0.130	34.77	-13.65
710.00	5	QPSK	1 / 0	24.87	-2.10	20.62	0.115	34.77	-14.15
713.50	5	QPSK	1 / 24	24.79	-2.10	20.54	0.113	34.77	-14.24
710.00	5	16-QAM	1 / 0	24.21	-2.10	19.96	0.099	34.77	-14.81
710.00	5	64-QAM	1 / 24	23.87	-2.10	19.62	0.092	34.77	-15.15
710.00	10	QPSK	1 / 0	24.80	-2.10	20.55	0.113	34.77	-14.23
710.00	10	16-QAM	1 / 0	24.15	-2.10	19.90	0.098	34.77	-14.87
710.00	10	64-QAM	1 / 25	23.80	-2.10	19.55	0.090	34.77	-15.22

Table 7-21. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	25.50	-2.10	21.25	0.133	34.77	-13.52
782.00	5	QPSK	1 / 24	25.48	-2.10	21.23	0.133	34.77	-13.54
784.50	5	QPSK	1 / 24	25.50	-2.10	21.25	0.133	34.77	-13.52
779.50	5	16-QAM	1 / 24	25.13	-2.10	20.88	0.122	34.77	-13.89
779.50	5	64-QAM	1 / 0	24.15	-2.10	19.90	0.098	34.77	-14.87
782.00	10	QPSK	1 / 49	25.50	-2.10	21.25	0.133	34.77	-13.52
782.00	10	16-QAM	1 / 49	25.02	-2.10	20.77	0.119	34.77	-14.00
782.00	10	64-QAM	1 / 49	24.28	-2.10	20.03	0.101	34.77	-14.74

Table 7-22. ERP Data (Band 13)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	25.45	-0.60	22.70	0.186	38.45	-15.75
836.50	1.4	QPSK	3 / 2	25.29	-0.60	22.54	0.180	38.45	-15.91
848.30	1.4	QPSK	3 / 2	25.30	-0.60	22.55	0.180	38.45	-15.90
836.50	1.4	16-QAM	1 / 5	24.70	-0.60	21.95	0.157	38.45	-16.50
836.50	1.4	64-QAM	1 / 2	23.79	-0.60	21.04	0.127	38.45	-17.41
825.50	3	QPSK	1 / 0	25.43	-0.60	22.68	0.185	38.45	-15.77
836.50	3	QPSK	1 / 7	25.21	-0.60	22.46	0.176	38.45	-15.99
847.50	3	QPSK	1 / 7	25.09	-0.60	22.34	0.171	38.45	-16.11
836.50	3	16-QAM	1 / 7	24.70	-0.60	21.95	0.157	38.45	-16.50
836.50	3	64-QAM	1 / 7	23.84	-0.60	21.09	0.129	38.45	-17.36
826.50	5	QPSK	1 / 0	25.49	-0.60	22.74	0.188	38.45	-15.71
836.50	5	QPSK	1 / 0	25.27	-0.60	22.52	0.179	38.45	-15.93
846.50	5	QPSK	1 / 24	25.44	-0.60	22.69	0.186	38.45	-15.76
836.50	5	16-QAM	1 / 0	24.73	-0.60	21.98	0.158	38.45	-16.47
836.50	5	64-QAM	1 / 0	23.86	-0.60	21.11	0.129	38.45	-17.34
829.00	10	QPSK	1 / 0	25.48	-0.60	22.73	0.187	38.45	-15.72
836.50	10	QPSK	1 / 49	25.46	-0.60	22.71	0.187	38.45	-15.74
844.00	10	QPSK	1 / 0	25.45	-0.60	22.70	0.186	38.45	-15.75
836.50	10	16-QAM	1 / 49	24.78	-0.60	22.03	0.160	38.45	-16.42
836.50	10	64-QAM	1 / 49	23.85	-0.60	21.10	0.129	38.45	-17.35

Table 7-23. ERP Data (Band 5)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	1 / 0	25.50	-0.60	22.75	0.188	38.45	-15.70
836.50	1.4	QPSK	1 / 0	25.49	-0.60	22.74	0.188	38.45	-15.71
848.30	1.4	QPSK	1 / 3	25.38	-0.60	22.63	0.183	38.45	-15.82
836.50	1.4	16-QAM	1 / 0	24.75	-0.60	22.00	0.159	38.45	-16.45
836.50	1.4	64-QAM	1 / 0	23.86	-0.60	21.11	0.129	38.45	-17.34
825.50	3	QPSK	1 / 7	25.49	-0.60	22.74	0.188	38.45	-15.71
836.50	3	QPSK	1 / 7	25.30	-0.60	22.55	0.180	38.45	-15.90
847.50	3	QPSK	1 / 7	25.28	-0.60	22.53	0.179	38.45	-15.93
836.50	3	16-QAM	1 / 14	24.81	-0.60	22.06	0.161	38.45	-16.39
836.50	3	64-QAM	1 / 7	23.81	-0.60	21.06	0.128	38.45	-17.39
826.50	5	QPSK	1 / 0	25.46	-0.60	22.71	0.187	38.45	-15.74
836.50	5	QPSK	1 / 24	25.34	-0.60	22.59	0.182	38.45	-15.86
846.50	5	QPSK	1 / 0	25.49	-0.60	22.74	0.188	38.45	-15.71
836.50	5	16-QAM	1 / 24	24.73	-0.60	21.98	0.158	38.45	-16.47
836.50	5	64-QAM	1 / 0	23.69	-0.60	20.94	0.124	38.45	-17.51
829.00	10	QPSK	1 / 0	25.47	-0.60	22.72	0.187	38.45	-15.73
836.50	10	QPSK	1 / 25	25.44	-0.60	22.69	0.186	38.45	-15.76
844.00	10	QPSK	1 / 0	25.47	-0.60	22.72	0.187	38.45	-15.73
836.50	10	16-QAM	1 / 25	24.73	-0.60	21.98	0.158	38.45	-16.47
836.50	10	64-QAM	1 / 25	23.91	-0.60	21.16	0.131	38.45	-17.29
844.00	10	64-QAM	1 / 0	23.92	-0.60	21.17	0.131	38.45	-17.28

Table 7-24. ERP Data (Band 26)

FCC ID: BCGA2013	 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]
1710.70	1.4	QPSK	1 / 5	25.50	-2.00	23.50	0.224	30.00	-6.50
1732.50	1.4	QPSK	3 / 3	25.45	-2.00	23.45	0.221	30.00	-6.55
1754.30	1.4	QPSK	3 / 2	25.41	-2.00	23.41	0.219	30.00	-6.59
1754.30	1.4	16-QAM	1 / 0	24.79	-2.00	22.79	0.190	30.00	-7.21
1754.30	1.4	64-QAM	1 / 2	23.90	-2.00	21.90	0.155	30.00	-8.10
1711.50	3	QPSK	1 / 7	25.50	-2.00	23.50	0.224	30.00	-6.50
1732.50	3	QPSK	1 / 7	25.33	-2.00	23.33	0.216	30.00	-6.67
1753.50	3	QPSK	1 / 7	25.13	-2.00	23.13	0.206	30.00	-6.87
1711.50	3	16-QAM	1 / 7	24.69	-2.00	22.69	0.186	30.00	-7.31
1711.50	3	64-QAM	1 / 14	23.82	-2.00	21.82	0.152	30.00	-8.18
1712.50	5	QPSK	1 / 24	25.50	-2.00	23.50	0.224	30.00	-6.50
1732.50	5	QPSK	1 / 24	25.42	-2.00	23.42	0.220	30.00	-6.58
1752.50	5	QPSK	1 / 24	25.44	-2.00	23.44	0.221	30.00	-6.56
1752.50	5	16-QAM	1 / 0	24.61	-2.00	22.61	0.182	30.00	-7.39
1752.50	5	64-QAM	1 / 0	23.92	-2.00	21.92	0.156	30.00	-8.08
1715.00	10	QPSK	1 / 49	25.48	-2.00	23.48	0.223	30.00	-6.52
1732.50	10	QPSK	1 / 25	25.47	-2.00	23.47	0.222	30.00	-6.53
1750.00	10	QPSK	1 / 0	25.50	-2.00	23.50	0.224	30.00	-6.50
1750.00	10	16-QAM	1 / 0	24.76	-2.00	22.76	0.189	30.00	-7.24
1750.00	10	64-QAM	1 / 0	23.92	-2.00	21.92	0.156	30.00	-8.08
1717.50	15	QPSK	1 / 36	25.42	-2.00	23.42	0.220	30.00	-6.58
1732.50	15	QPSK	1 / 36	25.50	-2.00	23.50	0.224	30.00	-6.50
1747.50	15	QPSK	1 / 0	25.50	-2.00	23.50	0.224	30.00	-6.50
1717.50	15	16-QAM	1 / 36	24.61	-2.00	22.61	0.182	30.00	-7.39
1717.50	15	64-QAM	1 / 74	24.13	-2.00	22.13	0.163	30.00	-7.87
1720.00	20	QPSK	1 / 0	25.45	-2.00	23.45	0.221	30.00	-6.55
1732.50	20	QPSK	1 / 99	25.50	-2.00	23.50	0.224	30.00	-6.50
1745.00	20	QPSK	1 / 0	25.42	-2.00	23.42	0.220	30.00	-6.58
1720.00	20	16-QAM	1 / 50	24.78	-2.00	22.78	0.190	30.00	-7.22
1720.00	20	64-QAM	1 / 99	24.21	-2.00	22.21	0.166	30.00	-7.79

Table 7-25. EIRP Data (Band 4)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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]
1710.70	1.4	QPSK	3 / 2	25.45	-2.00	23.45	0.221	30.00	-6.55
1745.00	1.4	QPSK	3 / 3	25.48	-2.00	23.48	0.223	30.00	-6.52
1779.30	1.4	QPSK	3 / 2	25.50	-2.00	23.50	0.224	30.00	-6.50
1710.70	1.4	16-QAM	1 / 0	24.77	-2.00	22.77	0.189	30.00	-7.23
1710.70	1.4	64-QAM	1 / 5	23.97	-2.00	21.97	0.157	30.00	-8.03
1711.50	3	QPSK	1 / 7	25.50	-2.00	23.50	0.224	30.00	-6.50
1745.00	3	QPSK	1 / 7	25.29	-2.00	23.29	0.213	30.00	-6.71
1778.50	3	QPSK	1 / 7	25.31	-2.00	23.31	0.214	30.00	-6.69
1711.50	3	16-QAM	1 / 0	24.71	-2.00	22.71	0.187	30.00	-7.29
1711.50	3	64-QAM	1 / 7	23.79	-2.00	21.79	0.151	30.00	-8.21
1712.50	5	QPSK	1 / 24	25.39	-2.00	23.39	0.218	30.00	-6.61
1745.00	5	QPSK	1 / 0	25.30	-2.00	23.30	0.214	30.00	-6.70
1777.50	5	QPSK	1 / 24	25.50	-2.00	23.50	0.224	30.00	-6.50
1712.50	5	16-QAM	1 / 12	24.51	-2.00	22.51	0.178	30.00	-7.49
1712.50	5	64-QAM	1 / 24	23.99	-2.00	21.99	0.158	30.00	-8.01
1715.00	10	QPSK	1 / 0	25.39	-2.00	23.39	0.219	30.00	-6.61
1745.00	10	QPSK	1 / 49	25.48	-2.00	23.48	0.223	30.00	-6.52
1775.00	10	QPSK	1 / 49	25.50	-2.00	23.50	0.224	30.00	-6.50
1715.00	10	16-QAM	1 / 49	24.65	-2.00	22.65	0.184	30.00	-7.35
1715.00	10	64-QAM	1 / 49	23.94	-2.00	21.94	0.156	30.00	-8.06
1717.50	15	QPSK	1 / 74	25.45	-2.00	23.45	0.221	30.00	-6.55
1745.00	15	QPSK	1 / 0	25.50	-2.00	23.50	0.224	30.00	-6.50
1772.50	15	QPSK	1 / 74	25.50	-2.00	23.50	0.224	30.00	-6.50
1717.50	15	16-QAM	1 / 74	24.58	-2.00	22.58	0.181	30.00	-7.42
1717.50	15	64-QAM	1 / 74	24.04	-2.00	22.04	0.160	30.00	-7.96
1720.00	20	QPSK	1 / 99	25.47	-2.00	23.47	0.222	30.00	-6.53
1745.00	20	QPSK	1 / 0	25.50	-2.00	23.50	0.224	30.00	-6.50
1770.00	20	QPSK	1 / 50	25.42	-2.00	23.42	0.220	30.00	-6.58
1720.00	20	16-QAM	1 / 99	24.40	-2.00	22.40	0.174	30.00	-7.60
1720.00	20	64-QAM	1 / 99	23.94	-2.00	21.94	0.156	30.00	-8.06

Table 7-26. EIRP Data (Band 66)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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]
1850.70	1.4	QPSK	1 / 5	25.36	-2.10	23.26	0.212	33.01	-9.75
1880.00	1.4	QPSK	3 / 0	25.53	-2.10	23.43	0.220	33.01	-9.58
1909.30	1.4	QPSK	3 / 3	25.39	-2.10	23.29	0.213	33.01	-9.72
1909.30	1.4	16-QAM	1 / 0	24.86	-2.10	22.76	0.189	33.01	-10.25
1909.30	1.4	64-QAM	1 / 0	24.12	-2.10	22.02	0.159	33.01	-10.99
1851.50	3	QPSK	1 / 14	25.49	-2.10	23.39	0.218	33.01	-9.62
1880.00	3	QPSK	1 / 0	25.38	-2.10	23.28	0.213	33.01	-9.73
1908.50	3	QPSK	1 / 7	25.25	-2.10	23.15	0.207	33.01	-9.86
1851.50	3	16-QAM	1 / 14	24.67	-2.10	22.57	0.181	33.01	-10.44
1851.50	3	64-QAM	1 / 14	23.70	-2.10	21.60	0.145	33.01	-11.41
1852.50	5	QPSK	1 / 24	25.45	-2.10	23.35	0.216	33.01	-9.66
1880.00	5	QPSK	1 / 0	25.39	-2.10	23.29	0.213	33.01	-9.72
1907.50	5	QPSK	1 / 0	25.50	-2.10	23.40	0.219	33.01	-9.61
1907.50	5	16-QAM	1 / 0	24.72	-2.10	22.62	0.183	33.01	-10.39
1907.50	5	64-QAM	1 / 0	24.13	-2.10	22.03	0.160	33.01	-10.98
1855.00	10	QPSK	1 / 49	25.34	-2.10	23.24	0.211	33.01	-9.77
1880.00	10	QPSK	1 / 0	25.46	-2.10	23.36	0.217	33.01	-9.65
1905.00	10	QPSK	1 / 0	25.50	-2.10	23.40	0.219	33.01	-9.61
1905.00	10	16-QAM	1 / 0	24.80	-2.10	22.70	0.186	33.01	-10.31
1905.00	10	64-QAM	1 / 49	24.18	-2.10	22.08	0.161	33.01	-10.93
1857.50	15	QPSK	1 / 36	25.40	-2.10	23.30	0.214	33.01	-9.71
1880.00	15	QPSK	1 / 0	25.49	-2.10	23.39	0.218	33.01	-9.62
1902.50	15	QPSK	1 / 36	25.50	-2.10	23.40	0.219	33.01	-9.61
1902.50	15	16-QAM	1 / 36	24.81	-2.10	22.71	0.187	33.01	-10.30
1902.50	15	64-QAM	1 / 74	24.02	-2.10	21.92	0.156	33.01	-11.09
1860.00	20	QPSK	1 / 99	25.27	-2.10	23.17	0.207	33.01	-9.84
1880.00	20	QPSK	1 / 0	25.50	-2.10	23.40	0.219	33.01	-9.61
1900.00	20	QPSK	1 / 50	25.49	-2.10	23.39	0.218	33.01	-9.62
1900.00	20	16-QAM	1 / 50	24.78	-2.10	22.68	0.186	33.01	-10.33
1900.00	20	64-QAM	1 / 99	24.22	-2.10	22.12	0.163	33.01	-10.89

Table 7-27. EIRP Data (Band 2)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 276 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	3 / 0	25.42	-2.10	23.32	0.215	33.01	-9.69
1882.50	1.4	QPSK	3 / 2	25.40	-2.10	23.30	0.214	33.01	-9.71
1914.30	1.4	QPSK	3 / 0	25.15	-2.10	23.05	0.202	33.01	-9.96
1850.70	1.4	16-QAM	1 / 5	24.78	-2.10	22.68	0.185	33.01	-10.33
1850.70	1.4	64-QAM	1 / 0	23.89	-2.10	21.79	0.151	33.01	-11.22
1851.50	3	QPSK	1 / 7	25.41	-2.10	23.31	0.214	33.01	-9.70
1882.50	3	QPSK	1 / 7	25.29	-2.10	23.19	0.209	33.01	-9.82
1913.50	3	QPSK	1 / 0	25.20	-2.10	23.10	0.204	33.01	-9.91
1851.50	3	16-QAM	1 / 14	24.65	-2.10	22.55	0.180	33.01	-10.46
1851.50	3	64-QAM	1 / 14	23.80	-2.10	21.70	0.148	33.01	-11.31
1852.50	5	QPSK	1 / 0	25.33	-2.10	23.23	0.210	33.01	-9.78
1882.50	5	QPSK	1 / 24	25.23	-2.10	23.13	0.206	33.01	-9.88
1912.50	5	QPSK	1 / 0	25.50	-2.10	23.40	0.219	33.01	-9.61
1912.50	5	16-QAM	1 / 0	24.66	-2.10	22.56	0.180	33.01	-10.45
1912.50	5	64-QAM	1 / 0	24.24	-2.10	22.14	0.164	33.01	-10.87
1855.00	10	QPSK	1 / 49	25.38	-2.10	23.28	0.213	33.01	-9.73
1882.50	10	QPSK	1 / 0	25.50	-2.10	23.40	0.219	33.01	-9.61
1910.00	10	QPSK	1 / 0	25.42	-2.10	23.32	0.215	33.01	-9.69
1910.00	10	16-QAM	1 / 25	24.84	-2.10	22.74	0.188	33.01	-10.28
1910.00	10	64-QAM	1 / 0	24.07	-2.10	21.97	0.157	33.01	-11.04
1857.50	15	QPSK	1 / 0	25.40	-2.10	23.30	0.214	33.01	-9.71
1882.50	15	QPSK	1 / 0	25.50	-2.10	23.40	0.219	33.01	-9.61
1907.50	15	QPSK	1 / 0	25.40	-2.10	23.30	0.214	33.01	-9.71
1907.50	15	16-QAM	1 / 0	24.80	-2.10	22.70	0.186	33.01	-10.31
1907.50	15	64-QAM	1 / 36	24.06	-2.10	21.96	0.157	33.01	-11.05
1860.00	20	QPSK	1 / 0	25.20	-2.10	23.10	0.204	33.01	-9.91
1882.50	20	QPSK	1 / 99	25.48	-2.10	23.38	0.218	33.01	-9.63
1905.00	20	QPSK	1 / 0	25.50	-2.10	23.40	0.219	33.01	-9.61
1905.00	20	16-QAM	1 / 0	24.86	-2.10	22.76	0.189	33.01	-10.25
1905.00	20	64-QAM	1 / 0	24.18	-2.10	22.08	0.161	33.01	-10.93

Table 7-28. EIRP Data (Band 25)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 277 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	23.47	-2.40	21.07	0.128	23.98	-2.91
2310.00	5	QPSK	1 / 0	23.32	-2.40	20.92	0.124	23.98	-3.06
2312.50	5	QPSK	1 / 24	23.50	-2.40	21.10	0.129	23.98	-2.88
2312.50	5	16-QAM	1 / 24	22.87	-2.40	20.47	0.111	23.98	-3.51
2312.50	5	64-QAM	1 / 24	21.54	-2.40	19.14	0.082	23.98	-4.84
2310.00	10	QPSK	1 / 49	23.50	-2.40	21.10	0.129	23.98	-2.88
2310.00	10	16-QAM	1 / 49	22.55	-2.40	20.15	0.104	23.98	-3.83
2310.00	10	64-QAM	1 / 49	21.42	-2.40	19.02	0.080	23.98	-4.96

Table 7-29. EIRP Data (Band 30)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 278 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 / 0	25.50	-1.90	23.60	0.229	33.01	-9.41
2535.00	5	QPSK	1 / 24	25.35	-1.90	23.45	0.221	33.01	-9.56
2567.50	5	QPSK	1 / 24	25.28	-1.90	23.38	0.218	33.01	-9.63
2502.50	5	16-QAM	1 / 0	24.70	-1.90	22.80	0.190	33.01	-10.21
2502.50	5	64-QAM	1 / 24	24.06	-1.90	22.16	0.164	33.01	-10.85
2505.00	10	QPSK	1 / 25	25.50	-1.90	23.60	0.229	33.01	-9.41
2535.00	10	QPSK	1 / 0	25.47	-1.90	23.57	0.227	33.01	-9.44
2565.00	10	QPSK	1 / 0	25.37	-1.90	23.47	0.222	33.01	-9.54
2505.00	10	16-QAM	1 / 25	24.79	-1.90	22.89	0.195	33.01	-10.12
2505.00	10	64-QAM	1 / 0	23.96	-1.90	22.06	0.161	33.01	-10.95
2507.50	15	QPSK	1 / 36	25.46	-1.90	23.56	0.227	33.01	-9.45
2535.00	15	QPSK	1 / 36	25.46	-1.90	23.56	0.227	33.01	-9.45
2562.50	15	QPSK	1 / 0	25.42	-1.90	23.52	0.225	33.01	-9.49
2562.50	15	16-QAM	1 / 36	24.67	-1.90	22.77	0.189	33.01	-10.24
2562.50	15	64-QAM	1 / 0	23.80	-1.90	21.90	0.155	33.01	-11.11
2510.00	20	QPSK	1 / 0	25.42	-1.90	23.52	0.225	33.01	-9.49
2535.00	20	QPSK	1 / 50	25.50	-1.90	23.60	0.229	33.01	-9.41
2560.00	20	QPSK	1 / 0	25.49	-1.90	23.59	0.228	33.01	-9.42
2560.00	20	16-QAM	1 / 50	24.76	-1.90	22.86	0.193	33.01	-10.15
2560.00	20	64-QAM	1 / 99	23.74	-1.90	21.84	0.153	33.01	-11.17

Table 7-30. EIRP Data (Band 7)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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]
2498.50	5	QPSK	1 / 24	26.98	-1.90	25.08	0.322	33.01	-7.93
2593.00	5	QPSK	1 / 24	26.73	-1.90	24.83	0.304	33.01	-8.18
2687.50	5	QPSK	1 / 0	27.00	-1.90	25.10	0.324	33.01	-7.91
2687.50	5	16-QAM	1 / 0	26.24	-1.90	24.34	0.272	33.01	-8.67
2687.50	5	64-QAM	1 / 24	24.76	-1.90	22.86	0.193	33.01	-10.15
2501.00	10	QPSK	1 / 49	27.00	-1.90	25.10	0.324	33.01	-7.91
2593.00	10	QPSK	1 / 49	26.71	-1.90	24.81	0.303	33.01	-8.20
2685.00	10	QPSK	1 / 0	26.88	-1.90	24.98	0.315	33.01	-8.03
2593.00	10	16-QAM	1 / 49	26.13	-1.90	24.23	0.265	33.01	-8.78
2593.00	10	64-QAM	1 / 49	24.80	-1.90	22.90	0.195	33.01	-10.11
2503.50	15	QPSK	1 / 0	27.00	-1.90	25.10	0.324	33.01	-7.91
2593.00	15	QPSK	1 / 74	26.69	-1.90	24.79	0.302	33.01	-8.22
2682.50	15	QPSK	1 / 36	26.92	-1.90	25.02	0.318	33.01	-7.99
2507.50	15	16-QAM	1 / 0	26.62	-1.90	24.72	0.296	33.01	-8.29
2507.50	15	64-QAM	1 / 36	24.80	-1.90	22.90	0.195	33.01	-10.11
2506.00	20	QPSK	1 / 0	27.00	-1.90	25.10	0.324	33.01	-7.91
2593.00	20	QPSK	1 / 99	26.82	-1.90	24.92	0.311	33.01	-8.09
2680.00	20	QPSK	1 / 99	26.87	-1.90	24.97	0.314	33.01	-8.04
2510.00	20	16-QAM	1 / 50	26.49	-1.90	24.59	0.288	33.01	-8.42
2510.00	20	64-QAM	1 / 99	24.89	-1.90	22.99	0.199	33.01	-10.02

Table 7-31. EIRP Data (Band 41)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 280 of 398

7.7.2 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]
665.50	5	QPSK	1 / 0	23.63	-4.70	16.78	0.048	34.77	-18.00
680.50	5	QPSK	1 / 0	23.33	-3.70	17.48	0.056	34.77	-17.29
695.50	5	QPSK	1 / 24	23.46	-6.80	14.51	0.028	34.77	-20.26
665.50	5	16-QAM	1 / 0	23.63	-4.70	16.78	0.048	34.77	-17.99
665.50	5	64-QAM	1 / 24	21.20	-4.70	14.35	0.027	34.77	-20.42
668.00	10	QPSK	1 / 0	23.38	-4.70	16.53	0.045	34.77	-18.25
680.50	10	QPSK	1 / 49	23.19	-3.70	17.34	0.054	34.77	-17.43
693.00	10	QPSK	1 / 49	23.30	-6.80	14.35	0.027	34.77	-20.42
680.50	10	16-QAM	1 / 0	22.89	-3.70	17.04	0.051	34.77	-17.73
680.50	10	64-QAM	1 / 0	21.23	-3.70	15.38	0.035	34.77	-19.39
670.50	15	QPSK	1 / 0	23.14	-4.70	16.29	0.043	34.77	-18.48
680.50	15	QPSK	1 / 36	23.11	-3.70	17.26	0.053	34.77	-17.51
690.50	15	QPSK	1 / 74	23.11	-6.80	14.16	0.026	34.77	-20.61
680.50	15	16-QAM	1 / 36	22.76	-3.70	16.91	0.049	34.77	-17.86
680.50	15	64-QAM	1 / 74	21.13	-3.70	15.28	0.034	34.77	-19.49
673.00	20	QPSK	1 / 0	23.07	-3.70	17.22	0.053	34.77	-17.55
680.50	20	QPSK	1 / 50	23.13	-3.70	17.28	0.053	34.77	-17.49
688.00	20	QPSK	1 / 99	23.19	-3.70	17.34	0.054	34.77	-17.43
688.00	20	16-QAM	1 / 99	23.04	-3.70	17.19	0.052	34.77	-17.58
688.00	20	64-QAM	1 / 0	21.10	-3.70	15.25	0.033	34.77	-19.52

Table 7-32. ERP Data (Band 71)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 281 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]
699.70	1.4	QPSK	1 / 5	23.53	-4.20	17.18	0.052	34.77	-17.59
707.50	1.4	QPSK	3 / 2	23.44	-4.20	17.09	0.051	34.77	-17.68
715.30	1.4	QPSK	3 / 3	23.38	-4.20	17.03	0.050	34.77	-17.74
715.30	1.4	16-QAM	1 / 5	22.79	-4.20	16.44	0.044	34.77	-18.33
715.30	1.4	64-QAM	1 / 2	22.08	-4.20	15.73	0.037	34.77	-19.04
700.50	3	QPSK	1 / 7	23.57	-4.20	17.22	0.053	34.77	-17.55
707.50	3	QPSK	1 / 7	23.62	-4.20	17.27	0.053	34.77	-17.50
714.50	3	QPSK	1 / 7	23.54	-4.20	17.19	0.052	34.77	-17.58
714.50	3	16-QAM	1 / 0	22.98	-4.20	16.63	0.046	34.77	-18.14
714.50	3	64-QAM	1 / 7	22.02	-4.20	15.67	0.037	34.77	-19.10
701.50	5	QPSK	1 / 0	23.63	-4.20	17.28	0.053	34.77	-17.50
707.50	5	QPSK	1 / 24	23.62	-4.20	17.27	0.053	34.77	-17.50
713.50	5	QPSK	1 / 0	23.75	-4.20	17.40	0.055	34.77	-17.37
713.50	5	16-QAM	1 / 12	22.80	-4.20	16.45	0.044	34.77	-18.32
713.50	5	64-QAM	1 / 24	22.16	-4.20	15.81	0.038	34.77	-18.96
704.00	10	QPSK	1 / 49	23.61	-4.20	17.26	0.053	34.77	-17.51
707.50	10	QPSK	1 / 25	23.46	-4.20	17.11	0.051	34.77	-17.66
711.00	10	QPSK	1 / 0	23.53	-4.20	17.18	0.052	34.77	-17.59
711.00	10	16-QAM	1 / 0	22.99	-4.20	16.64	0.046	34.77	-18.13
711.00	10	64-QAM	1 / 0	22.13	-4.20	15.78	0.038	34.77	-18.99

Table 7-33. ERP Data (Band 12)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 282 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]
706.50	5	QPSK	1 / 12	23.65	-4.20	17.30	0.054	34.77	-17.47
710.00	5	QPSK	1 / 12	23.62	-4.20	17.27	0.053	34.77	-17.50
713.50	5	QPSK	1 / 0	23.59	-4.20	17.24	0.053	34.77	-17.53
710.00	5	16-QAM	1 / 0	22.91	-4.20	16.56	0.045	34.77	-18.21
710.00	5	64-QAM	1 / 0	22.35	-4.20	16.00	0.040	34.77	-18.77
710.00	10	QPSK	1 / 25	23.64	-4.20	17.29	0.054	34.77	-17.48
710.00	10	16-QAM	1 / 0	22.89	-4.20	16.54	0.045	34.77	-18.23
710.00	10	64-QAM	1 / 25	22.17	-4.20	15.82	0.038	34.77	-18.95

Table 7-34. ERP Data (Band 17)

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	RB Size/Offset	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
779.50	5	QPSK	1 / 0	23.75	-4.20	17.40	0.055	34.77	-17.37
782.00	5	QPSK	1 / 0	23.50	-4.20	17.15	0.052	34.77	-17.63
784.50	5	QPSK	1 / 24	23.66	-4.20	17.31	0.054	34.77	-17.46
779.50	5	16-QAM	1 / 0	23.00	-4.20	16.65	0.046	34.77	-18.13
779.50	5	64-QAM	1 / 0	22.53	-4.20	16.18	0.041	34.77	-18.59
782.00	10	QPSK	1 / 25	23.64	-4.20	17.29	0.054	34.77	-17.48
782.00	10	16-QAM	1 / 0	22.89	-4.20	16.54	0.045	34.77	-18.23
782.00	10	64-QAM	1 / 25	22.17	-4.20	15.82	0.038	34.77	-18.95

Table 7-35. ERP Data (Band 13)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 283 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]
824.70	1.4	QPSK	1 / 2	23.70	-2.90	18.65	0.073	38.45	-19.80
836.50	1.4	QPSK	1 / 0	23.44	-2.90	18.39	0.069	38.45	-20.06
848.30	1.4	QPSK	3 / 3	23.48	-2.90	18.43	0.070	38.45	-20.02
848.30	1.4	16-QAM	1 / 0	22.68	-2.90	17.63	0.058	38.45	-20.82
848.30	1.4	64-QAM	1 / 0	22.23	-2.90	17.18	0.052	38.45	-21.27
825.50	3	QPSK	1 / 0	23.67	-2.90	18.62	0.073	38.45	-19.83
836.50	3	QPSK	1 / 14	23.43	-2.90	18.38	0.069	38.45	-20.08
847.50	3	QPSK	1 / 7	23.37	-2.90	18.32	0.068	38.45	-20.13
836.50	3	16-QAM	1 / 14	22.69	-2.90	17.64	0.058	38.45	-20.81
836.50	3	64-QAM	1 / 14	22.01	-2.90	16.96	0.050	38.45	-21.49
826.50	5	QPSK	1 / 0	23.75	-2.90	18.70	0.074	38.45	-19.75
836.50	5	QPSK	1 / 24	23.49	-2.90	18.44	0.070	38.45	-20.01
846.50	5	QPSK	1 / 0	23.42	-2.90	18.37	0.069	38.45	-20.08
836.50	5	16-QAM	1 / 0	22.68	-2.90	17.63	0.058	38.45	-20.82
836.50	5	64-QAM	1 / 24	22.32	-2.90	17.27	0.053	38.45	-21.18
829.00	10	QPSK	1 / 0	23.54	-2.90	18.49	0.071	38.45	-19.96
836.50	10	QPSK	1 / 49	23.49	-2.90	18.44	0.070	38.45	-20.01
844.00	10	QPSK	1 / 0	23.45	-2.90	18.40	0.069	38.45	-20.05
836.50	10	16-QAM	1 / 49	22.89	-2.90	17.84	0.061	38.45	-20.61
836.50	10	64-QAM	1 / 49	22.20	-2.90	17.15	0.052	38.45	-21.30

Table 7-36. ERP Data (Band 5)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 284 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]
824.70	1.4	QPSK	1 / 0	23.63	-2.90	18.58	0.072	38.45	-19.87
836.50	1.4	QPSK	1 / 3	23.55	-2.90	18.50	0.071	38.45	-19.95
848.30	1.4	QPSK	1 / 0	23.51	-2.90	18.46	0.070	38.45	-19.99
836.50	1.4	16-QAM	1 / 0	22.71	-2.90	17.66	0.058	38.45	-20.79
836.50	1.4	64-QAM	1 / 5	22.01	-2.90	16.96	0.050	38.45	-21.49
825.50	3	QPSK	1 / 7	23.46	-2.90	18.41	0.069	38.45	-20.04
836.50	3	QPSK	1 / 7	23.22	-2.90	18.17	0.066	38.45	-20.28
847.50	3	QPSK	1 / 7	23.22	-2.90	18.17	0.066	38.45	-20.28
847.50	3	16-QAM	1 / 7	22.95	-2.90	17.90	0.062	38.45	-20.55
847.50	3	64-QAM	1 / 7	22.14	-2.90	17.09	0.051	38.45	-21.36
826.50	5	QPSK	1 / 0	23.53	-2.90	18.48	0.071	38.45	-19.97
836.50	5	QPSK	1 / 24	23.20	-2.90	18.15	0.065	38.45	-20.30
846.50	5	QPSK	1 / 24	23.46	-2.90	18.41	0.069	38.45	-20.04
846.50	5	16-QAM	1 / 24	22.95	-2.90	17.90	0.062	38.45	-20.55
846.50	5	64-QAM	1 / 24	22.30	-2.90	17.25	0.053	38.45	-21.20
829.00	10	QPSK	1 / 49	23.66	-2.90	18.61	0.073	38.45	-19.84
836.50	10	QPSK	1 / 0	23.55	-2.90	18.50	0.071	38.45	-19.95
844.00	10	QPSK	1 / 0	23.52	-2.90	18.47	0.070	38.45	-19.98
836.50	10	16-QAM	1 / 25	22.95	-2.90	17.90	0.062	38.45	-20.55
836.50	10	64-QAM	1 / 49	22.06	-2.90	17.01	0.050	38.45	-21.44
844.00	10	64-QAM	1 / 49	22.17	-2.90	17.12	0.052	38.45	-21.33

Table 7-37. ERP Data (Band 26)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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	3 / 0	22.49	-2.00	20.49	0.112	30.00	-9.51
1732.50	1.4	QPSK	1 / 5	22.50	-2.00	20.50	0.112	30.00	-9.50
1754.30	1.4	QPSK	1 / 0	22.50	-2.00	20.50	0.112	30.00	-9.50
1754.30	1.4	16-QAM	1 / 5	21.96	-2.00	19.96	0.099	30.00	-10.04
1754.30	1.4	64-QAM	1 / 0	20.91	-2.00	18.91	0.078	30.00	-11.09
1711.50	3	QPSK	1 / 7	22.50	-2.00	20.50	0.112	30.00	-9.50
1732.50	3	QPSK	1 / 7	22.47	-2.00	20.47	0.112	30.00	-9.53
1753.50	3	QPSK	1 / 7	22.50	-2.00	20.50	0.112	30.00	-9.50
1753.50	3	16-QAM	1 / 7	22.00	-2.00	20.00	0.100	30.00	-10.00
1753.50	3	64-QAM	1 / 7	20.83	-2.00	18.83	0.076	30.00	-11.17
1712.50	5	QPSK	1 / 24	22.50	-2.00	20.50	0.112	30.00	-9.50
1732.50	5	QPSK	1 / 24	22.45	-2.00	20.45	0.111	30.00	-9.55
1752.50	5	QPSK	1 / 0	22.50	-2.00	20.50	0.112	30.00	-9.50
1752.50	5	16-QAM	1 / 24	21.74	-2.00	19.74	0.094	30.00	-10.26
1752.50	5	64-QAM	1 / 12	20.94	-2.00	18.94	0.078	30.00	-11.06
1715.00	10	QPSK	1 / 49	22.42	-2.00	20.42	0.110	30.00	-9.58
1732.50	10	QPSK	1 / 49	22.50	-2.00	20.50	0.112	30.00	-9.50
1750.00	10	QPSK	1 / 25	22.49	-2.00	20.49	0.112	30.00	-9.51
1750.00	10	16-QAM	1 / 0	21.81	-2.00	19.81	0.096	30.00	-10.19
1750.00	10	64-QAM	1 / 25	20.94	-2.00	18.94	0.078	30.00	-11.06
1717.50	15	QPSK	1 / 0	22.40	-2.00	20.40	0.110	30.00	-9.60
1732.50	15	QPSK	1 / 74	22.45	-2.00	20.45	0.111	30.00	-9.55
1747.50	15	QPSK	1 / 0	22.50	-2.00	20.50	0.112	30.00	-9.50
1747.50	15	16-QAM	1 / 0	21.83	-2.00	19.83	0.096	30.00	-10.17
1747.50	15	64-QAM	1 / 0	20.88	-2.00	18.88	0.077	30.00	-11.12
1720.00	20	QPSK	1 / 0	22.38	-2.00	20.38	0.109	30.00	-9.62
1732.50	20	QPSK	1 / 99	22.50	-2.00	20.50	0.112	30.00	-9.50
1745.00	20	QPSK	1 / 99	22.44	-2.00	20.44	0.111	30.00	-9.56
1745.00	20	16-QAM	1 / 99	21.84	-2.00	19.84	0.096	30.00	-10.16
1745.00	20	64-QAM	1 / 99	21.08	-2.00	19.08	0.081	30.00	-10.92

Table 7-38. EIRP Data (Band 4)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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]
1710.70	1.4	QPSK	1 / 5	22.50	-2.00	20.50	0.112	30.00	-9.50
1745.00	1.4	QPSK	3 / 3	22.44	-2.00	20.44	0.111	30.00	-9.56
1779.30	1.4	QPSK	3 / 0	22.49	-2.00	20.49	0.112	30.00	-9.51
1710.70	1.4	16-QAM	1 / 5	21.93	-2.00	19.93	0.098	30.00	-10.07
1710.70	1.4	64-QAM	1 / 5	20.78	-2.00	18.78	0.076	30.00	-11.22
1711.50	3	QPSK	1 / 7	22.50	-2.00	20.50	0.112	30.00	-9.50
1745.00	3	QPSK	1 / 7	22.50	-2.00	20.50	0.112	30.00	-9.50
1778.50	3	QPSK	1 / 7	22.50	-2.00	20.50	0.112	30.00	-9.50
1711.50	3	16-QAM	1 / 7	21.81	-2.00	19.81	0.096	30.00	-10.19
1711.50	3	64-QAM	1 / 7	20.75	-2.00	18.75	0.075	30.00	-11.25
1712.50	5	QPSK	1 / 24	22.50	-2.00	20.50	0.112	30.00	-9.50
1745.00	5	QPSK	1 / 0	22.48	-2.00	20.48	0.112	30.00	-9.52
1777.50	5	QPSK	1 / 24	22.45	-2.00	20.45	0.111	30.00	-9.55
1712.50	5	16-QAM	1 / 24	21.93	-2.00	19.93	0.098	30.00	-10.07
1712.50	5	64-QAM	1 / 0	20.90	-2.00	18.90	0.078	30.00	-11.10
1715.00	10	QPSK	1 / 49	22.45	-2.00	20.45	0.111	30.00	-9.55
1745.00	10	QPSK	1 / 49	22.46	-2.00	20.46	0.111	30.00	-9.54
1775.00	10	QPSK	1 / 0	22.50	-2.00	20.50	0.112	30.00	-9.50
1715.00	10	16-QAM	1 / 0	21.86	-2.00	19.86	0.097	30.00	-10.14
1715.00	10	64-QAM	1 / 49	20.87	-2.00	18.87	0.077	30.00	-11.13
1717.50	15	QPSK	1 / 0	22.43	-2.00	20.43	0.110	30.00	-9.57
1745.00	15	QPSK	1 / 0	22.50	-2.00	20.50	0.112	30.00	-9.50
1772.50	15	QPSK	1 / 0	22.46	-2.00	20.46	0.111	30.00	-9.54
1717.50	15	16-QAM	1 / 36	21.85	-2.00	19.85	0.097	30.00	-10.15
1717.50	15	64-QAM	1 / 74	20.92	-2.00	18.92	0.078	30.00	-11.08
1720.00	20	QPSK	1 / 99	22.47	-2.00	20.47	0.111	30.00	-9.53
1745.00	20	QPSK	1 / 99	22.50	-2.00	20.50	0.112	30.00	-9.50
1770.00	20	QPSK	1 / 99	22.46	-2.00	20.46	0.111	30.00	-9.54
1720.00	20	16-QAM	1 / 99	22.11	-2.00	20.11	0.103	30.00	-9.89
1720.00	20	64-QAM	1 / 99	20.84	-2.00	18.84	0.077	30.00	-11.16

Table 7-39. EIRP Data (Band 66)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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	22.45	-2.10	20.35	0.108	33.01	-12.66
1880.00	1.4	QPSK	1 / 0	22.42	-2.10	20.32	0.108	33.01	-12.69
1909.30	1.4	QPSK	1 / 5	22.50	-2.10	20.40	0.110	33.01	-12.61
1850.70	1.4	16-QAM	1 / 5	22.09	-2.10	19.99	0.100	33.01	-13.02
1850.70	1.4	64-QAM	1 / 2	21.12	-2.10	19.02	0.080	33.01	-13.99
1851.50	3	QPSK	1 / 7	22.50	-2.10	20.40	0.110	33.01	-12.61
1880.00	3	QPSK	1 / 7	22.50	-2.10	20.40	0.110	33.01	-12.61
1908.50	3	QPSK	1 / 14	22.47	-2.10	20.37	0.109	33.01	-12.64
1851.50	3	16-QAM	1 / 7	22.01	-2.10	19.91	0.098	33.01	-13.10
1851.50	3	64-QAM	1 / 7	21.10	-2.10	19.00	0.079	33.01	-14.01
1852.50	5	QPSK	1 / 0	22.43	-2.10	20.33	0.108	33.01	-12.68
1880.00	5	QPSK	1 / 0	22.46	-2.10	20.36	0.109	33.01	-12.65
1907.50	5	QPSK	1 / 24	22.47	-2.10	20.37	0.109	33.01	-12.64
1907.50	5	16-QAM	1 / 24	22.01	-2.10	19.91	0.098	33.01	-13.10
1907.50	5	64-QAM	1 / 0	21.00	-2.10	18.90	0.078	33.01	-14.11
1855.00	10	QPSK	1 / 0	22.46	-2.10	20.36	0.109	33.01	-12.65
1880.00	10	QPSK	1 / 0	22.49	-2.10	20.39	0.109	33.01	-12.62
1905.00	10	QPSK	1 / 0	22.42	-2.10	20.32	0.108	33.01	-12.69
1905.00	10	16-QAM	1 / 25	21.97	-2.10	19.87	0.097	33.01	-13.14
1905.00	10	64-QAM	1 / 25	20.94	-2.10	18.84	0.077	33.01	-14.17
1857.50	15	QPSK	1 / 0	22.48	-2.10	20.38	0.109	33.01	-12.63
1880.00	15	QPSK	1 / 0	22.45	-2.10	20.35	0.108	33.01	-12.66
1902.50	15	QPSK	1 / 0	22.44	-2.10	20.34	0.108	33.01	-12.67
1857.50	15	16-QAM	1 / 74	22.06	-2.10	19.96	0.099	33.01	-13.05
1857.50	15	64-QAM	1 / 0	21.13	-2.10	19.03	0.080	33.01	-13.98
1860.00	20	QPSK	1 / 0	22.44	-2.10	20.34	0.108	33.01	-12.67
1880.00	20	QPSK	1 / 0	22.43	-2.10	20.33	0.108	33.01	-12.68
1900.00	20	QPSK	1 / 0	22.50	-2.10	20.40	0.110	33.01	-12.61
1900.00	20	16-QAM	1 / 0	22.01	-2.10	19.91	0.098	33.01	-13.10
1900.00	20	64-QAM	1 / 99	20.91	-2.10	18.81	0.076	33.01	-14.20

Table 7-40. EIRP Data (Band 2)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 288 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 / 0	22.50	-2.10	20.40	0.110	33.01	-12.61
1882.50	1.4	QPSK	3 / 3	22.10	-2.10	20.00	0.100	33.01	-13.01
1914.30	1.4	QPSK	1 / 0	21.99	-2.10	19.89	0.098	33.01	-13.12
1850.70	1.4	16-QAM	1 / 0	21.50	-2.10	19.40	0.087	33.01	-13.61
1850.70	1.4	64-QAM	1 / 5	21.14	-2.10	19.04	0.080	33.01	-13.97
1851.50	3	QPSK	1 / 7	22.27	-2.10	20.17	0.104	33.01	-12.84
1882.50	3	QPSK	1 / 7	21.94	-2.10	19.84	0.096	33.01	-13.17
1913.50	3	QPSK	1 / 0	21.96	-2.10	19.86	0.097	33.01	-13.15
1851.50	3	16-QAM	1 / 7	21.84	-2.10	19.74	0.094	33.01	-13.27
1851.50	3	64-QAM	1 / 7	21.09	-2.10	18.99	0.079	33.01	-14.02
1852.50	5	QPSK	1 / 0	22.49	-2.10	20.39	0.109	33.01	-12.62
1882.50	5	QPSK	1 / 24	22.12	-2.10	20.02	0.100	33.01	-12.99
1912.50	5	QPSK	1 / 0	22.35	-2.10	20.25	0.106	33.01	-12.76
1852.50	5	16-QAM	1 / 0	21.90	-2.10	19.80	0.096	33.01	-13.21
1852.50	5	64-QAM	1 / 24	21.18	-2.10	19.08	0.081	33.01	-13.93
1855.00	10	QPSK	1 / 0	22.36	-2.10	20.26	0.106	33.01	-12.75
1882.50	10	QPSK	1 / 0	22.23	-2.10	20.13	0.103	33.01	-12.88
1910.00	10	QPSK	1 / 25	22.16	-2.10	20.06	0.101	33.01	-12.95
1910.00	10	16-QAM	1 / 25	21.68	-2.10	19.58	0.091	33.01	-13.43
1910.00	10	64-QAM	1 / 0	20.90	-2.10	18.80	0.076	33.01	-14.21
1857.50	15	QPSK	1 / 0	22.34	-2.10	20.24	0.106	33.01	-12.77
1882.50	15	QPSK	1 / 36	22.16	-2.10	20.06	0.101	33.01	-12.95
1907.50	15	QPSK	1 / 0	22.08	-2.10	19.98	0.100	33.01	-13.03
1857.50	15	16-QAM	1 / 0	21.88	-2.10	19.78	0.095	33.01	-13.23
1857.50	15	64-QAM	1 / 0	21.14	-2.10	19.04	0.080	33.01	-13.97
1860.00	20	QPSK	1 / 0	22.23	-2.10	20.13	0.103	33.01	-12.88
1882.50	20	QPSK	1 / 0	22.28	-2.10	20.18	0.104	33.01	-12.83
1905.00	20	QPSK	1 / 0	22.22	-2.10	20.12	0.103	33.01	-12.89
1905.00	20	16-QAM	1 / 0	21.77	-2.10	19.67	0.093	33.01	-13.34
1905.00	20	64-QAM	1 / 0	20.86	-2.10	18.76	0.075	33.01	-14.25

Table 7-41. EIRP Data (Band 25)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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]
2307.50	5	QPSK	1 / 99	22.12	-2.40	19.72	0.094	23.98	-4.26
2310.00	5	QPSK	1 / 99	22.25	-2.40	19.85	0.097	23.98	-4.13
2312.50	5	QPSK	1 / 50	22.18	-2.40	19.78	0.095	23.98	-4.20
2310.00	5	16-QAM	1 / 99	21.64	-2.40	19.24	0.084	23.98	-4.74
2310.00	5	64-QAM	1 / 99	21.01	-2.40	18.61	0.073	23.98	-5.37
2310.00	10	QPSK	1 / 49	22.23	-2.40	19.83	0.096	23.98	-4.15
2310.00	10	16-QAM	1 / 0	21.54	-2.40	19.14	0.082	23.98	-4.84
2310.00	10	64-QAM	1 / 49	20.73	-2.40	18.33	0.068	23.98	-5.65

Table 7-42. EIRP Data (Band 30)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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]
2502.50	5	QPSK	1 / 0	22.25	-1.90	20.35	0.108	33.01	-12.66
2535.00	5	QPSK	1 / 24	22.08	-1.90	20.18	0.104	33.01	-12.83
2567.50	5	QPSK	1 / 24	22.22	-1.90	20.32	0.108	33.01	-12.69
2567.50	5	16-QAM	1 / 12	21.36	-1.90	19.46	0.088	33.01	-13.55
2567.50	5	64-QAM	1 / 24	20.53	-1.90	18.63	0.073	33.01	-14.38
2505.00	10	QPSK	1 / 0	22.25	-1.90	20.35	0.108	33.01	-12.66
2535.00	10	QPSK	1 / 49	22.13	-1.90	20.23	0.105	33.01	-12.78
2565.00	10	QPSK	1 / 49	22.25	-1.90	20.35	0.108	33.01	-12.66
2565.00	10	16-QAM	1 / 49	21.59	-1.90	19.69	0.093	33.01	-13.32
2565.00	10	64-QAM	1 / 49	20.46	-1.90	18.56	0.072	33.01	-14.45
2507.50	15	QPSK	1 / 0	22.25	-1.90	20.35	0.108	33.01	-12.66
2535.00	15	QPSK	1 / 74	22.12	-1.90	20.22	0.105	33.01	-12.79
2562.50	15	QPSK	1 / 74	22.30	-1.90	20.40	0.110	33.01	-12.62
2562.50	15	16-QAM	1 / 74	21.64	-1.90	19.74	0.094	33.01	-13.28
2562.50	15	64-QAM	1 / 0	20.42	-1.90	18.52	0.071	33.01	-14.49
2510.00	20	QPSK	1 / 0	22.25	-1.90	20.35	0.108	33.01	-12.66
2535.00	20	QPSK	1 / 99	22.23	-1.90	20.33	0.108	33.01	-12.68
2560.00	20	QPSK	1 / 99	22.33	-1.90	20.43	0.111	33.01	-12.58
2560.00	20	16-QAM	1 / 99	21.77	-1.90	19.87	0.097	33.01	-13.14
2560.00	20	64-QAM	1 / 99	20.54	-1.90	18.64	0.073	33.01	-14.37

Table 7-43. EIRP Data (Band 7)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	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	23.75	-1.90	21.85	0.153	33.01	-11.16
2593.00	5	QPSK	1 / 0	23.73	-1.90	21.83	0.152	33.01	-11.18
2687.50	5	QPSK	1 / 24	23.67	-1.90	21.77	0.150	33.01	-11.24
2687.50	5	16-QAM	1 / 24	23.31	-1.90	21.41	0.138	33.01	-11.60
2687.50	5	64-QAM	1 / 24	22.02	-1.90	20.12	0.103	33.01	-12.89
2501.00	10	QPSK	1 / 49	23.73	-1.90	21.83	0.152	33.01	-11.18
2593.00	10	QPSK	1 / 0	23.58	-1.90	21.68	0.147	33.01	-11.33
2685.00	10	QPSK	1 / 49	23.64	-1.90	21.74	0.149	33.01	-11.27
2593.00	10	16-QAM	1 / 49	23.07	-1.90	21.17	0.131	33.01	-11.84
2593.00	10	64-QAM	1 / 49	22.21	-1.90	20.31	0.107	33.01	-12.70
2503.50	15	QPSK	1 / 74	23.74	-1.90	21.84	0.153	33.01	-11.17
2593.00	15	QPSK	1 / 0	23.53	-1.90	21.63	0.145	33.01	-11.38
2682.50	15	QPSK	1 / 74	23.67	-1.90	21.77	0.150	33.01	-11.24
2507.50	15	16-QAM	1 / 74	23.42	-1.90	21.52	0.142	33.01	-11.49
2507.50	15	64-QAM	1 / 36	22.51	-1.90	20.61	0.115	33.01	-12.40
2506.00	20	QPSK	1 / 50	23.69	-1.90	21.79	0.151	33.01	-11.22
2593.00	20	QPSK	1 / 0	23.57	-1.90	21.67	0.147	33.01	-11.34
2680.00	20	QPSK	1 / 0	23.56	-1.90	21.66	0.147	33.01	-11.35
2593.00	20	16-QAM	1 / 0	23.03	-1.90	21.13	0.130	33.01	-11.88
2593.00	20	64-QAM	1 / 99	22.08	-1.90	20.18	0.104	33.01	-12.83

Table 7-44. EIRP Data (Band 41)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.7.3 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	3 / 2	24.38	-2.40	21.98	0.158	30.00	-8.02
1732.50	1.4	QPSK	3 / 2	24.42	-2.40	22.02	0.159	30.00	-7.98
1754.30	1.4	QPSK	3 / 0	24.47	-2.50	21.97	0.157	30.00	-8.03
1732.50	1.4	16-QAM	1 / 5	23.92	-2.40	21.52	0.142	30.00	-8.48
1732.50	1.4	64-QAM	1 / 5	23.13	-2.40	20.73	0.118	30.00	-9.27
1711.50	3	QPSK	1 / 7	24.42	-2.40	22.02	0.159	30.00	-7.98
1732.50	3	QPSK	1 / 7	24.31	-2.40	21.91	0.155	30.00	-8.09
1753.50	3	QPSK	1 / 7	24.23	-2.50	21.73	0.149	30.00	-8.27
1711.50	3	16-QAM	1 / 14	23.65	-2.40	21.25	0.133	30.00	-8.75
1711.50	3	64-QAM	1 / 14	22.89	-2.40	20.49	0.112	30.00	-9.51
1712.50	5	QPSK	1 / 0	24.39	-2.40	21.99	0.158	30.00	-8.01
1732.50	5	QPSK	1 / 24	24.33	-2.40	21.93	0.156	30.00	-8.07
1752.50	5	QPSK	1 / 0	24.50	-2.50	22.00	0.158	30.00	-8.00
1752.50	5	16-QAM	1 / 24	23.73	-2.50	21.23	0.133	30.00	-8.77
1752.50	5	64-QAM	1 / 24	23.16	-2.50	20.66	0.116	30.00	-9.34
1715.00	10	QPSK	1 / 25	24.21	-2.40	21.81	0.152	30.00	-8.19
1732.50	10	QPSK	1 / 49	24.31	-2.40	21.91	0.155	30.00	-8.09
1750.00	10	QPSK	1 / 0	24.36	-2.50	21.86	0.153	30.00	-8.14
1732.50	10	16-QAM	1 / 49	23.67	-2.40	21.27	0.134	30.00	-8.73
1732.50	10	64-QAM	1 / 49	23.06	-2.40	20.66	0.116	30.00	-9.34
1717.50	15	QPSK	1 / 0	24.19	-2.40	21.79	0.151	30.00	-8.21
1732.50	15	QPSK	1 / 74	24.25	-2.40	21.85	0.153	30.00	-8.15
1747.50	15	QPSK	1 / 0	24.37	-2.50	21.87	0.154	30.00	-8.13
1747.50	15	16-QAM	1 / 0	23.61	-2.50	21.11	0.129	30.00	-8.89
1747.50	15	64-QAM	1 / 36	23.05	-2.50	20.55	0.114	30.00	-9.45
1720.00	20	QPSK	1 / 0	24.25	-2.40	21.85	0.153	30.00	-8.15
1732.50	20	QPSK	1 / 99	24.33	-2.40	21.93	0.156	30.00	-8.07
1745.00	20	QPSK	1 / 0	24.21	-2.50	21.71	0.148	30.00	-8.29
1732.50	20	16-QAM	1 / 99	23.71	-2.40	21.31	0.135	30.00	-8.69
1732.50	20	64-QAM	1 / 99	23.26	-2.40	20.86	0.122	30.00	-9.14

Table 7-45. EIRP Data (Band 4)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 293 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	3 / 0	24.50	-2.40	22.10	0.162	30.00	-7.90
1745.00	1.4	QPSK	3 / 2	24.47	-2.40	22.07	0.161	30.00	-7.93
1779.30	1.4	QPSK	3 / 3	24.48	-2.40	22.08	0.161	30.00	-7.92
1710.70	1.4	16-QAM	1 / 5	23.86	-2.40	21.46	0.140	30.00	-8.54
1710.70	1.4	64-QAM	1 / 5	22.22	-2.40	19.82	0.096	30.00	-10.18
1711.50	3	QPSK	1 / 0	24.48	-2.40	22.08	0.161	30.00	-7.92
1745.00	3	QPSK	1 / 7	24.41	-2.40	22.01	0.159	30.00	-7.99
1778.50	3	QPSK	1 / 0	24.31	-2.40	21.91	0.155	30.00	-8.09
1711.50	3	16-QAM	1 / 0	23.68	-2.40	21.28	0.134	30.00	-8.72
1711.50	3	64-QAM	1 / 14	22.09	-2.40	19.69	0.093	30.00	-10.31
1712.50	5	QPSK	1 / 0	24.80	-2.40	22.40	0.174	30.00	-7.60
1745.00	5	QPSK	1 / 0	24.43	-2.40	22.03	0.160	30.00	-7.97
1777.50	5	QPSK	1 / 0	24.47	-2.40	22.07	0.161	30.00	-7.93
1712.50	5	16-QAM	1 / 24	23.99	-2.40	21.59	0.144	30.00	-8.41
1712.50	5	64-QAM	1 / 24	22.40	-2.40	20.00	0.100	30.00	-10.00
1715.00	10	QPSK	1 / 25	24.37	-2.40	21.97	0.157	30.00	-8.03
1745.00	10	QPSK	1 / 0	24.47	-2.40	22.07	0.161	30.00	-7.93
1775.00	10	QPSK	1 / 0	24.48	-2.40	22.08	0.162	30.00	-7.92
1715.00	10	16-QAM	1 / 49	23.71	-2.40	21.31	0.135	30.00	-8.69
1715.00	10	64-QAM	1 / 49	22.33	-2.40	19.93	0.098	30.00	-10.07
1717.50	15	QPSK	1 / 36	24.35	-2.40	21.95	0.157	30.00	-8.05
1745.00	15	QPSK	1 / 36	24.46	-2.40	22.06	0.161	30.00	-7.94
1772.50	15	QPSK	1 / 0	24.50	-2.40	22.10	0.162	30.00	-7.90
1717.50	15	16-QAM	1 / 0	23.59	-2.40	21.19	0.132	30.00	-8.81
1717.50	15	64-QAM	1 / 74	22.25	-2.40	19.85	0.097	30.00	-10.15
1720.00	20	QPSK	1 / 0	24.36	-2.40	21.96	0.157	30.00	-8.04
1745.00	20	QPSK	1 / 0	24.50	-2.40	22.10	0.162	30.00	-7.90
1770.00	20	QPSK	1 / 0	24.42	-2.40	22.02	0.159	30.00	-7.98
1720.00	20	16-QAM	1 / 99	23.90	-2.40	21.50	0.141	30.00	-8.50
1720.00	20	64-QAM	1 / 99	22.53	-2.40	20.13	0.103	30.00	-9.87

Table 7-46. EIRP Data (Band 66)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 294 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	24.41	-1.80	22.61	0.182	33.01	-10.40
1880.00	1.4	QPSK	1 / 0	24.14	-1.80	22.34	0.171	33.01	-10.67
1909.30	1.4	QPSK	1 / 2	24.10	-1.80	22.30	0.170	33.01	-10.71
1850.70	1.4	16-QAM	1 / 5	23.75	-1.80	21.95	0.157	33.01	-11.06
1850.70	1.4	64-QAM	1 / 2	23.05	-1.80	21.25	0.133	33.01	-11.76
1851.50	3	QPSK	1 / 7	24.36	-1.80	22.56	0.180	33.01	-10.45
1880.00	3	QPSK	1 / 0	24.13	-1.80	22.33	0.171	33.01	-10.68
1908.50	3	QPSK	1 / 14	24.04	-1.80	22.24	0.167	33.01	-10.77
1851.50	3	16-QAM	1 / 14	23.64	-1.80	21.84	0.153	33.01	-11.17
1851.50	3	64-QAM	1 / 7	22.92	-1.80	21.12	0.129	33.01	-11.89
1852.50	5	QPSK	1 / 0	24.50	-1.80	22.70	0.186	33.01	-10.31
1880.00	5	QPSK	1 / 0	24.31	-1.80	22.51	0.178	33.01	-10.50
1907.50	5	QPSK	1 / 24	24.30	-1.80	22.50	0.178	33.01	-10.51
1907.50	5	16-QAM	1 / 0	23.76	-1.80	21.96	0.157	33.01	-11.05
1907.50	5	64-QAM	1 / 24	22.99	-1.80	21.19	0.132	33.01	-11.82
1855.00	10	QPSK	1 / 0	24.50	-1.80	22.70	0.186	33.01	-10.31
1880.00	10	QPSK	1 / 0	24.39	-1.80	22.59	0.182	33.01	-10.42
1905.00	10	QPSK	1 / 0	24.31	-1.80	22.51	0.178	33.01	-10.50
1905.00	10	16-QAM	1 / 49	23.62	-1.80	21.82	0.152	33.01	-11.19
1905.00	10	64-QAM	1 / 49	22.94	-1.80	21.14	0.130	33.01	-11.87
1857.50	15	QPSK	1 / 0	24.45	-1.80	22.65	0.184	33.01	-10.36
1880.00	15	QPSK	1 / 0	24.44	-1.80	22.64	0.184	33.01	-10.37
1902.50	15	QPSK	1 / 0	24.28	-1.80	22.48	0.177	33.01	-10.53
1902.50	15	16-QAM	1 / 0	23.76	-1.80	21.96	0.157	33.01	-11.05
1902.50	15	64-QAM	1 / 74	22.86	-1.80	21.06	0.128	33.01	-11.95
1860.00	20	QPSK	1 / 0	24.45	-1.80	22.65	0.184	33.01	-10.36
1880.00	20	QPSK	1 / 0	24.50	-1.80	22.70	0.186	33.01	-10.31
1900.00	20	QPSK	1 / 0	24.39	-1.80	22.59	0.182	33.01	-10.42
1900.00	20	16-QAM	1 / 0	23.76	-1.80	21.96	0.157	33.01	-11.05
1900.00	20	64-QAM	1 / 99	22.94	-1.80	21.14	0.130	33.01	-11.87

Table 7-47. EIRP Data (Band 2)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 295 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	24.40	-1.80	22.60	0.182	33.01	-10.41
1882.50	1.4	QPSK	3 / 2	24.12	-1.80	22.32	0.171	33.01	-10.69
1914.30	1.4	QPSK	1 / 0	24.02	-1.80	22.22	0.167	33.01	-10.79
1850.70	1.4	16-QAM	1 / 0	24.37	-1.80	22.57	0.181	33.01	-10.44
1850.70	1.4	64-QAM	1 / 0	22.55	-1.80	20.75	0.119	33.01	-12.26
1851.50	3	QPSK	1 / 7	24.31	-1.80	22.51	0.178	33.01	-10.50
1882.50	3	QPSK	1 / 7	24.11	-1.80	22.31	0.170	33.01	-10.70
1913.50	3	QPSK	1 / 0	24.06	-1.80	22.26	0.168	33.01	-10.75
1851.50	3	16-QAM	1 / 7	23.51	-1.80	21.71	0.148	33.01	-11.30
1851.50	3	64-QAM	1 / 7	22.44	-1.80	20.64	0.116	33.01	-12.37
1852.50	5	QPSK	1 / 0	24.50	-1.80	22.70	0.186	33.01	-10.31
1882.50	5	QPSK	1 / 0	24.23	-1.80	22.43	0.175	33.01	-10.58
1912.50	5	QPSK	1 / 0	24.36	-1.80	22.56	0.180	33.01	-10.45
1852.50	5	16-QAM	1 / 12	23.49	-1.80	21.69	0.148	33.01	-11.32
1852.50	5	64-QAM	1 / 24	22.65	-1.80	20.85	0.122	33.01	-12.16
1855.00	10	QPSK	1 / 0	24.47	-1.80	22.67	0.185	33.01	-10.34
1882.50	10	QPSK	1 / 0	24.38	-1.80	22.58	0.181	33.01	-10.43
1910.00	10	QPSK	1 / 0	24.20	-1.80	22.40	0.174	33.01	-10.61
1910.00	10	16-QAM	1 / 0	23.85	-1.80	22.05	0.160	33.01	-10.96
1910.00	10	64-QAM	1 / 25	22.40	-1.80	20.60	0.115	33.01	-12.41
1857.50	15	QPSK	1 / 0	24.46	-1.80	22.66	0.184	33.01	-10.35
1882.50	15	QPSK	1 / 0	24.38	-1.80	22.58	0.181	33.01	-10.43
1907.50	15	QPSK	1 / 0	24.22	-1.80	22.42	0.175	33.01	-10.59
1907.50	15	16-QAM	1 / 0	23.70	-1.80	21.90	0.155	33.01	-11.11
1907.50	15	64-QAM	1 / 36	22.41	-1.80	20.61	0.115	33.01	-12.40
1860.00	20	QPSK	1 / 0	24.44	-1.80	22.64	0.184	33.01	-10.37
1882.50	20	QPSK	1 / 0	24.50	-1.80	22.70	0.186	33.01	-10.31
1905.00	20	QPSK	1 / 0	24.37	-1.80	22.57	0.181	33.01	-10.44
1905.00	20	16-QAM	1 / 0	23.74	-1.80	21.94	0.156	33.01	-11.08
1905.00	20	64-QAM	1 / 0	22.48	-1.80	20.68	0.117	33.01	-12.33

Table 7-48. EIRP Data (Band 25)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 296 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	23.41	0.50	23.91	0.246	23.98	-0.07
2310.00	5	QPSK	1 / 24	23.41	0.50	23.91	0.246	23.98	-0.07
2312.50	5	QPSK	1 / 24	23.41	0.50	23.91	0.246	23.98	-0.07
2310.00	5	16-QAM	1 / 0	22.75	0.50	23.25	0.211	23.98	-0.73
2310.00	5	64-QAM	1 / 24	21.78	0.50	22.28	0.169	23.98	-1.70
2310.00	10	QPSK	1 / 49	23.44	0.50	23.94	0.248	23.98	-0.04
2310.00	10	16-QAM	1 / 49	22.67	0.50	23.17	0.208	23.98	-0.81
2310.00	10	64-QAM	1 / 49	21.68	0.50	22.18	0.165	23.98	-1.80

Table 7-49. EIRP Data (Band 30)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 297 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 / 0	24.00	0.00	24.00	0.251	33.01	-9.01
2535.00	5	QPSK	1 / 0	24.00	0.00	24.00	0.251	33.01	-9.01
2567.50	5	QPSK	1 / 12	23.98	0.00	23.98	0.250	33.01	-9.03
2567.50	5	16-QAM	1 / 12	23.65	0.00	23.65	0.232	33.01	-9.36
2567.50	5	64-QAM	1 / 24	22.67	0.00	22.67	0.185	33.01	-10.34
2505.00	10	QPSK	1 / 0	24.00	0.00	24.00	0.251	33.01	-9.01
2535.00	10	QPSK	1 / 49	23.97	0.00	23.97	0.249	33.01	-9.04
2565.00	10	QPSK	1 / 0	24.00	0.00	24.00	0.251	33.01	-9.01
2565.00	10	16-QAM	1 / 0	23.65	0.00	23.65	0.232	33.01	-9.36
2565.00	10	64-QAM	1 / 49	22.51	0.00	22.51	0.178	33.01	-10.50
2507.50	15	QPSK	1 / 0	24.00	0.00	24.00	0.251	33.01	-9.01
2535.00	15	QPSK	1 / 74	24.00	0.00	24.00	0.251	33.01	-9.01
2562.50	15	QPSK	1 / 74	24.00	0.00	24.00	0.251	33.01	-9.01
2562.50	15	16-QAM	1 / 0	23.69	0.00	23.69	0.234	33.01	-9.32
2562.50	15	64-QAM	1 / 74	22.54	0.00	22.54	0.179	33.01	-10.47
2510.00	20	QPSK	1 / 0	23.94	0.00	23.94	0.248	33.01	-9.07
2535.00	20	QPSK	1 / 99	24.00	0.00	24.00	0.251	33.01	-9.01
2560.00	20	QPSK	1 / 0	24.00	0.00	24.00	0.251	33.01	-9.01
2560.00	20	16-QAM	1 / 99	23.62	0.00	23.62	0.230	33.01	-9.39
2560.00	20	64-QAM	1 / 99	22.83	0.00	22.83	0.192	33.01	-10.18

Table 7-50. EIRP Data (Band 7)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 298 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	25.23	0.00	25.23	0.333	33.01	-7.78
2593.00	5	QPSK	1 / 0	25.20	0.00	25.20	0.331	33.01	-7.81
2687.50	5	QPSK	1 / 24	25.17	0.00	25.17	0.329	33.01	-7.84
2593.00	5	16-QAM	1 / 0	24.57	0.00	24.57	0.286	33.01	-8.44
2593.00	5	64-QAM	1 / 24	23.45	0.00	23.45	0.221	33.01	-9.56
2501.00	10	QPSK	1 / 49	25.24	0.00	25.24	0.334	33.01	-7.77
2593.00	10	QPSK	1 / 0	25.19	0.00	25.19	0.330	33.01	-7.82
2685.00	10	QPSK	1 / 0	24.94	0.00	24.94	0.312	33.01	-8.07
2593.00	10	16-QAM	1 / 0	24.65	0.00	24.65	0.292	33.01	-8.36
2593.00	10	64-QAM	1 / 0	23.51	0.00	23.51	0.224	33.01	-9.50
2503.50	15	QPSK	1 / 74	25.24	0.00	25.24	0.334	33.01	-7.77
2593.00	15	QPSK	1 / 0	25.16	0.00	25.16	0.328	33.01	-7.85
2682.50	15	QPSK	1 / 74	24.96	0.00	24.96	0.314	33.01	-8.05
2593.00	15	16-QAM	1 / 0	24.55	0.00	24.55	0.285	33.01	-8.46
2593.00	15	64-QAM	1 / 74	23.44	0.00	23.44	0.221	33.01	-9.57
2506.00	20	QPSK	1 / 99	25.25	0.00	25.25	0.335	33.01	-7.76
2593.00	20	QPSK	1 / 0	25.25	0.00	25.25	0.335	33.01	-7.76
2680.00	20	QPSK	1 / 0	24.89	0.00	24.89	0.308	33.01	-8.12
2593.00	20	16-QAM	1 / 0	24.61	0.00	24.61	0.289	33.01	-8.40
2593.00	20	64-QAM	1 / 99	23.51	0.00	23.51	0.224	33.01	-9.50

Table 7-51. EIRP Data (Band 41)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 299 of 398

7.7.4 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	22.00	-1.10	20.90	0.123	30.00	-9.10
1732.50	1.4	QPSK	1 / 0	21.98	-1.10	20.88	0.122	30.00	-9.12
1754.30	1.4	QPSK	1 / 5	21.96	-1.10	20.86	0.122	30.00	-9.14
1754.30	1.4	16-QAM	1 / 0	21.53	-1.10	20.43	0.110	30.00	-9.57
1754.30	1.4	64-QAM	1 / 5	20.70	-1.10	19.60	0.091	30.00	-10.40
1711.50	3	QPSK	1 / 7	21.95	-1.10	20.85	0.121	30.00	-9.15
1732.50	3	QPSK	1 / 7	21.94	-1.10	20.84	0.121	30.00	-9.16
1753.50	3	QPSK	1 / 7	21.93	-1.10	20.83	0.121	30.00	-9.17
1753.50	3	16-QAM	1 / 14	21.48	-1.10	20.38	0.109	30.00	-9.62
1753.50	3	64-QAM	1 / 14	20.60	-1.10	19.50	0.089	30.00	-10.50
1712.50	5	QPSK	1 / 0	21.88	-1.10	20.78	0.120	30.00	-9.22
1732.50	5	QPSK	1 / 24	21.85	-1.10	20.75	0.119	30.00	-9.25
1752.50	5	QPSK	1 / 0	21.99	-1.10	20.89	0.123	30.00	-9.11
1752.50	5	16-QAM	1 / 12	21.33	-1.10	20.23	0.105	30.00	-9.77
1752.50	5	64-QAM	1 / 24	20.65	-1.10	19.55	0.090	30.00	-10.45
1715.00	10	QPSK	1 / 0	22.00	-1.10	20.90	0.123	30.00	-9.10
1732.50	10	QPSK	1 / 49	22.00	-1.10	20.90	0.123	30.00	-9.10
1750.00	10	QPSK	1 / 49	22.00	-1.10	20.90	0.123	30.00	-9.10
1750.00	10	16-QAM	1 / 0	21.55	-1.10	20.45	0.111	30.00	-9.55
1750.00	10	64-QAM	1 / 49	20.67	-1.10	19.57	0.091	30.00	-10.43
1717.50	15	QPSK	1 / 74	21.92	-1.10	20.82	0.121	30.00	-9.18
1732.50	15	QPSK	1 / 74	22.00	-1.10	20.90	0.123	30.00	-9.10
1747.50	15	QPSK	1 / 0	22.00	-1.10	20.90	0.123	30.00	-9.10
1732.50	15	16-QAM	1 / 0	21.43	-1.10	20.33	0.108	30.00	-9.67
1732.50	15	64-QAM	1 / 74	20.72	-1.10	19.62	0.092	30.00	-10.38
1720.00	20	QPSK	1 / 99	21.76	-1.10	20.66	0.116	30.00	-9.34
1732.50	20	QPSK	1 / 99	21.97	-1.10	20.87	0.122	30.00	-9.13
1745.00	20	QPSK	1 / 0	21.89	-1.10	20.79	0.120	30.00	-9.21
1732.50	20	16-QAM	1 / 99	21.48	-1.10	20.38	0.109	30.00	-9.62
1732.50	20	64-QAM	1 / 99	20.82	-1.10	19.72	0.094	30.00	-10.28

Table 7-52. EIRP Data (Band 4)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 300 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 / 2	22.00	-1.10	20.90	0.123	30.00	-9.10
1745.00	1.4	QPSK	1 / 5	21.91	-1.10	20.81	0.120	30.00	-9.19
1779.30	1.4	QPSK	1 / 0	21.89	-1.10	20.79	0.120	30.00	-9.21
1779.30	1.4	16-QAM	1 / 0	21.56	-1.10	20.46	0.111	30.00	-9.54
1779.30	1.4	64-QAM	1 / 0	20.76	-1.10	19.66	0.092	30.00	-10.34
1711.50	3	QPSK	1 / 0	21.89	-1.10	20.79	0.120	30.00	-9.21
1745.00	3	QPSK	1 / 7	21.79	-1.10	20.69	0.117	30.00	-9.31
1778.50	3	QPSK	1 / 7	21.78	-1.10	20.68	0.117	30.00	-9.32
1778.50	3	16-QAM	1 / 0	21.48	-1.10	20.38	0.109	30.00	-9.62
1778.50	3	64-QAM	1 / 7	20.72	-1.10	19.62	0.092	30.00	-10.38
1712.50	5	QPSK	1 / 0	21.88	-1.10	20.78	0.120	30.00	-9.22
1745.00	5	QPSK	1 / 0	21.77	-1.10	20.67	0.117	30.00	-9.33
1777.50	5	QPSK	1 / 0	22.00	-1.10	20.90	0.123	30.00	-9.10
1777.50	5	16-QAM	1 / 24	21.33	-1.10	20.23	0.105	30.00	-9.77
1777.50	5	64-QAM	1 / 0	20.90	-1.10	19.80	0.095	30.00	-10.20
1715.00	10	QPSK	1 / 0	21.88	-1.10	20.78	0.120	30.00	-9.22
1745.00	10	QPSK	1 / 49	22.00	-1.10	20.90	0.123	30.00	-9.10
1775.00	10	QPSK	1 / 25	21.97	-1.10	20.87	0.122	30.00	-9.13
1775.00	10	16-QAM	1 / 0	21.43	-1.10	20.33	0.108	30.00	-9.67
1775.00	10	64-QAM	1 / 0	20.88	-1.10	19.78	0.095	30.00	-10.22
1717.50	15	QPSK	1 / 0	21.95	-1.10	20.85	0.122	30.00	-9.15
1745.00	15	QPSK	1 / 0	21.97	-1.10	20.87	0.122	30.00	-9.13
1772.50	15	QPSK	1 / 0	21.98	-1.10	20.88	0.123	30.00	-9.12
1772.50	15	16-QAM	1 / 0	21.42	-1.10	20.32	0.108	30.00	-9.68
1772.50	15	64-QAM	1 / 0	20.94	-1.10	19.84	0.096	30.00	-10.16
1720.00	20	QPSK	1 / 99	21.85	-1.10	20.75	0.119	30.00	-9.25
1745.00	20	QPSK	1 / 99	21.99	-1.10	20.89	0.123	30.00	-9.11
1770.00	20	QPSK	1 / 0	21.97	-1.10	20.87	0.122	30.00	-9.13
1770.00	20	16-QAM	1 / 99	21.50	-1.10	20.40	0.110	30.00	-9.60
1770.00	20	64-QAM	1 / 50	20.92	-1.10	19.82	0.096	30.00	-10.18

Table 7-53. EIRP Data (Band 66)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 301 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 / 2	21.99	0.00	21.99	0.158	33.01	-11.02
1880.00	1.4	QPSK	1 / 0	21.87	0.00	21.87	0.154	33.01	-11.14
1909.30	1.4	QPSK	1 / 0	21.86	0.00	21.86	0.154	33.01	-11.15
1909.30	1.4	16-QAM	1 / 5	21.44	0.00	21.44	0.139	33.01	-11.57
1909.30	1.4	64-QAM	1 / 2	20.92	0.00	20.92	0.124	33.01	-12.09
1851.50	3	QPSK	1 / 7	22.00	0.00	22.00	0.159	33.01	-11.01
1880.00	3	QPSK	1 / 7	21.88	0.00	21.88	0.154	33.01	-11.13
1908.50	3	QPSK	1 / 7	21.95	0.00	21.95	0.157	33.01	-11.06
1908.50	3	16-QAM	1 / 7	21.47	0.00	21.47	0.140	33.01	-11.54
1908.50	3	64-QAM	1 / 14	20.77	0.00	20.77	0.119	33.01	-12.24
1852.50	5	QPSK	1 / 24	22.00	0.00	22.00	0.158	33.01	-11.01
1880.00	5	QPSK	1 / 0	21.79	0.00	21.79	0.151	33.01	-11.22
1907.50	5	QPSK	1 / 24	22.00	0.00	22.00	0.158	33.01	-11.01
1907.50	5	16-QAM	1 / 0	21.31	0.00	21.31	0.135	33.01	-11.70
1907.50	5	64-QAM	1 / 24	20.80	0.00	20.80	0.120	33.01	-12.21
1855.00	10	QPSK	1 / 0	21.98	0.00	21.98	0.158	33.01	-11.03
1880.00	10	QPSK	1 / 0	21.92	0.00	21.92	0.155	33.01	-11.09
1905.00	10	QPSK	1 / 0	22.00	0.00	22.00	0.159	33.01	-11.01
1905.00	10	16-QAM	1 / 49	21.32	0.00	21.32	0.135	33.01	-11.69
1905.00	10	64-QAM	1 / 49	20.80	0.00	20.80	0.120	33.01	-12.21
1857.50	15	QPSK	1 / 0	22.00	0.00	22.00	0.159	33.01	-11.01
1880.00	15	QPSK	1 / 0	21.90	0.00	21.90	0.155	33.01	-11.11
1902.50	15	QPSK	1 / 0	21.91	0.00	21.91	0.155	33.01	-11.10
1902.50	15	16-QAM	1 / 0	21.25	0.00	21.25	0.133	33.01	-11.76
1902.50	15	64-QAM	1 / 74	20.78	0.00	20.78	0.120	33.01	-12.23
1860.00	20	QPSK	1 / 0	21.93	0.00	21.93	0.156	33.01	-11.08
1880.00	20	QPSK	1 / 0	21.96	0.00	21.96	0.157	33.01	-11.05
1900.00	20	QPSK	1 / 0	22.00	0.00	22.00	0.159	33.01	-11.01
1900.00	20	16-QAM	1 / 0	21.35	0.00	21.35	0.137	33.01	-11.66
1900.00	20	64-QAM	1 / 99	20.85	0.00	20.85	0.122	33.01	-12.16

Table 7-54. EIRP Data (Band 2)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 302 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	21.97	0.00	21.97	0.158	33.01	-11.04
1882.50	1.4	QPSK	3 / 3	21.83	0.00	21.83	0.152	33.01	-11.18
1914.30	1.4	QPSK	1 / 0	21.92	0.00	21.92	0.156	33.01	-11.09
1914.30	1.4	16-QAM	1 / 0	21.42	0.00	21.42	0.139	33.01	-11.60
1914.30	1.4	64-QAM	1 / 2	20.86	0.00	20.86	0.122	33.01	-12.15
1851.50	3	QPSK	1 / 7	22.00	0.00	22.00	0.159	33.01	-11.01
1882.50	3	QPSK	1 / 7	21.87	0.00	21.87	0.154	33.01	-11.14
1913.50	3	QPSK	1 / 7	21.92	0.00	21.92	0.156	33.01	-11.09
1913.50	3	16-QAM	1 / 0	21.49	0.00	21.49	0.141	33.01	-11.52
1913.50	3	64-QAM	1 / 7	20.70	0.00	20.70	0.117	33.01	-12.31
1852.50	5	QPSK	1 / 0	22.00	0.00	22.00	0.158	33.01	-11.01
1882.50	5	QPSK	1 / 24	21.76	0.00	21.76	0.150	33.01	-11.25
1912.50	5	QPSK	1 / 0	22.00	0.00	22.00	0.158	33.01	-11.01
1912.50	5	16-QAM	1 / 24	21.43	0.00	21.43	0.139	33.01	-11.58
1912.50	5	64-QAM	1 / 0	20.77	0.00	20.77	0.119	33.01	-12.24
1855.00	10	QPSK	1 / 0	21.98	0.00	21.98	0.158	33.01	-11.03
1882.50	10	QPSK	1 / 25	21.90	0.00	21.90	0.155	33.01	-11.11
1910.00	10	QPSK	1 / 49	21.91	0.00	21.91	0.155	33.01	-11.10
1910.00	10	16-QAM	1 / 0	21.38	0.00	21.38	0.137	33.01	-11.63
1910.00	10	64-QAM	1 / 25	20.84	0.00	20.84	0.121	33.01	-12.17
1857.50	15	QPSK	1 / 0	21.99	0.00	21.99	0.158	33.01	-11.02
1882.50	15	QPSK	1 / 36	21.95	0.00	21.95	0.157	33.01	-11.06
1907.50	15	QPSK	1 / 0	21.94	0.00	21.94	0.156	33.01	-11.07
1907.50	15	16-QAM	1 / 0	21.40	0.00	21.40	0.138	33.01	-11.61
1907.50	15	64-QAM	1 / 36	20.73	0.00	20.73	0.118	33.01	-12.28
1860.00	20	QPSK	1 / 0	21.88	0.00	21.88	0.154	33.01	-11.13
1882.50	20	QPSK	1 / 0	21.98	0.00	21.98	0.158	33.01	-11.03
1905.00	20	QPSK	1 / 99	21.98	0.00	21.98	0.158	33.01	-11.03
1905.00	20	16-QAM	1 / 0	21.45	0.00	21.45	0.139	33.01	-11.57
1905.00	20	64-QAM	1 / 0	20.77	0.00	20.77	0.119	33.01	-12.24

Table 7-55. EIRP Data (Band 25)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 303 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 / 0	22.00	0.50	22.50	0.178	23.98	-1.48
2310.00	5	QPSK	1 / 24	21.99	0.50	22.49	0.177	23.98	-1.49
2312.50	5	QPSK	1 / 24	22.00	0.50	22.50	0.178	23.98	-1.48
2312.50	5	16-QAM	1 / 24	21.62	0.50	22.12	0.163	23.98	-1.86
2312.50	5	64-QAM	1 / 24	20.87	0.50	21.37	0.137	23.98	-2.61
2310.00	10	QPSK	1 / 0	22.00	0.50	22.50	0.178	23.98	-1.48
2310.00	10	16-QAM	1 / 49	21.67	0.50	22.17	0.165	23.98	-1.81
2310.00	10	64-QAM	1 / 0	20.96	0.50	21.46	0.140	23.98	-2.52

Table 7-56. EIRP Data (Band 30)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 304 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 / 0	21.49	0.10	21.59	0.144	33.01	-11.42
2535.00	5	QPSK	1 / 12	20.77	0.10	20.87	0.122	33.01	-12.14
2567.50	5	QPSK	1 / 24	21.23	0.10	21.33	0.136	33.01	-11.68
2502.50	5	16-QAM	1 / 0	20.53	0.10	20.63	0.116	33.01	-12.38
2502.50	5	64-QAM	1 / 0	20.40	0.10	20.50	0.112	33.01	-12.51
2505.00	10	QPSK	1 / 0	21.20	0.10	21.30	0.135	33.01	-11.71
2535.00	10	QPSK	1 / 49	20.91	0.10	21.01	0.126	33.01	-12.00
2565.00	10	QPSK	1 / 49	21.22	0.10	21.32	0.136	33.01	-11.69
2565.00	10	16-QAM	1 / 49	20.71	0.10	20.81	0.121	33.01	-12.20
2565.00	10	64-QAM	1 / 49	20.23	0.10	20.33	0.108	33.01	-12.68
2507.50	15	QPSK	1 / 0	21.13	0.10	21.23	0.133	33.01	-11.78
2535.00	15	QPSK	1 / 74	21.32	0.10	21.42	0.139	33.01	-11.59
2562.50	15	QPSK	1 / 36	21.39	0.10	21.49	0.141	33.01	-11.52
2562.50	15	16-QAM	1 / 0	20.59	0.10	20.69	0.117	33.01	-12.32
2562.50	15	64-QAM	1 / 74	20.18	0.10	20.28	0.107	33.01	-12.73
2510.00	20	QPSK	1 / 0	21.50	0.10	21.60	0.145	33.01	-11.41
2535.00	20	QPSK	1 / 99	21.41	0.10	21.51	0.142	33.01	-11.50
2560.00	20	QPSK	1 / 0	21.47	0.10	21.57	0.144	33.01	-11.44
2560.00	20	16-QAM	1 / 0	20.70	0.10	20.80	0.120	33.01	-12.21
2560.00	20	64-QAM	1 / 99	20.23	0.10	20.33	0.108	33.01	-12.68

Table 7-57. EIRP Data (Band 7)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 305 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	22.75	0.10	22.85	0.193	33.01	-10.16
2593.00	5	QPSK	1 / 0	22.56	0.10	22.66	0.184	33.01	-10.35
2687.50	5	QPSK	1 / 12	22.54	0.10	22.64	0.183	33.01	-10.37
2502.50	5	16-QAM	1 / 0	22.65	0.10	22.75	0.188	33.01	-10.26
2502.50	5	64-QAM	1 / 24	21.63	0.10	21.73	0.149	33.01	-11.28
2501.00	10	QPSK	1 / 0	22.75	0.10	22.85	0.193	33.01	-10.16
2593.00	10	QPSK	1 / 0	22.75	0.10	22.85	0.193	33.01	-10.16
2685.00	10	QPSK	1 / 0	22.54	0.10	22.64	0.184	33.01	-10.37
2505.00	10	16-QAM	1 / 0	22.65	0.10	22.75	0.188	33.01	-10.26
2505.00	10	64-QAM	1 / 49	21.58	0.10	21.68	0.147	33.01	-11.33
2503.50	15	QPSK	1 / 0	22.69	0.10	22.79	0.190	33.01	-10.22
2593.00	15	QPSK	1 / 36	22.75	0.10	22.85	0.193	33.01	-10.16
2682.50	15	QPSK	1 / 0	22.59	0.10	22.69	0.186	33.01	-10.33
2507.50	15	16-QAM	1 / 36	22.43	0.10	22.53	0.179	33.01	-10.48
2507.50	15	64-QAM	1 / 74	21.71	0.10	21.81	0.152	33.01	-11.20
2506.00	20	QPSK	1 / 0	22.51	0.10	22.61	0.183	33.01	-10.40
2593.00	20	QPSK	1 / 50	22.75	0.10	22.85	0.193	33.01	-10.16
2680.00	20	QPSK	1 / 0	22.73	0.10	22.83	0.192	33.01	-10.18
2593.00	20	16-QAM	1 / 99	22.12	0.10	22.22	0.167	33.01	-10.79
2593.00	20	64-QAM	1 / 99	21.66	0.10	21.76	0.150	33.01	-11.25

Table 7-58. EIRP Data (Band 41)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.8 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.

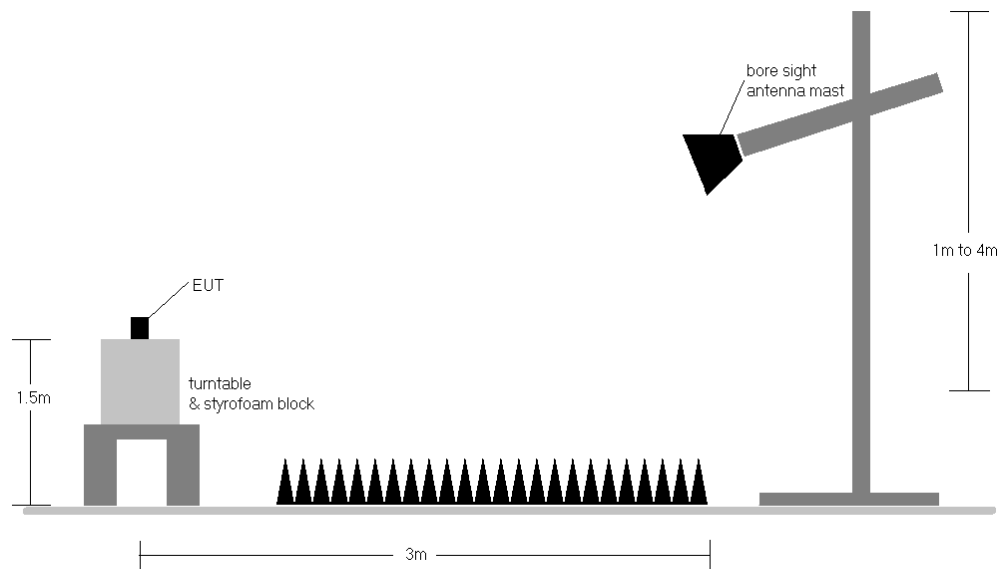


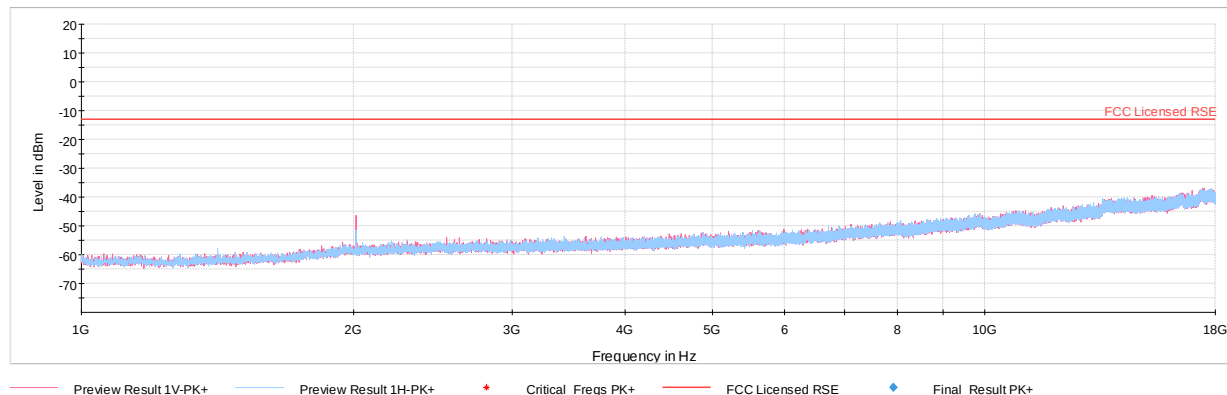
Figure 7-7. Test Instrument & Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 6) All ports were tested and only the worst case data were reported.
- 7) Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.
- 8) For LTE Band 30 the spurious emissions at 18GHz are compliant when measuring with a RMS detector and trace averaging.

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7.8.1 ANT 3 (Port-A) Radiated Spurious Emissions Measurements Band 71



Plot 7-444. Radiated Spurious Plot above 1GHz (Band 71)

OPERATING FREQUENCY: 673.00 MHz
 CHANNEL: 133222
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1346.00	H	170	325	-71.34	3.29	-68.05	-55.0
2019.00	H	158	175	-67.76	4.11	-63.65	-50.6
2692.00	H	-	-	-68.80	5.91	-62.89	-49.9
3365.00	H	-	-	-69.71	7.25	-62.46	-49.5
4038.00	H	-	-	-69.83	7.85	-61.98	-49.0

Table 7-59. Radiated Spurious Data (Band 71 – Low Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 309 of 398

OPERATING FREQUENCY: 680.50 MHz
CHANNEL: 133297
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1361.00	H	195	10	-71.34	3.43	-67.92	-54.9
2041.50	H	268	169	-63.40	4.24	-59.16	-46.2
2722.00	H	-	-	-68.76	5.96	-62.80	-49.8
3402.50	H	-	-	-70.67	7.26	-63.41	-50.4
4083.00	H	-	-	-70.08	7.80	-62.28	-49.3

Table 7-60. Radiated Spurious Data (Band 71 – Mid Channel)

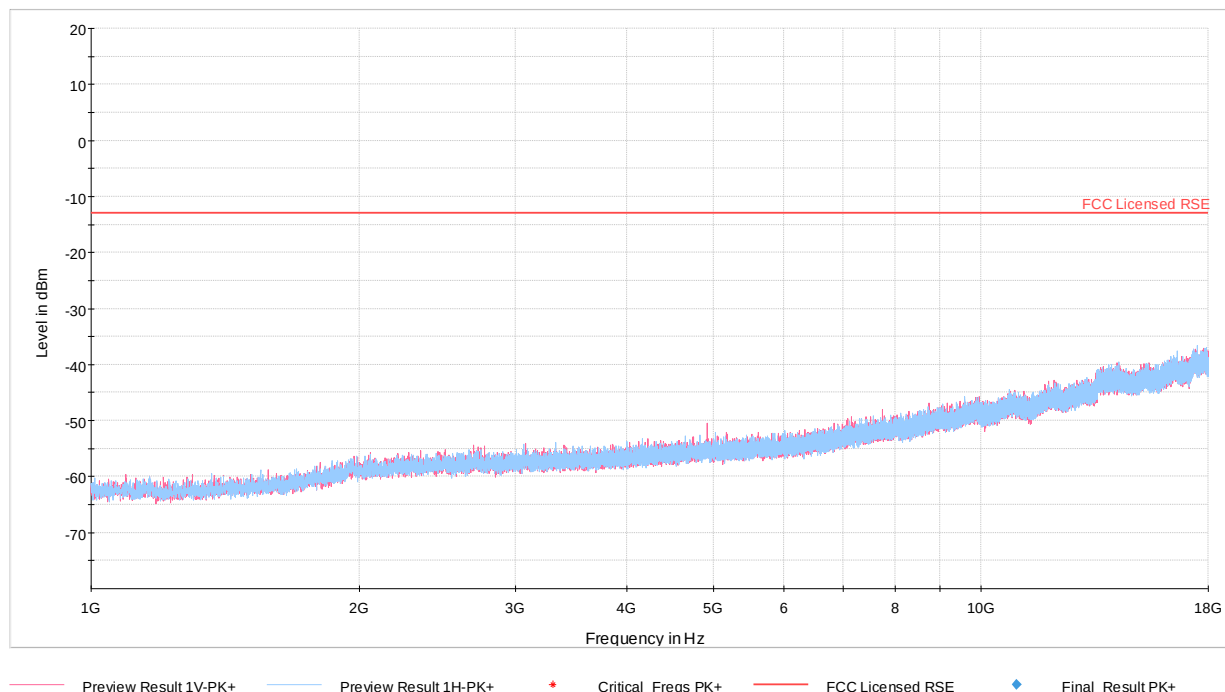
OPERATING FREQUENCY: 688.00 MHz
CHANNEL: 133372
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1376.00	H	-	-	-71.38	3.56	-67.82	-54.8
2064.00	H	-	-	-68.86	4.37	-64.48	-51.5
2752.00	H	-	-	-69.15	6.00	-63.15	-50.1

Table 7-61. Radiated Spurious Data (Band 71 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 12/17



Plot 7-445. Radiated Spurious Plot above 1GHz (Band 12/17)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	-	-	-71.95	3.84	-68.12	-55.1
2112.00	H	-	-	-68.55	4.65	-63.91	-50.9
2816.00	H	-	-	-69.36	6.03	-63.33	-50.3

Table 7-62. Radiated Spurious Data (Band 12/17 – Low Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 311 of 398

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	-	-	-72.00	3.90	-68.10	-55.1
2122.50	H	-	-	-69.17	4.71	-64.46	-51.5
2830.00	H	-	-	-69.36	6.03	-63.33	-50.3

Table 7-63. Radiated Spurious Data (Band 12/17 – Mid Channel)

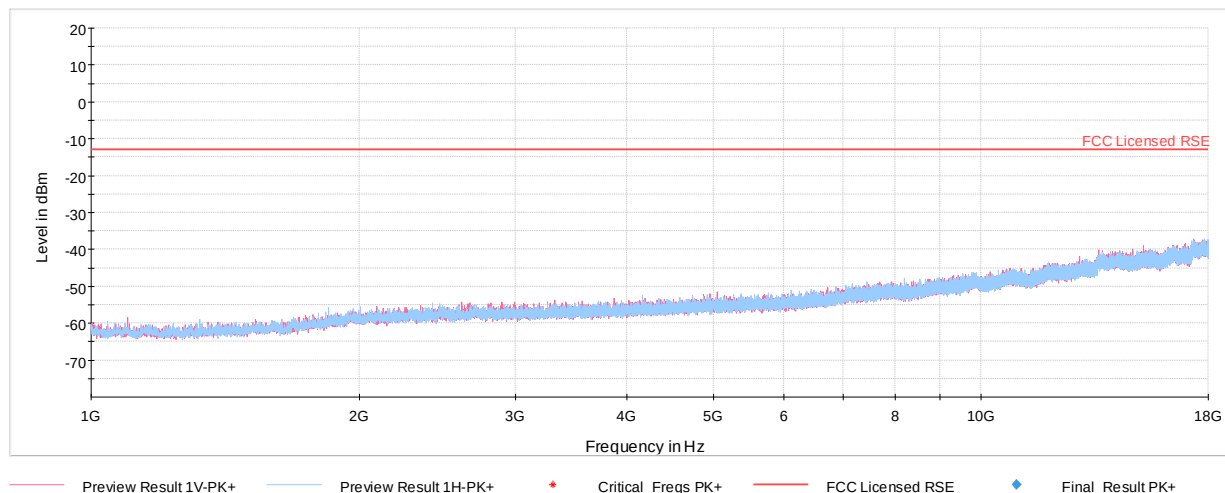
OPERATING FREQUENCY: 711.00 MHz
 CHANNEL: 23130
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	268	157	-71.41	3.96	-67.46	-54.5
2133.00	H	279	115	-64.63	4.77	-59.87	-46.9
2844.00	H	-	-	-70.14	6.04	-64.11	-51.1
3555.00	H	-	-	-70.18	7.28	-62.90	-49.9
4266.00	H	-	-	-69.96	7.62	-62.34	-49.3

Table 7-64. Radiated Spurious Data (Band 12/17 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 312 of 398

Band 13



Plot 7-446. Radiated Spurious Plot above 1GHz (Band 13)

OPERATING FREQUENCY: 779.50 MHz
 CHANNEL: 23205
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	H	-	-	-69.42	5.47	-63.95	-51.0
3118.00	H	-	-	-69.56	6.63	-62.93	-49.9
3897.50	H	-	-	-69.92	7.62	-62.30	-49.3

Table 7-65. Radiated Spurious Data (Band 13 – Low Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 313 of 398

OPERATING FREQUENCY: 782.00 MHz
 CHANNEL: 23230
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	H	-	-	-69.20	5.48	-63.72	-50.7
3128.00	H	-	-	-69.89	6.67	-63.22	-50.2
3910.00	H	-	-	-70.10	7.65	-62.44	-49.4

Table 7-66. Radiated Spurious Data (Band 13 – Mid Channel)

OPERATING FREQUENCY: 784.50 MHz
 CHANNEL: 23255
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	H	-	-	-69.21	5.49	-63.73	-50.7
3138.00	H	-	-	-69.65	6.72	-62.93	-49.9
3922.50	H	-	-	-70.20	7.69	-62.51	-49.5

Table 7-67. Radiated Spurious Data (Band 13 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 314 of 398

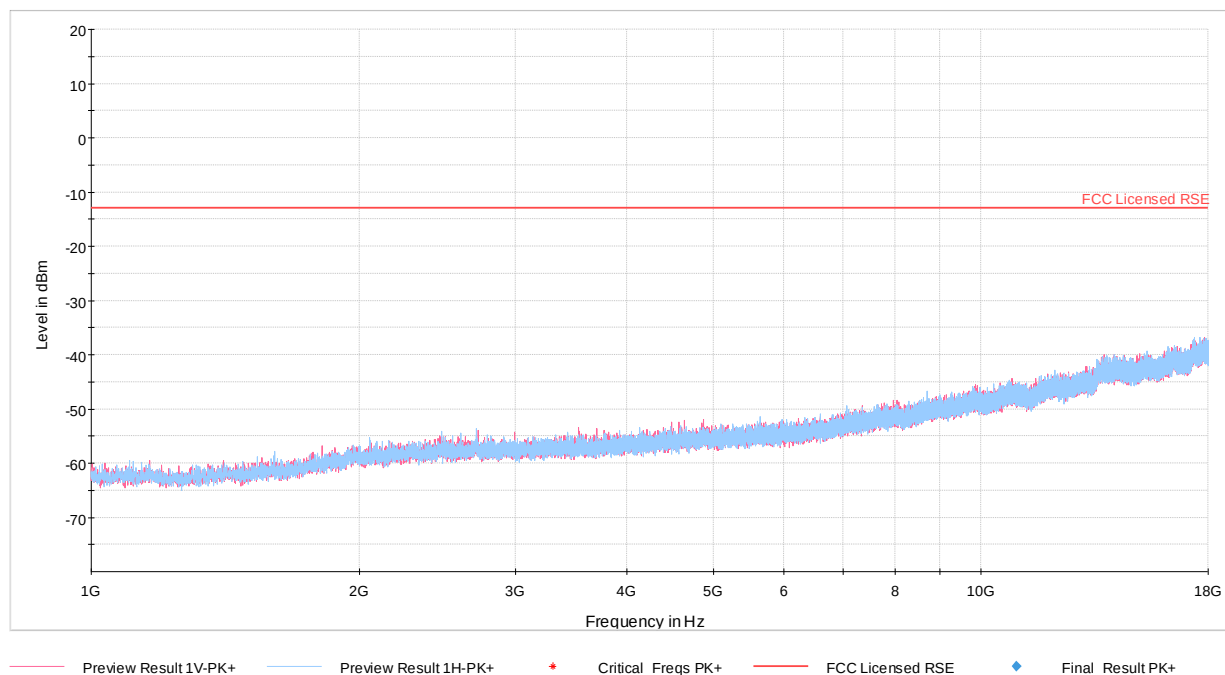
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	5.00	MHz
DISTANCE:	3	meters
NARROWBAND EMISSION LIMIT:	-50	dBm
WIDEBAND EMISSION LIMIT:	-40	dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	H	175	166	-69.94	4.55	-65.39	-25.4
1564.00	H	277	175	-70.37	4.55	-65.82	-25.8
1569.00	H	342	175	-70.87	4.54	-66.33	-26.3

Table 7-68. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 315 of 398

Band 26/5



Plot 7-447. Radiated Spurious Plot above 1GHz (Band 26/5)

OPERATING FREQUENCY: 829.00 MHz
CHANNEL: 26840
MODULATION SIGNAL: QPSK
BANDWIDTH: 10.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	-	-	-72.08	4.47	-67.61	-54.6
2487.00	H	-	-	-69.00	5.59	-63.41	-50.4
3316.00	H	-	-	-70.06	7.23	-62.84	-49.8

Table 7-69. Radiated Spurious Data (Band 26/5 – Low Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 316 of 398

OPERATING FREQUENCY: 836.50 MHz
 CHANNEL: 26915
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	-	-	-71.73	4.46	-67.27	-54.3
2509.50	H	-	-	-69.08	5.62	-63.47	-50.5
3346.00	H	-	-	-70.03	7.24	-62.79	-49.8

Table 7-70. Radiated Spurious Data (Band 26/5 – Mid Channel)

OPERATING FREQUENCY: 844.00 MHz
 CHANNEL: 26990
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

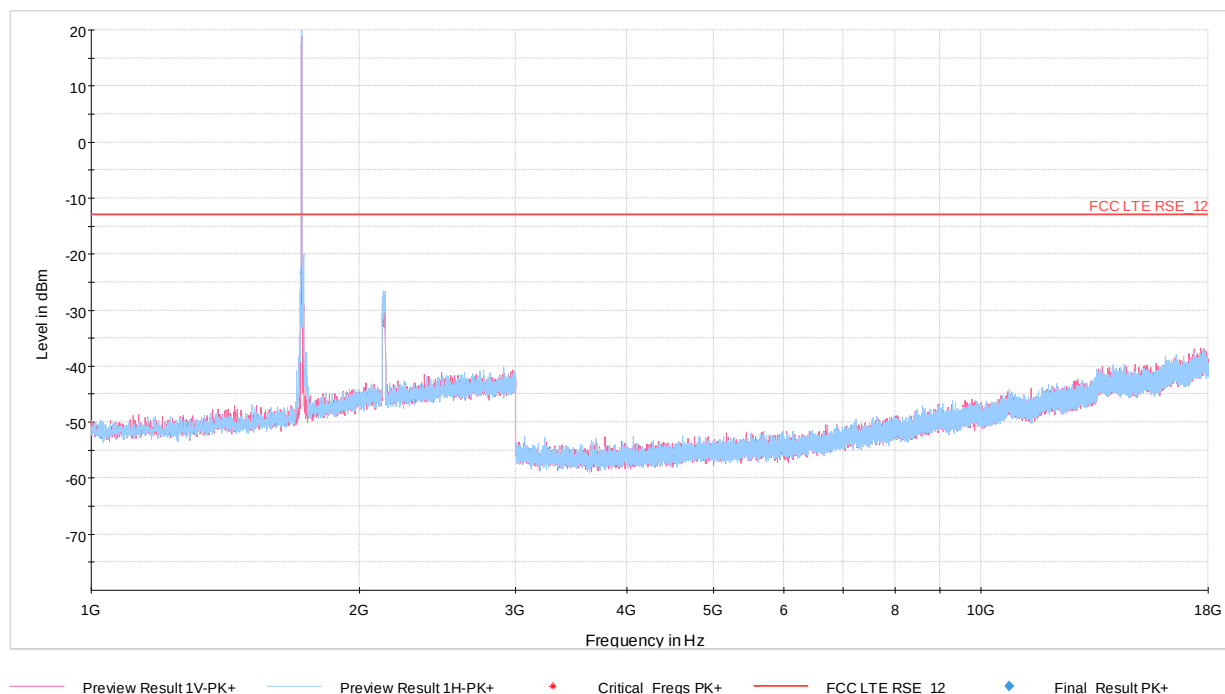
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	-	-	-71.62	4.45	-67.17	-54.2
2532.00	H	-	-	-69.25	5.65	-63.59	-50.6
3376.00	H	-	-	-70.55	7.25	-63.30	-50.3

Table 7-71. Radiated Spurious Data (Band 26/5 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 317 of 398

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

Band 66/4



Plot 7-448. Radiated Spurious Plot above 1GHz (Band 66/4)

OPERATING FREQUENCY: 1720.00 MHz
 CHANNEL: 132072
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	V	-	-	-69.05	7.28	-61.78	-48.8
5160.00	V	117	346	-68.24	7.88	-60.37	-47.4
6880.00	H	-	-	-67.58	8.91	-58.67	-45.7
8600.00	H	-	-	-66.26	10.36	-55.90	-42.9
10320.00	V	-	-	-64.97	10.34	-54.63	-41.6

Table 7-72. Radiated Spurious Data (Band 66/4 – Low Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 318 of 398

OPERATING FREQUENCY: 1745.00 MHz
 CHANNEL: 132322
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	V	-	-	-68.92	7.30	-61.62	-48.6
5235.00	H	-	-	-68.52	7.73	-60.79	-47.8
6980.00	V	-	-	-67.44	9.15	-58.29	-45.3

Table 7-73. Radiated Spurious Data (Band 66/4 – Mid Channel)

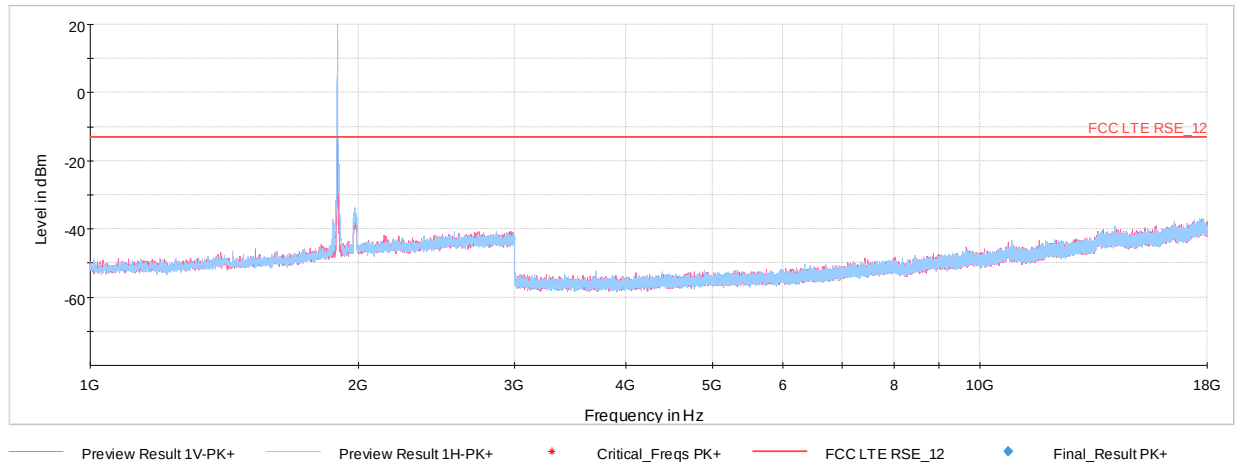
OPERATING FREQUENCY: 1770.00 MHz
 CHANNEL: 132572
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-69.34	7.28	-62.06	-49.1
5310.00	V	-	-	-68.22	7.87	-60.35	-47.3
7080.00	H	-	-	-67.65	9.20	-58.45	-45.4

Table 7-74. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 319 of 398

Band 25/2



Plot 7-449. Radiated Spurious Plot above 1GHz (Band 25/2)

OPERATING FREQUENCY: 1860.00 MHz
 CHANNEL: 26140
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	V	-	-	-69.36	7.21	-62.15	-49.2
5580.00	H	-	-	-68.59	8.27	-60.32	-47.3
7440.00	V	-	-	-67.29	9.58	-57.71	-44.7

Table 7-75. Radiated Spurious Data (Band 25/2 – Low Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 320 of 398

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-69.26	7.24	-62.01	-49.0
5647.50	V	158	172	-68.17	8.16	-60.01	-47.0
7530.00	V	-	-	-67.18	9.69	-57.49	-44.5
9412.50	H	-	-	-65.98	10.63	-55.35	-42.3
11295.00	H	-	-	-64.27	10.88	-53.38	-40.4

Table 7-76. Radiated Spurious Data (Band 25/2 – Mid Channel)

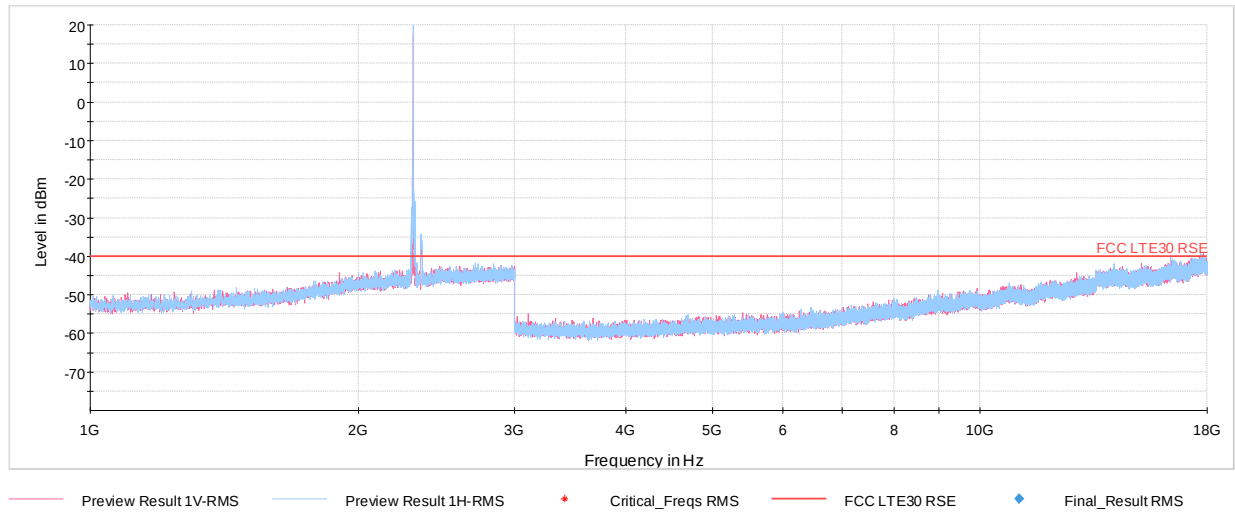
OPERATING FREQUENCY: 1905.00 MHz
CHANNEL: 26590
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-69.47	7.37	-62.10	-49.1
5715.00	V	268	174	-66.23	8.05	-58.18	-45.2
7620.00	V	-	-	-67.49	9.65	-57.84	-44.8
9525.00	V	-	-	-65.82	10.67	-55.15	-42.2
11430.00	V	-	-	-64.39	10.83	-53.56	-40.6

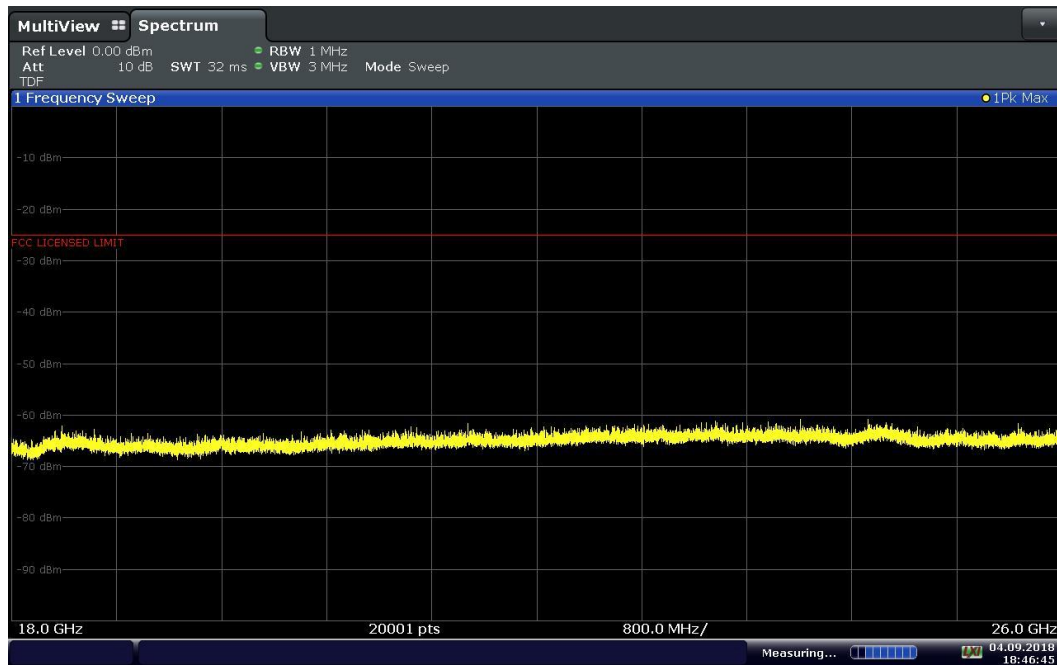
Table 7-77. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 321 of 398

Band 30



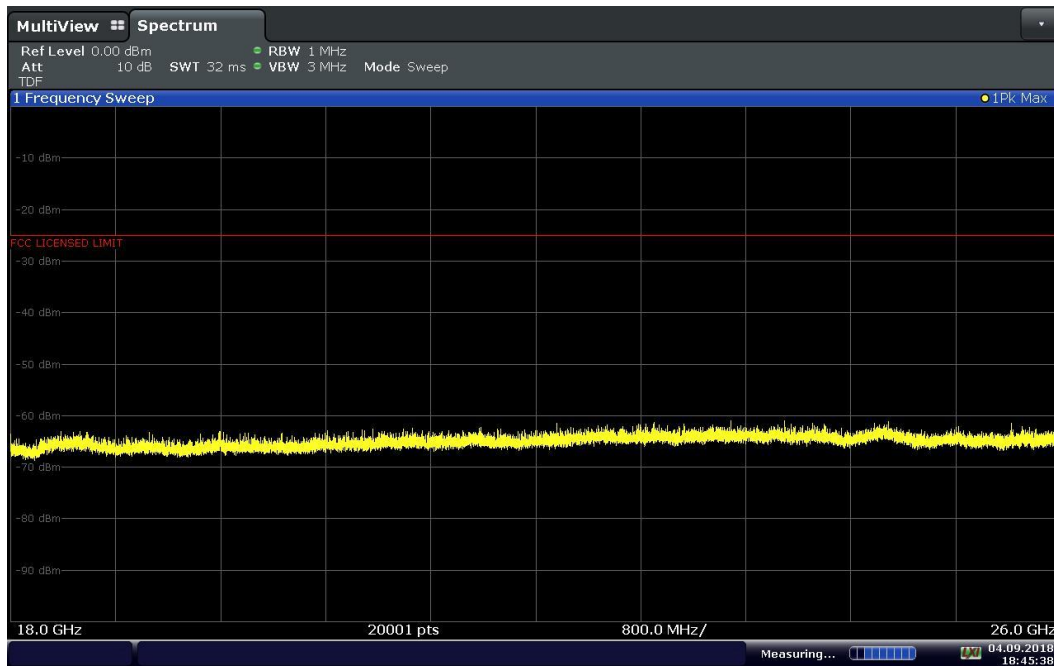
Plot 7-450. Radiated Spurious Plot 1GHz - 18GHz (Band 30)



18:46:45 04.09.2018

Plot 7-451. Radiated Spurious Plot 18GHz – 26.5GHz H (Band 30)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 322 of 398



18:45:39 04.09.2018

Plot 7-452. Radiated Spurious Plot 18GHz – 26.5GHz V (Band 30)

OPERATING FREQUENCY: 2307.50 MHz
 CHANNEL: 27685
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-69.04	7.81	-61.24	-21.2
6922.50	V	146	151	-66.99	9.02	-57.98	-18.0
9230.00	V	-	-	-65.82	10.50	-55.32	-15.3
11537.50	V	-	-	-64.26	10.78	-53.47	-13.5
13845.00	V	-	-	-60.82	11.40	-49.42	-9.4

Table 7-78. Radiated Spurious Data (Band 30 – Low Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 323 of 398

OPERATING FREQUENCY: 2310.00 MHz
 CHANNEL: 27710
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	V	-	-	-69.09	7.80	-61.28	-21.3
6930.00	V	195	148	-67.06	9.03	-58.02	-18.0
9240.00	V	-	-	-65.59	10.50	-55.09	-15.1
11550.00	V	-	-	-64.23	10.78	-53.45	-13.4
13860.00	V	-	-	-60.87	11.40	-49.47	-9.5

Table 7-79. Radiated Spurious Data (Band 30 – Mid Channel)

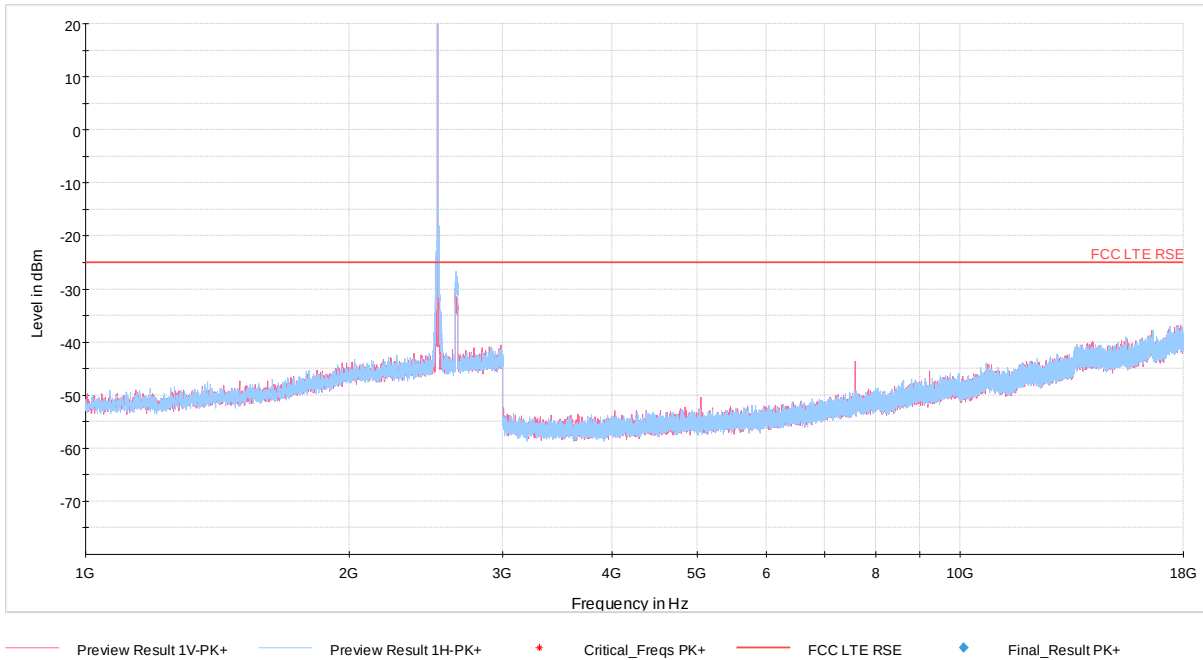
OPERATING FREQUENCY: 2312.50 MHz
 CHANNEL: 27735
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	V	-	-	-69.15	7.80	-61.35	-21.4
6937.50	V	-	-	-67.44	9.05	-58.39	-18.4
9250.00	H	-	-	-65.71	10.50	-55.21	-15.2

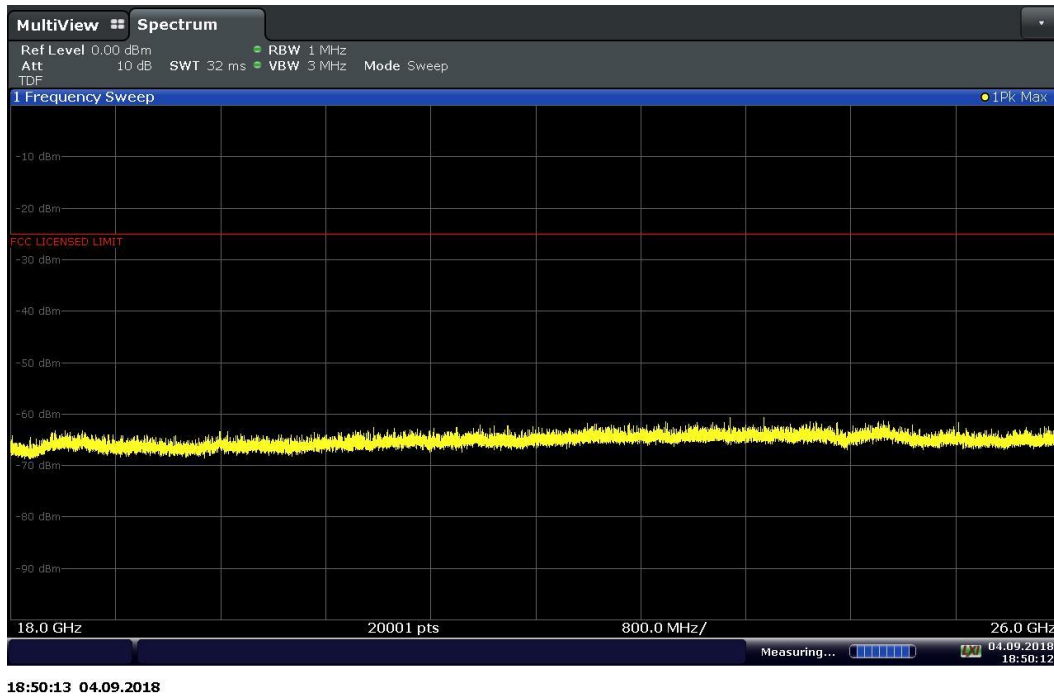
Table 7-80. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 324 of 398

Band 7

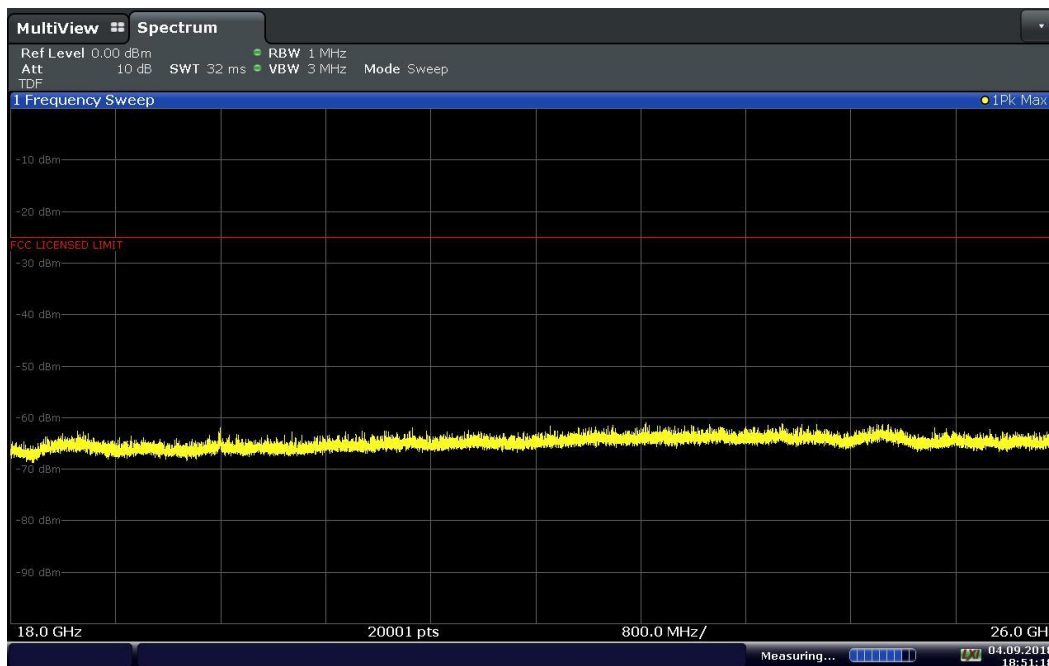


Plot 7-453. Radiated Spurious Plot 1GHz - 18GHz (Band 7)



Plot 7-454. Radiated Spurious Plot 18GHz – 26.5GHz H (Band 7)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 325 of 398



18:51:18 04.09.2018

Plot 7-455. Radiated Spurious Plot 18GHz – 26.5GHz V (Band 7)

OPERATING FREQUENCY: 2510.00 MHz
CHANNEL: 20850
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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	301	141	-64.33	8.16	-56.17	-31.2
7530.00	V	-	-	-67.04	9.69	-57.35	-32.3
10040.00	V	-	-	-65.42	10.48	-54.94	-29.9
12550.00	V	-	-	-62.61	10.82	-51.79	-26.8

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

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 326 of 398

OPERATING FREQUENCY: 2535.00 MHz
 CHANNEL: 21100
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	313	145	-65.08	8.06	-57.02	-32.0
7605.00	V	244	178	-63.87	9.66	-54.21	-29.2
10140.00	V	-	-	-64.86	10.44	-54.42	-29.4
12675.00	H	-	-	-62.45	10.87	-51.58	-26.6
15210.00	V	-	-	-60.19	11.80	-48.39	-23.4

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

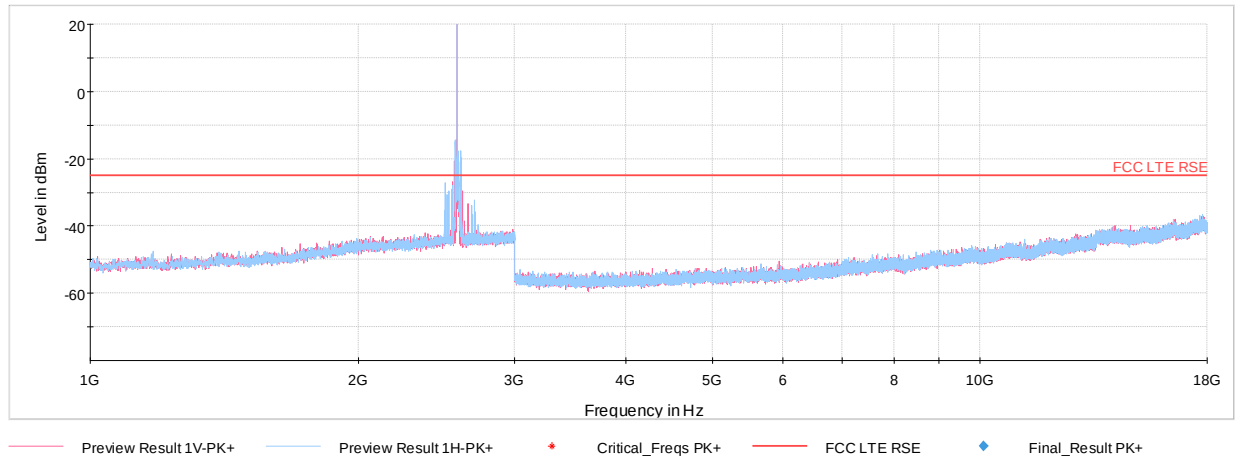
OPERATING FREQUENCY: 2560.00 MHz
 CHANNEL: 21350
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	292	142	-66.68	7.96	-58.73	-33.7
7680.00	V	268	178	-63.27	9.63	-53.64	-28.6
10240.00	V	-	-	-65.14	10.40	-54.74	-29.7
12800.00	H	-	-	-62.28	10.96	-51.32	-26.3
15360.00	H	-	-	-59.49	11.62	-47.87	-22.9

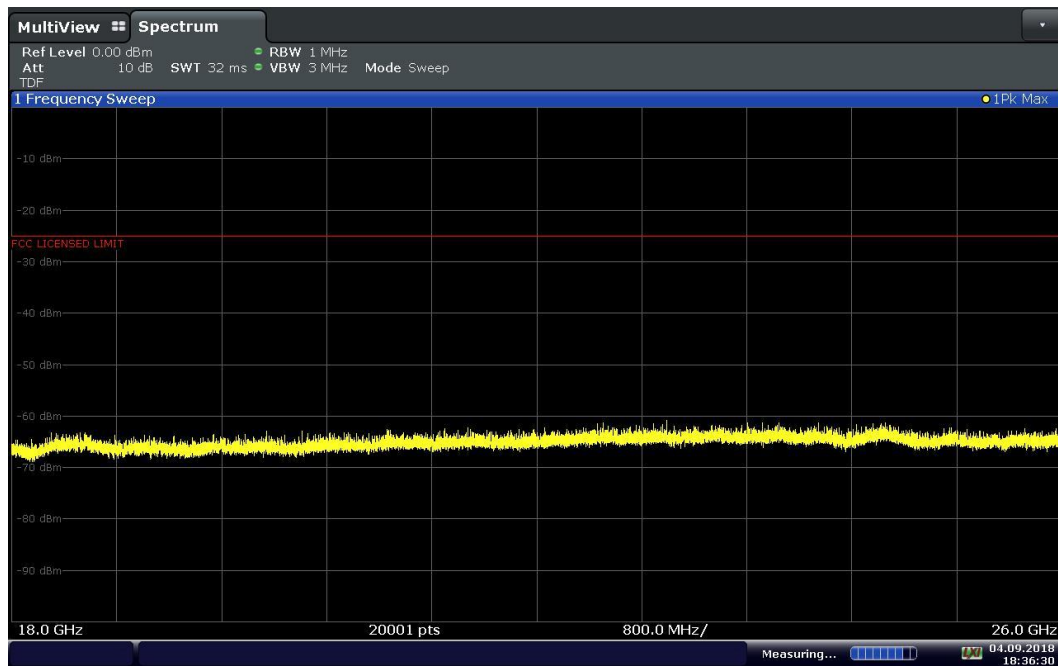
Table 7-83. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 327 of 398

Band 41



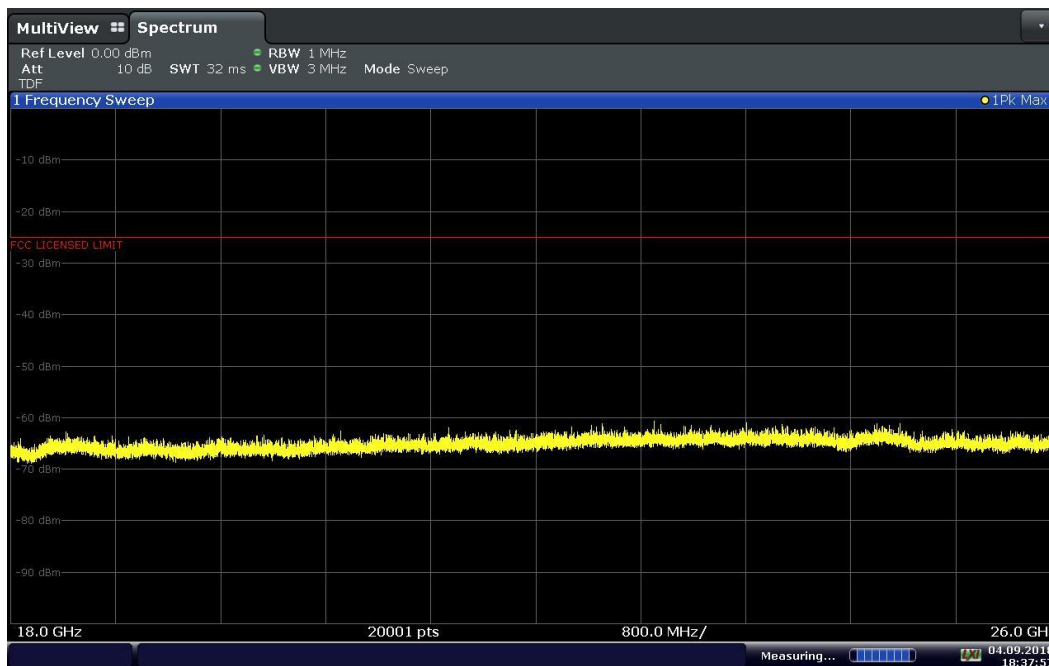
Plot 7-456. Radiated Spurious Plot 1GHz - 18GHz (Band 41)



18:36:30 04.09.2018

Plot 7-457. Radiated Spurious Plot 18GHz – 26.5GHz H (Band 41)

FCC ID: BCGA2013	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-458. Radiated Spurious Plot 18GHz – 26.5GHz V (Band 41)

OPERATING FREQUENCY: 2506.00 MHz
 CHANNEL: 39750
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	297	136	-52.96	8.18	-44.79	-19.8
7518.00	H	293	108	-55.71	9.69	-46.02	-21.0
10024.00	H	-	-	-56.21	10.49	-45.72	-20.7
12530.00	H	-	-	-53.92	10.81	-43.11	-18.1
15036.00	H	-	-	-52.12	11.80	-40.32	-15.3

Table 7-84. Radiated Spurious Data (Band 41 – Low Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 329 of 398

OPERATING FREQUENCY: 2593.00 MHz
CHANNEL: 40620
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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	277	178	-58.24	7.83	-50.41	-25.4
7779.00	V	280	172	-54.19	9.66	-44.53	-19.5
10372.00	V	-	-	-56.12	10.30	-45.82	-20.8
12965.00	V	-	-	-54.45	11.16	-43.29	-18.3
15558.00	V	-	-	-50.63	11.28	-39.35	-14.3

Table 7-85. Radiated Spurious Data (Band 41 – Mid Channel)

OPERATING FREQUENCY: 2680.00 MHz
CHANNEL: 41490
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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-59.24	8.01	-51.23	-26.2
8040.00	V	264	172	-54.11	10.07	-44.04	-19.0
10720.00	V	-	-	-55.03	10.64	-44.39	-19.4
13400.00	V	-	-	-53.74	11.12	-42.62	-17.6
16080.00	V	-	-	-49.57	10.53	-39.03	-14.0

Table 7-86. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.8.3 ANT 1 (Port-B) Radiated Spurious Emissions Measurements Band 71

OPERATING FREQUENCY: 673.00 MHz
 CHANNEL: 133222
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1346.00	H	-	-	-71.08	3.29	-67.79	-54.8
2019.00	H	228	17	-68.38	4.11	-64.27	-51.3
2692.00	H	-	-	-68.76	5.91	-62.85	-49.8
3365.00	H	-	-	-69.68	7.25	-62.43	-49.4

Table 7-87. Radiated Spurious Data (Band 71 – Low Channel)

OPERATING FREQUENCY: 680.50 MHz
 CHANNEL: 133297
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1361.00	H	-	-	-71.13	3.43	-67.71	-54.7
2041.50	H	-	-	-68.39	4.24	-64.15	-51.1
2722.00	H	-	-	-68.92	5.96	-62.96	-50.0

Table 7-88. Radiated Spurious Data (Band 71 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 331 of 398

OPERATING FREQUENCY: 688.00 MHz
 CHANNEL: 133372
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1376.00	H	-	-	-71.25	3.56	-67.69	-54.7
2064.00	H	-	-	-68.64	4.37	-64.26	-51.3
2752.00	H	-	-	-68.99	6.00	-62.99	-50.0

Table 7-89. Radiated Spurious Data (Band 71 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 332 of 398

Band 12/17

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	-	-	-72.41	3.84	-68.58	-55.6
2112.00	H	-	-	-69.82	4.65	-65.18	-52.2
2816.00	H	-	-	-69.89	6.03	-63.86	-50.9

Table 7-90. Radiated Spurious Data (Band 12/17 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	-	-	-72.73	3.90	-68.83	-55.8
2122.50	H	-	-	-69.89	4.71	-65.18	-52.2
2830.00	H	-	-	-69.01	6.03	-62.98	-50.0

Table 7-91. Radiated Spurious Data (Band 12/17 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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OPERATING FREQUENCY: 711.00 MHz
 CHANNEL: 23130
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	-	-	-71.89	3.96	-67.94	-54.9
2133.00	H	-	-	-69.27	4.77	-64.51	-51.5
2844.00	H	-	-	-69.52	6.04	-63.49	-50.5

Table 7-92. Radiated Spurious Data (Band 12/17 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 13

OPERATING FREQUENCY: 779.50 MHz
CHANNEL: 23205
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	H	-	-	-69.29	5.47	-63.82	-50.8
3118.00	H	-	-	-69.54	6.63	-62.91	-49.9

Table 7-93. Radiated Spurious Data (Band 13 – Low Channel)

OPERATING FREQUENCY: 782.00 MHz
CHANNEL: 23230
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	H	-	-	-69.10	5.48	-63.62	-50.6
3128.00	H	-	-	-69.56	6.67	-62.89	-49.9
3910.00	H	-	-	-69.95	7.65	-62.29	-49.3

Table 7-94. Radiated Spurious Data (Band 13 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 335 of 398

OPERATING FREQUENCY: 784.50 MHz
 CHANNEL: 23255
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	H	-	-	-69.31	5.49	-63.83	-50.8
3138.00	H	-	-	-69.63	6.72	-62.91	-49.9

Table 7-95. 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	H	-	-	-71.51	4.55	-66.96	-27.0
1564.00	H	325	11	-71.71	4.55	-67.16	-27.2
1569.00	H	-	-	-71.75	4.54	-67.21	-27.2

Table 7-96. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 26/5

OPERATING FREQUENCY: 829.00 MHz
 CHANNEL: 26840
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	-	-	-74.99	4.47	-70.52	-57.5
2487.00	H	-	-	-70.40	5.59	-64.81	-51.8
3316.00	H	-	-	-69.69	7.23	-62.47	-49.5

Table 7-97. Radiated Spurious Data (Band 26/5 – Low Channel)

OPERATING FREQUENCY: 836.50 MHz
 CHANNEL: 26915
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	-	-	-74.92	4.46	-70.46	-57.5
2509.50	H	-	-	-71.49	5.62	-65.88	-52.9
3346.00	H	-	-	-69.95	7.24	-62.71	-49.7

Table 7-98. Radiated Spurious Data (Band 26/5 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 337 of 398

OPERATING FREQUENCY: 844.00 MHz
 CHANNEL: 26990
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	-	-	-71.52	4.45	-67.07	-54.1
2532.00	H	-	-	-69.08	5.65	-63.42	-50.4
3376.00	H	-	-	-70.48	7.25	-63.23	-50.2

Table 7-99. Radiated Spurious Data (Band 26/5 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.8.4 ANT 2b (Port-B) Radiated Spurious Emissions Measurements

Band 66/4

OPERATING FREQUENCY: 1720.00 MHz
 CHANNEL: 132072
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	V	-	-	-69.10	7.28	-61.83	-48.8
5160.00	V	-	-	-69.06	7.88	-61.19	-48.2
6880.00	V	-	-	-67.73	8.91	-58.82	-45.8

Table 7-100. Radiated Spurious Data (Band 66/4 – Low Channel)

OPERATING FREQUENCY: 1745.00 MHz
 CHANNEL: 132322
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	V	-	-	-69.74	7.30	-62.44	-49.4
5235.00	V	-	-	-68.64	7.73	-60.91	-47.9
6980.00	V	-	-	-67.69	9.15	-58.54	-45.5

Table 7-101. Radiated Spurious Data (Band 66/4 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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OPERATING FREQUENCY: 1770.00 MHz
CHANNEL: 132572
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	V	-	-	-69.44	7.28	-62.16	-49.2
5310.00	V	-	-	-68.45	7.87	-60.58	-47.6
7080.00	V	-	-	-67.54	9.20	-58.34	-45.3

Table 7-102. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 25/2

OPERATING FREQUENCY: 1860.00 MHz
CHANNEL: 26140
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.48	7.21	-62.27	-49.3
5580.00	H	-	-	-69.05	8.27	-60.78	-47.8
7440.00	H	-	-	-67.31	9.58	-57.73	-44.7

Table 7-103. Radiated Spurious Data (Band 25/2 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-69.22	7.24	-61.97	-49.0
5647.50	H	-	-	-68.84	8.16	-60.68	-47.7
7530.00	H	-	-	-67.15	9.69	-57.46	-44.5

Table 7-104. Radiated Spurious Data (Band 25/2 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 341 of 398

OPERATING FREQUENCY: 1905.00 MHz
 CHANNEL: 26590
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-69.46	7.37	-62.09	-49.1
5715.00	H	-	-	-67.63	8.05	-59.58	-46.6
7620.00	H	-	-	-67.36	9.65	-57.71	-44.7

Table 7-105. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 342 of 398

Band 30

OPERATING FREQUENCY: 2307.50 MHz
 CHANNEL: 27685
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	V	-	-	-68.93	7.81	-61.13	-21.1
6922.50	V	231	157	-67.79	9.02	-58.78	-18.8
9230.00	V	-	-	-65.62	10.50	-55.12	-15.1
11537.50	V	-	-	-64.21	10.78	-53.42	-13.4
13845.00	V	-	-	-60.62	11.40	-49.22	-9.2

Table 7-106. Radiated Spurious Data (Band 30 – Low Channel)

OPERATING FREQUENCY: 2310.00 MHz
 CHANNEL: 27710
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	V	-	-	-69.17	7.80	-61.36	-21.4
6930.00	V	-	-	-67.74	9.03	-58.70	-18.7
9240.00	V	-	-	-65.38	10.50	-54.88	-14.9

Table 7-107. Radiated Spurious Data (Band 30 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 343 of 398

OPERATING FREQUENCY: 2312.50 MHz
 CHANNEL: 27735
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	V	-	-	-68.97	7.80	-61.17	-21.2
6937.50	V	244	143	-67.59	9.05	-58.54	-18.5
9250.00	V	-	-	-65.72	10.50	-55.22	-15.2
11562.50	V	-	-	-64.13	10.77	-53.36	-13.4
13875.00	V	-	-	-60.85	11.40	-49.45	-9.5

Table 7-108. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 7

OPERATING FREQUENCY: 2510.00 MHz
CHANNEL: 20850
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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-69.32	8.16	-61.16	-36.2
7530.00	V	-	-	-67.09	9.69	-57.40	-32.4
10040.00	V	-	-	-65.52	10.48	-55.04	-30.0

Table 7-109. Radiated Spurious Data (Band 7 – Low Channel)

OPERATING FREQUENCY: 2535.00 MHz
CHANNEL: 21100
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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	297	136	-67.53	8.06	-59.47	-34.5
7605.00	V	-	-	-67.19	9.66	-57.53	-32.5
10140.00	V	-	-	-65.36	10.44	-54.92	-29.9
12675.00	V	-	-	-62.42	10.87	-51.55	-26.5

Table 7-110. Radiated Spurious Data (Band 7 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 345 of 398

OPERATING FREQUENCY: 2560.00 MHz
 CHANNEL: 21350
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	-	-	-68.96	7.96	-61.01	-36.0
7680.00	V	232	178	-65.71	9.63	-56.08	-31.1
10240.00	V	-	-	-65.25	10.40	-54.85	-29.8
12800.00	V	-	-	-62.45	10.96	-51.49	-26.5
15360.00	V	-	-	-59.50	11.62	-47.88	-22.9

Table 7-111. Radiated Spurious Data (Band 7 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 346 of 398

Band 41

OPERATING FREQUENCY: 2506.00 MHz
 CHANNEL: 39750
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	305	139	-55.51	8.18	-47.34	-22.3
7518.00	V	134	350	-57.66	9.69	-47.97	-23.0
10024.00	H	-	-	-56.01	10.49	-45.52	-20.5
12530.00	V	-	-	-54.09	10.81	-43.28	-18.3
15036.00	H	-	-	-52.31	11.80	-40.51	-15.5

Table 7-112. Radiated Spurious Data (Band 41 – Low Channel)

OPERATING FREQUENCY: 2593.00 MHz
 CHANNEL: 40620
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	-	-	-59.35	7.83	-51.52	-26.5
7779.00	V	-	-	-57.62	9.66	-47.96	-23.0
10372.00	V	-	-	-55.83	10.30	-45.53	-20.5

Table 7-113. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 347 of 398

OPERATING FREQUENCY: 2680.00 MHz
 CHANNEL: 41490
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-58.80	8.01	-50.79	-25.8
8040.00	V	-	-	-58.20	10.07	-48.13	-23.1
10720.00	V	-	-	-54.81	10.64	-44.17	-19.2

Table 7-114. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 348 of 398

7.8.5 ANT 4a (Port-C) Radiated Spurious Emissions Measurements Band 66/4

OPERATING FREQUENCY: 1720.00 MHz
 CHANNEL: 132072
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	V	-	-	-69.26	7.28	-61.99	-49.0
5160.00	V	305	182	-69.02	7.88	-61.15	-48.1
6880.00	V	-	-	-68.11	8.91	-59.20	-46.2
8600.00	V	-	-	-66.49	10.36	-56.13	-43.1
10320.00	V	-	-	-64.72	10.34	-54.38	-41.4

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

OPERATING FREQUENCY: 1745.00 MHz
 CHANNEL: 132322
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-69.94	7.30	-62.64	-49.6
5235.00	V	297	114	-65.58	7.73	-57.85	-44.8
6980.00	V	-	-	-68.20	9.15	-59.05	-46.1
8725.00	V	-	-	-66.49	10.31	-56.18	-43.2
10470.00	H	-	-	-63.89	10.22	-53.67	-40.7

Table 7-116. Radiated Spurious Data (Band 66/4 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 349 of 398

OPERATING FREQUENCY: 1770.00 MHz
 CHANNEL: 132572
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-69.68	7.28	-62.40	-49.4
5310.00	V	305	185	-65.79	7.87	-57.92	-44.9
7080.00	H	-	-	-68.23	9.20	-59.03	-46.0
8850.00	H	-	-	-66.28	10.38	-55.90	-42.9
10620.00	H	-	-	-64.01	10.44	-53.57	-40.6

Table 7-117. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 350 of 398

Band 25/2

OPERATING FREQUENCY: 1860.00 MHz
 CHANNEL: 26140
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.39	7.21	-62.18	-49.2
5580.00	H	-	-	-68.85	8.27	-60.58	-47.6
7440.00	H	-	-	-67.98	9.58	-58.40	-45.4

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-69.79	7.24	-62.54	-49.5
5647.50	H	-	-	-68.92	8.16	-60.76	-47.8
7530.00	H	-	-	-67.52	9.69	-57.83	-44.8

Table 7-119. Radiated Spurious Data (Band 25/2 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 351 of 398

OPERATING FREQUENCY: 1905.00 MHz
 CHANNEL: 26590
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-69.77	7.37	-62.40	-49.4
5715.00	H	-	-	-68.20	8.05	-60.15	-47.1
7620.00	H	-	-	-67.75	9.65	-58.10	-45.1

Table 7-120. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 352 of 398

Band 30

OPERATING FREQUENCY: 2307.50 MHz
 CHANNEL: 27685
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-69.44	7.81	-61.64	-21.6
6922.50	V	285	145	-67.00	9.02	-57.99	-18.0
9230.00	V	-	-	-65.94	10.50	-55.44	-15.4
11537.50	V	-	-	-64.20	10.78	-53.41	-13.4
13845.00	V	-	-	-60.49	11.40	-49.09	-9.1

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

OPERATING FREQUENCY: 2310.00 MHz
 CHANNEL: 27710
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	V	-	-	-69.48	7.80	-61.67	-21.7
6930.00	H	-	-	-68.02	9.03	-58.98	-19.0
9240.00	H	-	-	-65.59	10.50	-55.09	-15.1

Table 7-122. Radiated Spurious Data (Band 30 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 353 of 398

OPERATING FREQUENCY: 2312.50 MHz
 CHANNEL: 27735
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	V	-	-	-69.53	7.80	-61.73	-21.7
6937.50	H	-	-	-68.03	9.05	-58.98	-19.0
9250.00	V	-	-	-65.91	10.50	-55.41	-15.4

Table 7-123. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 354 of 398

Band 7

OPERATING FREQUENCY: 2510.00 MHz
CHANNEL: 20850
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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-69.35	8.16	-61.19	-36.2
7530.00	V	-	-	-67.61	9.69	-57.92	-32.9
10040.00	V	-	-	-65.47	10.48	-54.99	-30.0

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

OPERATING FREQUENCY: 2535.00 MHz
CHANNEL: 21100
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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	285	140	-64.84	8.06	-56.78	-31.8
7605.00	V	265	200	-63.04	9.66	-53.38	-28.4
10140.00	V	-	-	-64.94	10.44	-54.50	-29.5
12675.00	V	-	-	-62.47	10.87	-51.60	-26.6
15210.00	V	-	-	-60.41	11.80	-48.61	-23.6

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

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 355 of 398

OPERATING FREQUENCY: 2560.00 MHz
 CHANNEL: 21350
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-69.18	7.96	-61.23	-36.2
7680.00	H	-	-	-67.45	9.63	-57.82	-32.8
10240.00	H	-	-	-65.16	10.40	-54.76	-29.8

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

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 356 of 398

Band 41

OPERATING FREQUENCY: 2506.00 MHz
 CHANNEL: 39750
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	285	141	-53.84	8.18	-45.67	-20.7
7518.00	V	280	200	-50.53	9.69	-40.84	-15.8
10024.00	V	-	-	-56.18	10.49	-45.69	-20.7
12530.00	V	-	-	-53.66	10.81	-42.85	-17.9
15036.00	V	-	-	-51.53	11.80	-39.73	-14.7

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

OPERATING FREQUENCY: 2593.00 MHz
 CHANNEL: 40620
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	292	140	-55.58	7.83	-47.75	-22.8
7779.00	V	240	177	-54.05	9.66	-44.39	-19.4
10372.00	V	-	-	-55.35	10.30	-45.05	-20.1
12965.00	H	-	-	-53.45	11.16	-42.29	-17.3
15558.00	H	-	-	-50.90	11.28	-39.62	-14.6

Table 7-128. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 357 of 398

OPERATING FREQUENCY: 2680.00 MHz
 CHANNEL: 41490
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-59.16	8.01	-51.15	-26.1
8040.00	V	122	105	-58.23	10.07	-48.16	-23.2
10720.00	V	-	-	-54.78	10.64	-44.14	-19.1
13400.00	H	-	-	-52.72	11.12	-41.60	-16.6
16080.00	H	-	-	-48.99	10.53	-38.45	-13.5

Table 7-129. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 358 of 398

7.8.6 ANT 2a (Port-D) Radiated Spurious Emissions Measurements Band 66/4

OPERATING FREQUENCY: 1720.00 MHz
CHANNEL: 132072
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-69.27	7.28	-62.00	-49.0
5210.00	V	-	-	-68.78	7.78	-61.00	-48.0
6980.00	V	-	-	-68.23	9.15	-59.08	-46.1

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

OPERATING FREQUENCY: 1745.00 MHz
CHANNEL: 132322
MODULATION SIGNAL: QPSK
BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-69.98	7.30	-62.68	-49.7
5235.00	V	-	-	-68.66	7.73	-60.93	-47.9
6980.00	V	-	-	-68.13	9.15	-58.98	-46.0

Table 7-131. Radiated Spurious Data (Band 66/4 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 359 of 398

OPERATING FREQUENCY: 1770.00 MHz
 CHANNEL: 132572
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-69.73	7.28	-62.45	-49.5
5310.00	H	-	-	-68.52	7.87	-60.65	-47.6
7080.00	H	-	-	-68.07	9.20	-58.87	-45.9

Table 7-132. Radiated Spurious Data (Band 66/4 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 360 of 398

Band 25/2

OPERATING FREQUENCY: 1860.00 MHz
 CHANNEL: 26140
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-69.33	7.21	-62.12	-49.1
5580.00	H	-	-	-68.52	8.27	-60.25	-47.3
7440.00	H	-	-	-67.03	9.58	-57.45	-44.4

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-69.27	7.24	-62.02	-49.0
5647.50	H	-	-	-68.43	8.16	-60.27	-47.3
7530.00	H	-	-	-66.87	9.69	-57.18	-44.2

Table 7-134. Radiated Spurious Data (Band 25/2 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 361 of 398

OPERATING FREQUENCY: 1905.00 MHz
 CHANNEL: 26590
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-69.12	7.37	-61.75	-48.7
5715.00	H	109	305	-65.09	8.05	-57.04	-44.0
7620.00	H	-	-	-67.17	9.65	-57.52	-44.5
9525.00	H	-	-	-65.66	10.67	-54.99	-42.0
11430.00	H	-	-	-64.34	10.83	-53.51	-40.5

Table 7-135. Radiated Spurious Data (Band 25/2 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 362 of 398

Band 30

OPERATING FREQUENCY: 2307.50 MHz
 CHANNEL: 27685
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-69.42	7.81	-61.62	-21.6
6922.50	V	-	-	-68.10	9.02	-59.09	-19.1
9230.00	V	-	-	-65.90	10.50	-55.40	-15.4

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

OPERATING FREQUENCY: 2310.00 MHz
 CHANNEL: 27710
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	H	-	-	-69.64	7.80	-61.83	-21.8
6930.00	V	297	157	-67.95	9.03	-58.91	-18.9
9240.00	H	-	-	-65.90	10.50	-55.40	-15.4
11550.00	V	-	-	-64.50	10.78	-53.72	-13.7
13860.00	H	-	-	-60.95	11.40	-49.55	-9.6

Table 7-137. Radiated Spurious Data (Band 30 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 363 of 398

OPERATING FREQUENCY: 2312.50 MHz
 CHANNEL: 27735
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	V	-	-	-69.40	7.80	-61.60	-21.6
6937.50	V	-	-	-68.31	9.05	-59.26	-19.3
9250.00	V	-	-	-65.81	10.50	-55.31	-15.3

Table 7-138. Radiated Spurious Data (Band 30 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 364 of 398

Band 7

OPERATING FREQUENCY: 2510.00 MHz
 CHANNEL: 20850
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-69.21	8.16	-61.05	-36.1
7530.00	V	256	121	-61.56	9.69	-51.87	-26.9
10040.00	H	-	-	-65.49	10.48	-55.01	-30.0
12550.00	H	-	-	-62.61	10.82	-51.79	-26.8

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

OPERATING FREQUENCY: 2535.00 MHz
 CHANNEL: 21100
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	281	144	-68.16	8.06	-60.10	-35.1
7605.00	V	256	121	-63.51	9.66	-53.85	-28.9
10140.00	V	-	-	-65.22	10.44	-54.78	-29.8
12675.00	H	-	-	-62.50	10.87	-51.63	-26.6
15210.00	H	-	-	-60.24	11.80	-48.44	-23.4

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

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 365 of 398

OPERATING FREQUENCY: 2560.00 MHz
 CHANNEL: 21350
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	-	-	-69.41	7.96	-61.46	-36.5
7680.00	V	-	-	-67.32	9.63	-57.69	-32.7
10240.00	V	-	-	-65.08	10.40	-54.68	-29.7

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

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 366 of 398

Band 41

OPERATING FREQUENCY: 2506.00 MHz
 CHANNEL: 39750
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-69.11	8.18	-60.94	-35.9
7518.00	H	-	-	-66.28	9.69	-56.59	-31.6
10024.00	H	-	-	-65.91	10.49	-55.42	-30.4

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

OPERATING FREQUENCY: 2593.00 MHz
 CHANNEL: 40620
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-68.62	7.83	-60.79	-35.8
7779.00	H	-	-	-67.50	9.66	-57.84	-32.8
10372.00	H	-	-	-64.80	10.30	-54.50	-29.5

Table 7-143. Radiated Spurious Data (Band 41 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 367 of 398

OPERATING FREQUENCY: 2680.00 MHz
 CHANNEL: 41490
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-69.03	8.01	-61.02	-36.0
8040.00	V	-	-	-66.89	10.07	-56.82	-31.8
10720.00	V	-	-	-63.36	10.64	-52.72	-27.7

Table 7-144. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 368 of 398

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 $\geq 3 \times$ RBW
3. No. of sweep points $\geq 2 \times$ 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: BCGA2013	 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.

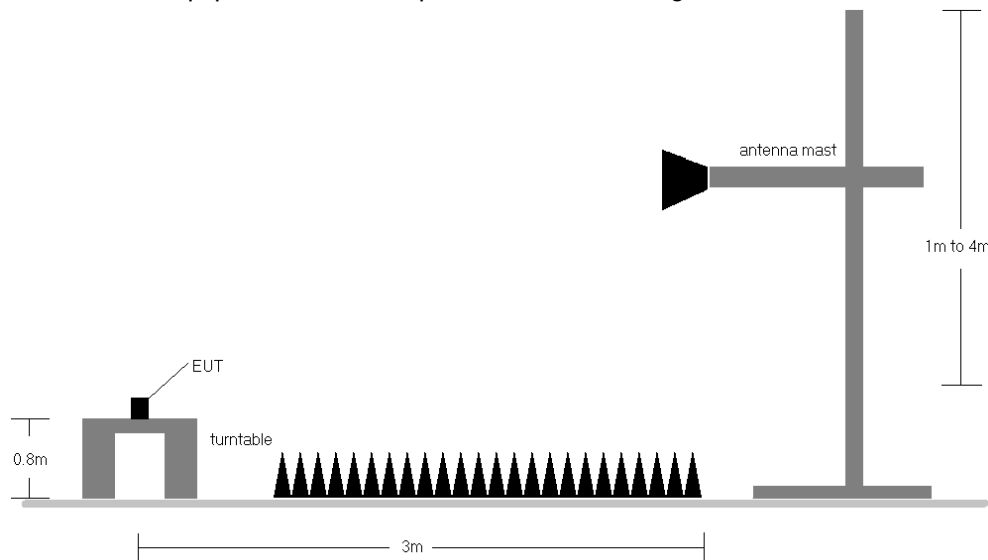
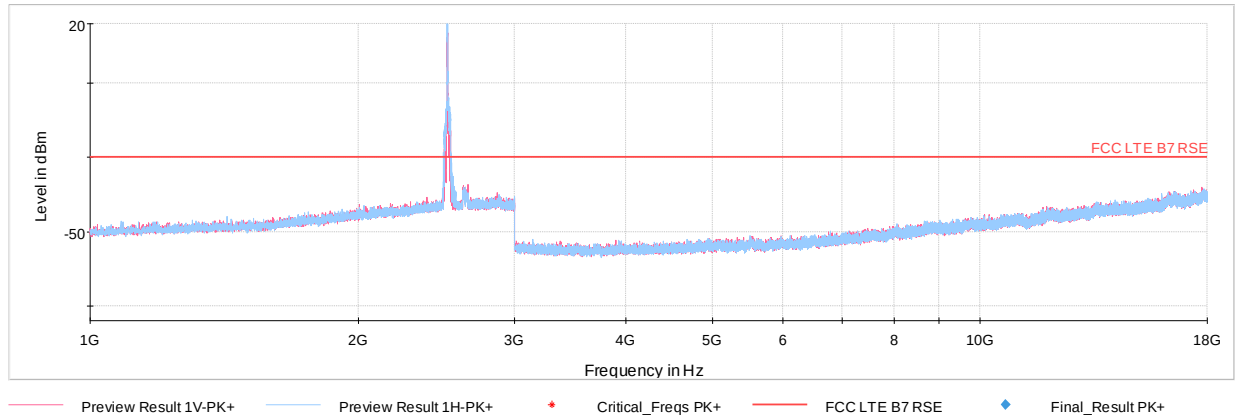


Figure 7-8. Test Instrument & Measurement Setup

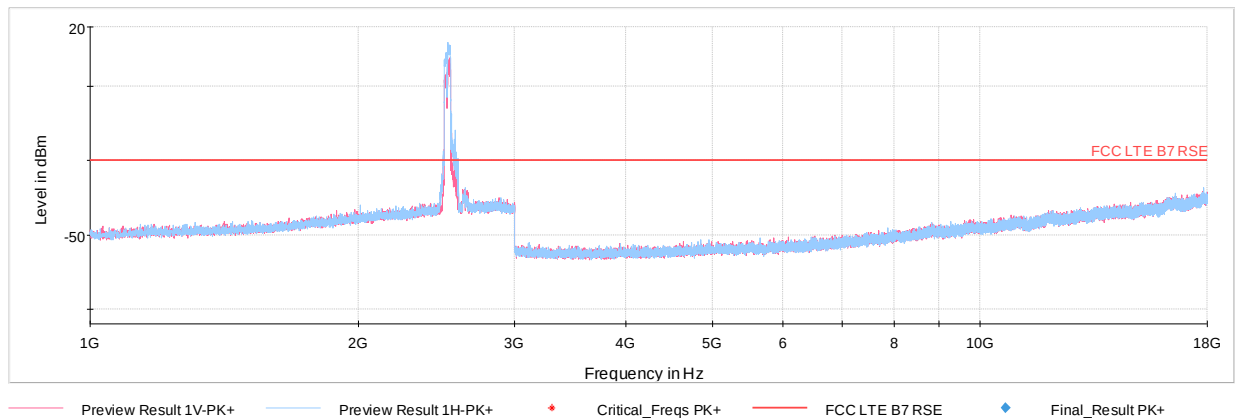
Test Notes

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

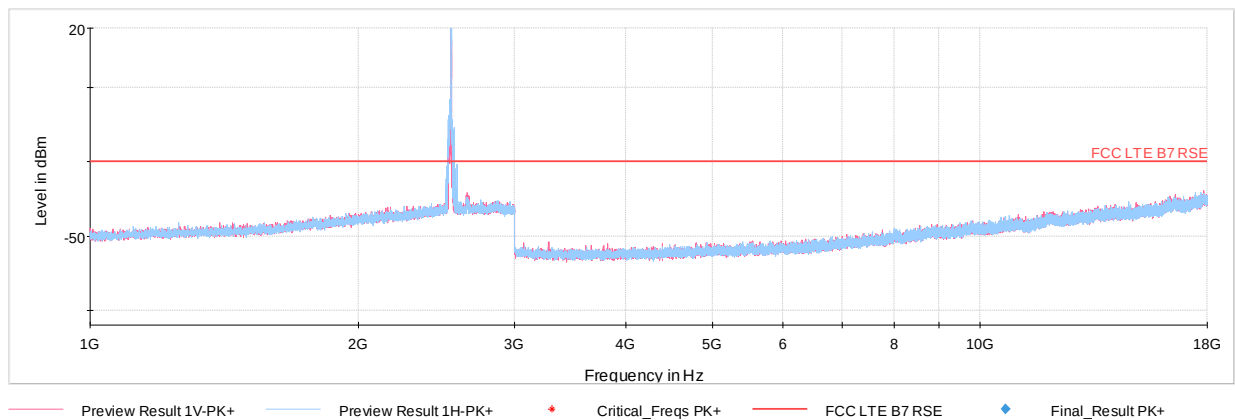
FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 370 of 398



Plot 7-459. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

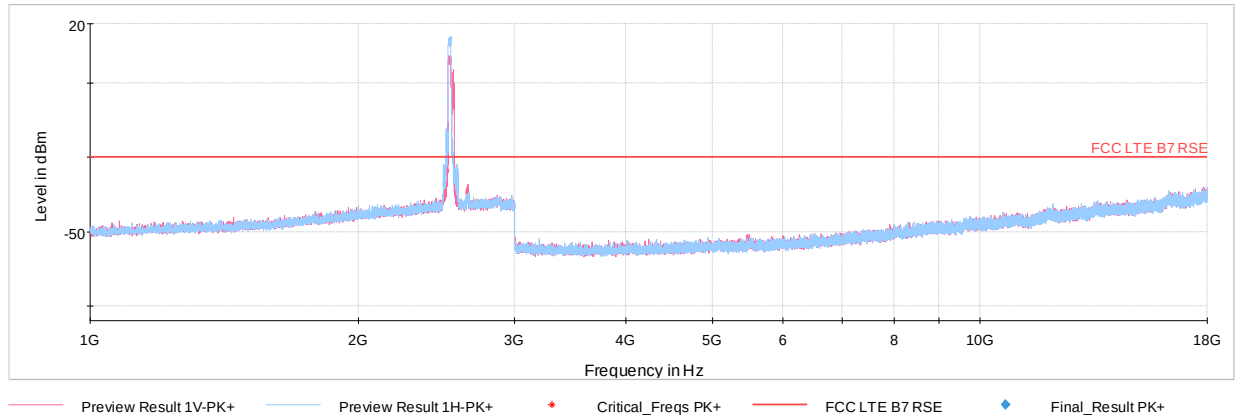


Plot 7-460. Radiated Spurious Plot (ULCA B7 PCC: RB 100 Offset 0, SCC: RB 100 Offset 0 – Low Channel)

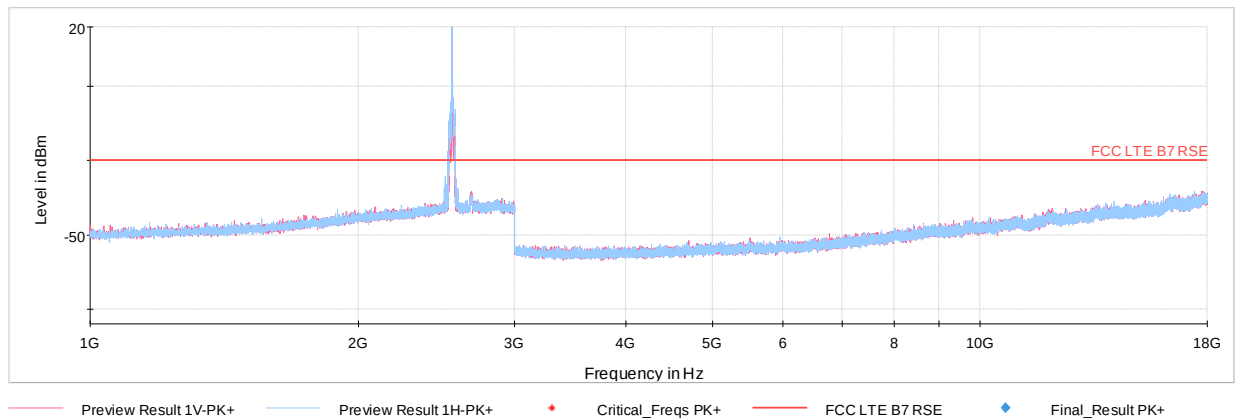


Plot 7-461. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

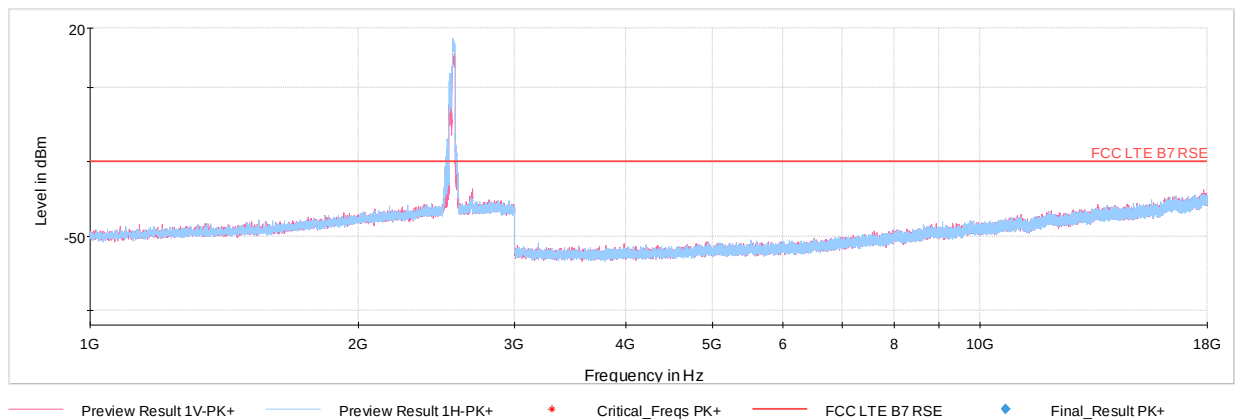
FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 371 of 398



Plot 7-462. Radiated Spurious Plot (ULCA B7 PCC: RB 100 Offset 0, SCC: RB 100 Offset 0 – Mid Channel)



Plot 7-463. Radiated Spurious Plot (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)



Plot 7-464. Radiated Spurious Plot (ULCA B7 PCC: RB 100 Offset 0, SCC: RB 100 Offset 0 – High Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 372 of 398

OPERATING FREQUENCY (PCC): 2510.00 MHz
 OPERATING FREQUENCY (SCC): 2529.80
 CHANNEL (PCC): 20850
 CHANNEL (SCC): 21048
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-56.90	8.16	-48.74	-48.7
7530.00	H	-	-	-51.08	9.69	-41.39	-41.4
10040.00	H	-	-	-47.94	10.48	-37.45	-37.5

Table 7-145. 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
 CHANNEL (PCC): 21100
 CHANNEL (SCC): 21298
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-58.39	8.06	-50.33	-50.3
7605.00	H	-	-	-53.06	9.66	-43.40	-43.4
10140.00	H	-	-	-49.73	10.44	-39.29	-39.3

Table 7-146. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

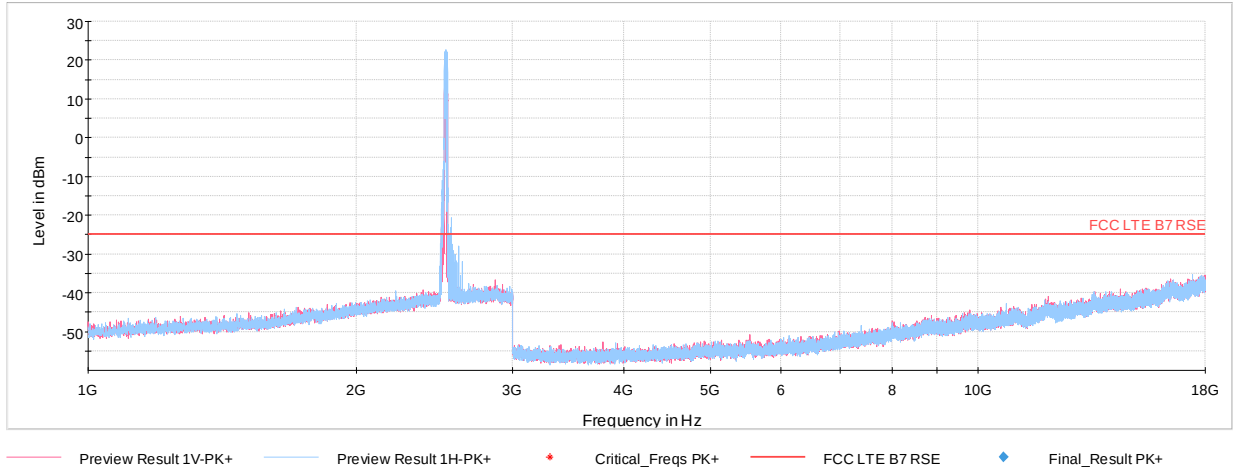
FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 373 of 398

OPERATING FREQUENCY (PCC): 2560.00 MHz
 OPERATING FREQUENCY (SCC): 2540.20
 CHANNEL (PCC): 21350
 CHANNEL (SCC): 21152
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

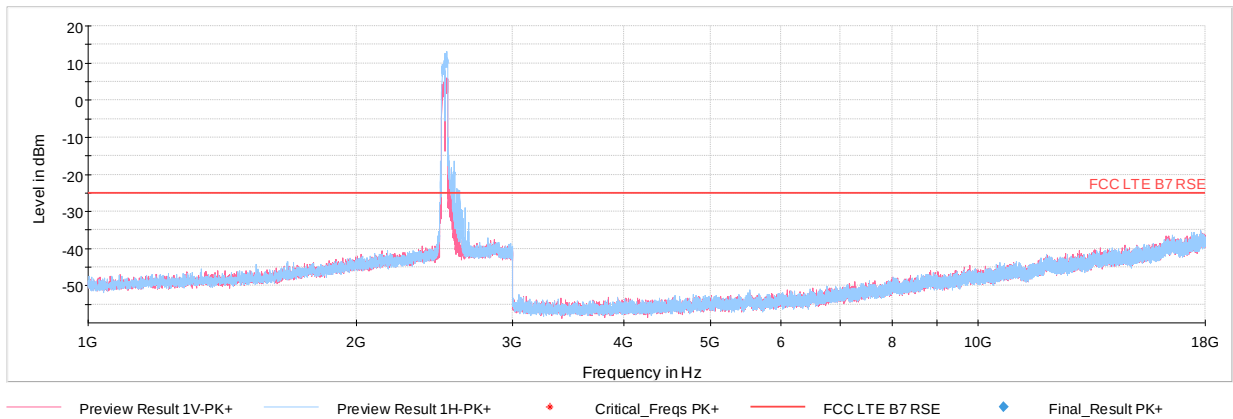
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-62.04	7.96	-54.08	-54.1
7680.00	H	-	-	-59.67	9.63	-50.04	-50.0
10240.00	H	-	-	-56.63	10.40	-46.22	-46.2

Table 7-147. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

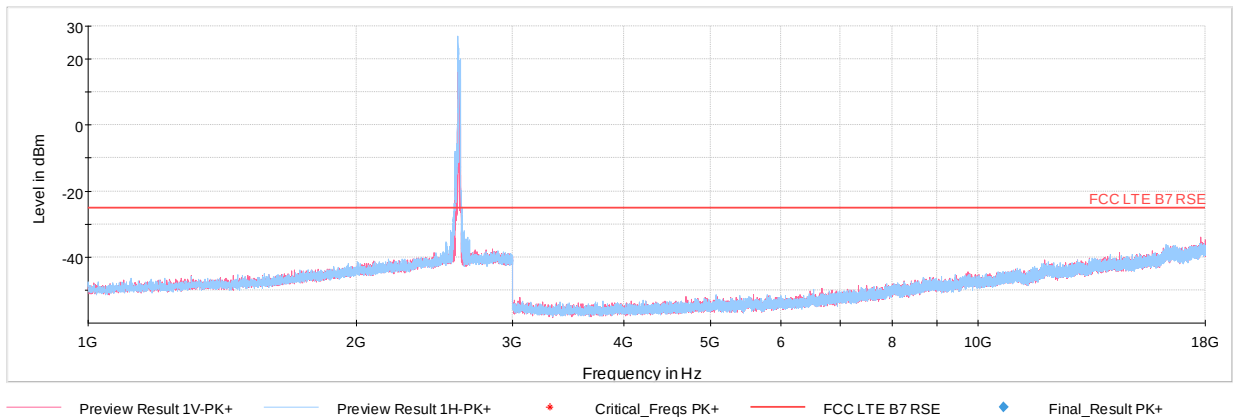
FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 374 of 398



Plot 7-465. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)

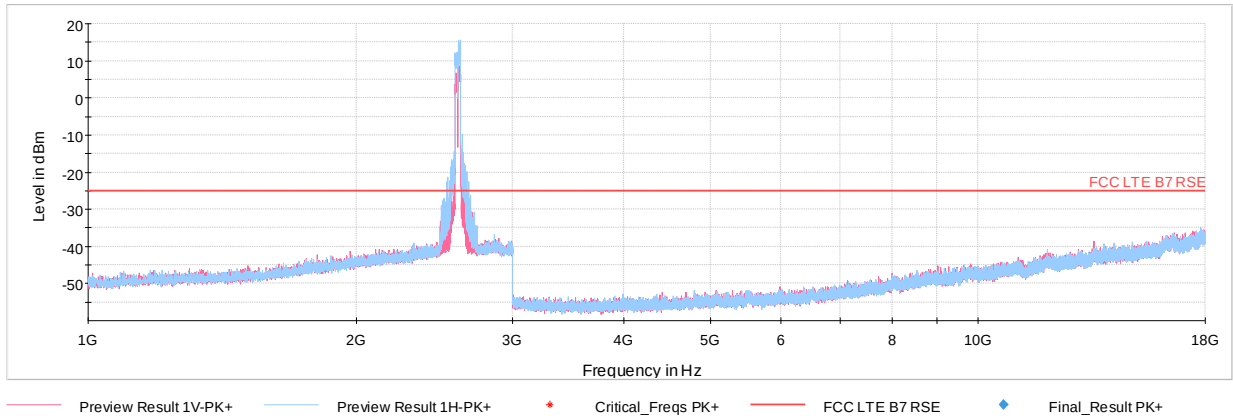


Plot 7-466. Radiated Spurious Plot (ULCA B41 PCC: RB 100 Offset 0, SCC: RB 100 Offset 0 – Low Channel)

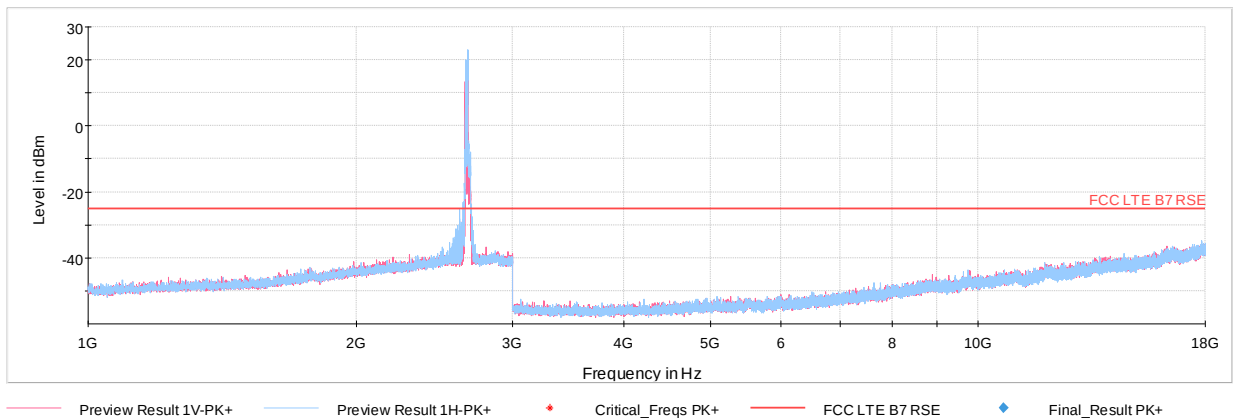


Plot 7-467. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

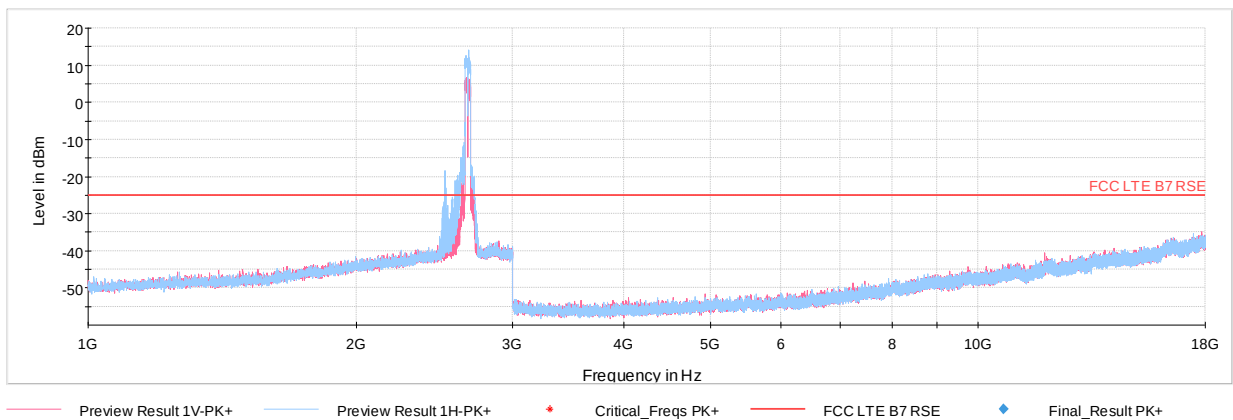
FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-468. Radiated Spurious Plot (ULCA B41 PCC: RB 100 Offset 0, SCC: RB 100 Offset 0 – Mid Channel)



Plot 7-469. Radiated Spurious Plot (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)



Plot 7-470. Radiated Spurious Plot (ULCA B41 PCC: RB 100 Offset 0, SCC: RB 100 Offset 0 – High Channel)

FCC ID: BCGA2013	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 376 of 398

OPERATING FREQUENCY (PCC): 2506.00 MHz
 OPERATING FREQUENCY (SCC): 2525.80
 CHANNEL (PCC): 39750
 CHANNEL (SCC): 39948
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-51.32	8.18	-43.14	-43.1
7518.00	H	-	-	-47.58	9.69	-37.89	-37.9
10024.00	H	-	-	-44.57	10.49	-34.08	-34.1

Table 7-148. 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
 CHANNEL (PCC): 40620
 CHANNEL (SCC): 40818
 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]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5330.80	H	-	-	-51.34	7.93	-43.41	-43.4
7996.20	H	-	-	-49.17	10.09	-39.08	-39.1
10661.60	H	-	-	-46.99	10.52	-36.47	-36.5

Table 7-149. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 377 of 398

OPERATING FREQUENCY (PCC): 2680.00 MHz
 OPERATING FREQUENCY (SCC): 2660.20
 CHANNEL (PCC): 41490
 CHANNEL (SCC): 41292
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-49.74	8.01	-41.72	-41.7
8040.00	H	-	-	-46.96	10.07	-36.89	-36.9
10720.00	H	-	-	-42.71	10.64	-32.07	-32.1

Table 7-150. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050012-03.BCG	Test Dates: 07/27/2018-10/16/2018	EUT Type: Tablet Device	Page 378 of 398

7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

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

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

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24, Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI/TIA-603-E-2016

Test Settings

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

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

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

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Band 71 Frequency Stability Measurements

OPERATING FREQUENCY: 680,500,000 Hz
 CHANNEL: 133297
 REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	680,500,011	11	0.0000016
100 %		- 20	680,500,014	14	0.0000021
100 %		- 10	680,500,013	13	0.0000019
100 %		0	680,500,013	13	0.0000019
100 %		+ 10	680,499,958	-42	-0.0000062
100 %		+ 20	680,500,029	29	0.0000043
100 %		+ 30	680,500,021	21	0.0000031
100 %		+ 40	680,500,008	8	0.0000012
100 %		+ 50	680,500,020	20	0.0000029
BATT. ENDPOINT	3.40	+ 20	680,500,021	21	0.0000031

Table 7-151. Frequency Stability Data (Band 71)

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 71 Frequency Stability Measurements

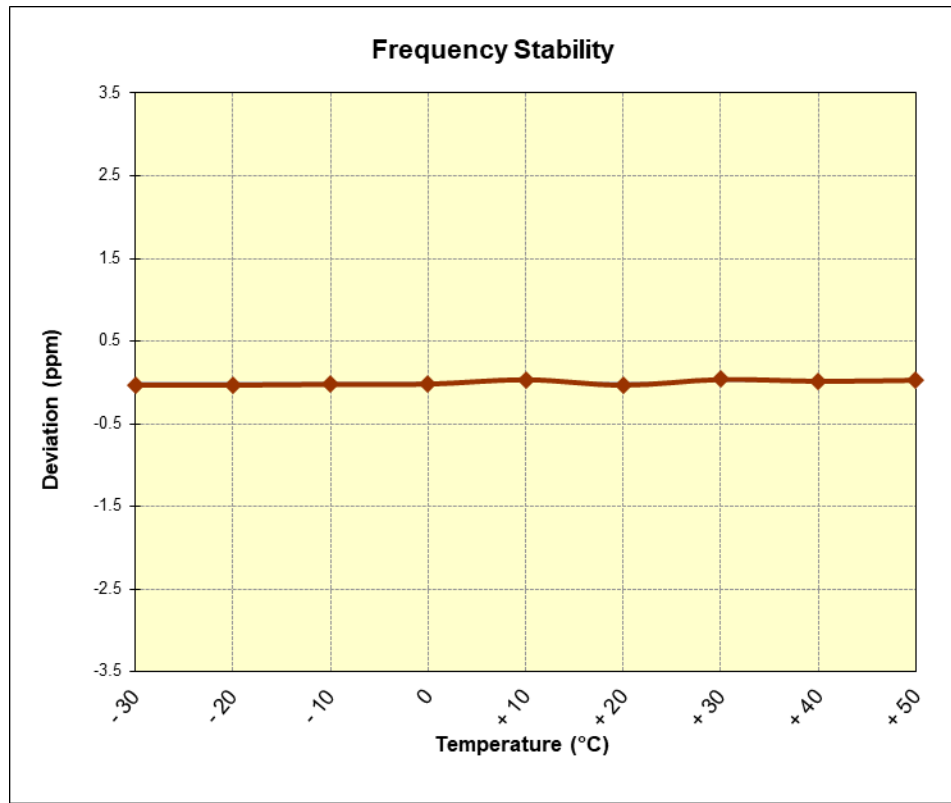


Figure 7-9. Frequency Stability Graph (Band 71)

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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	707,499,977	-23	-0.0000033
100 %		- 20	707,499,976	-24	-0.0000034
100 %		- 10	707,499,983	-17	-0.0000024
100 %		0	707,499,985	-15	-0.0000021
100 %		+ 10	707,500,025	25	0.0000035
100 %		+ 20	707,499,976	-24	-0.0000034
100 %		+ 30	707,500,026	26	0.0000037
100 %		+ 40	707,500,010	10	0.0000014
100 %		+ 50	707,500,019	19	0.0000027
BATT. ENDPOINT	3.40	+ 20	707,500,007	7	0.0000010

Table 7-152. 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

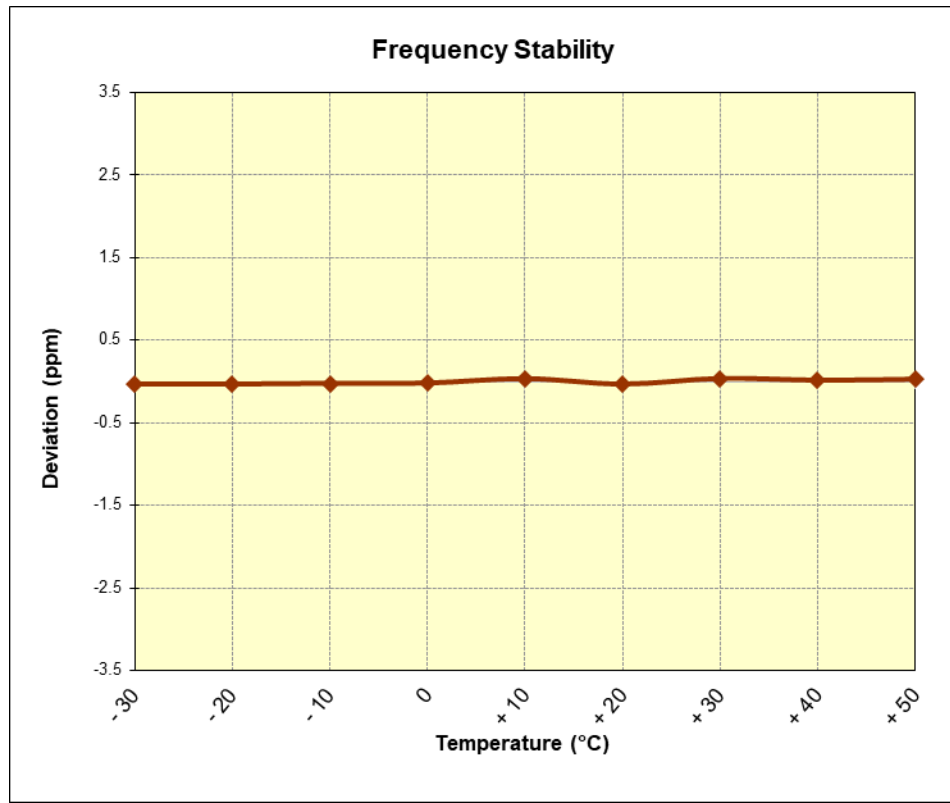


Figure 7-10. Frequency Stability Graph (Band 12/17)

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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	781,999,983	-17	-0.0000022
100 %		- 20	781,999,975	-25	-0.0000032
100 %		- 10	781,999,968	-32	-0.0000041
100 %		0	782,000,024	24	0.0000031
100 %		+ 10	782,000,042	42	0.0000054
100 %		+ 20	781,999,953	-47	-0.0000060
100 %		+ 30	782,000,021	21	0.0000027
100 %		+ 40	782,000,009	9	0.0000012
100 %		+ 50	782,000,027	27	0.0000035
BATT. ENDPOINT	3.40	+ 20	782,000,015	15	0.0000019

Table 7-153. 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.

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Band 13 Frequency Stability Measurements

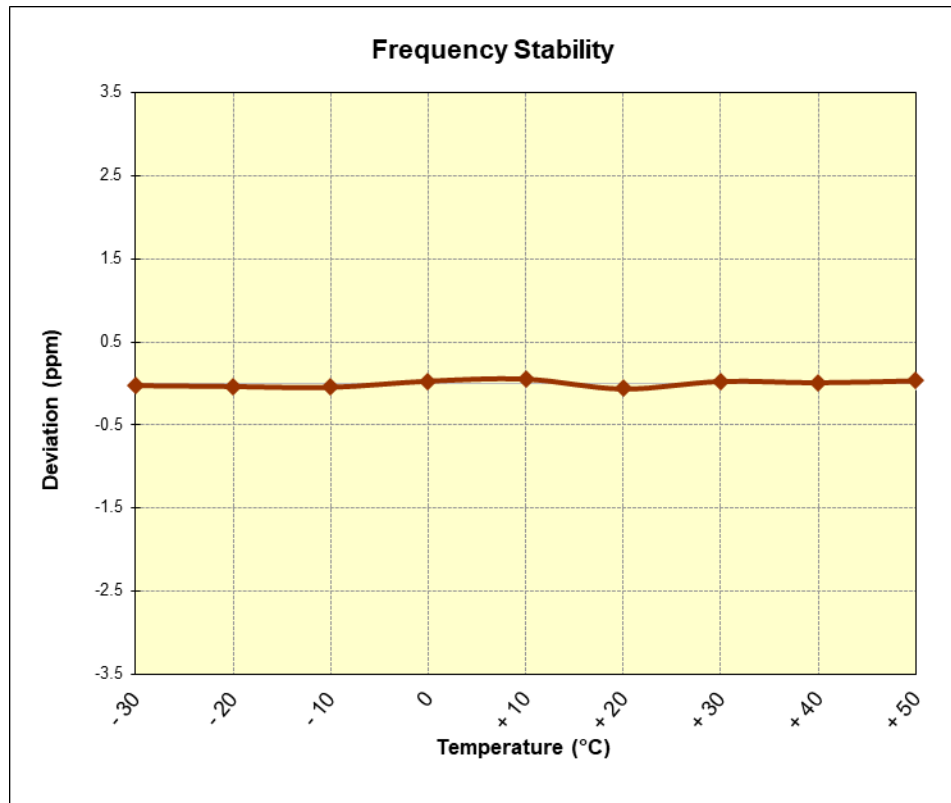


Figure 7-11. Frequency Stability Graph (Band 13)

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Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz
 CHANNEL: 20525
 REFERENCE VOLTAGE: 3.80 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,499,973	-27	-0.0000032
100 %		- 20	836,500,020	20	0.0000024
100 %		- 10	836,499,962	-38	-0.0000045
100 %		0	836,499,960	-40	-0.0000048
100 %		+ 10	836,500,032	32	0.0000038
100 %		+ 20	836,500,025	25	0.0000030
100 %		+ 30	836,500,038	38	0.0000045
100 %		+ 40	836,500,006	6	0.0000007
100 %		+ 50	836,500,032	32	0.0000038
BATT. ENDPOINT	3.40	+ 20	836,500,005	5	0.0000006

Table 7-154. Frequency Stability Data (Band 26/5)

FCC ID: BCGA2013	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

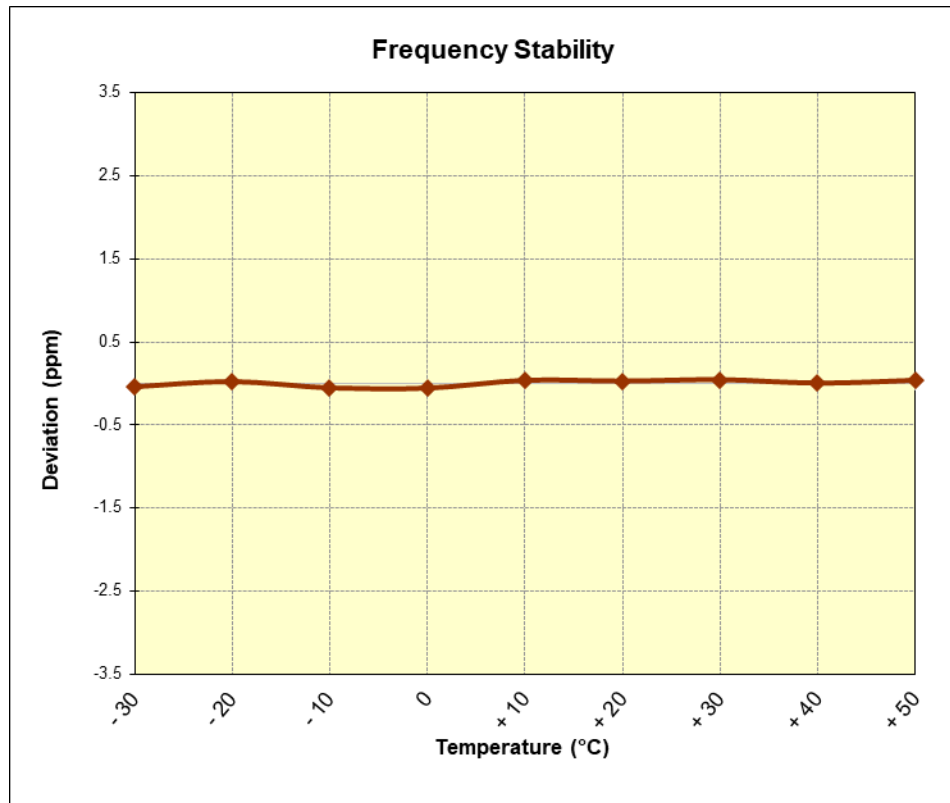


Figure 7-12. Frequency Stability Graph (Band 26/5)

FCC ID: BCGA2013	 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	1,745,000,035	35	0.0000020
100 %		- 20	1,744,999,962	-38	-0.0000022
100 %		- 10	1,745,000,035	35	0.0000020
100 %		0	1,744,999,964	-36	-0.0000021
100 %		+ 10	1,745,000,037	37	0.0000021
100 %		+ 20	1,744,999,955	-45	-0.0000026
100 %		+ 30	1,745,000,054	54	0.0000031
100 %		+ 40	1,745,000,021	21	0.0000012
100 %		+ 50	1,744,999,979	-21	-0.0000012
BATT. ENDPOINT	3.40	+ 20	1,745,000,050	50	0.0000029

Table 7-155. 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

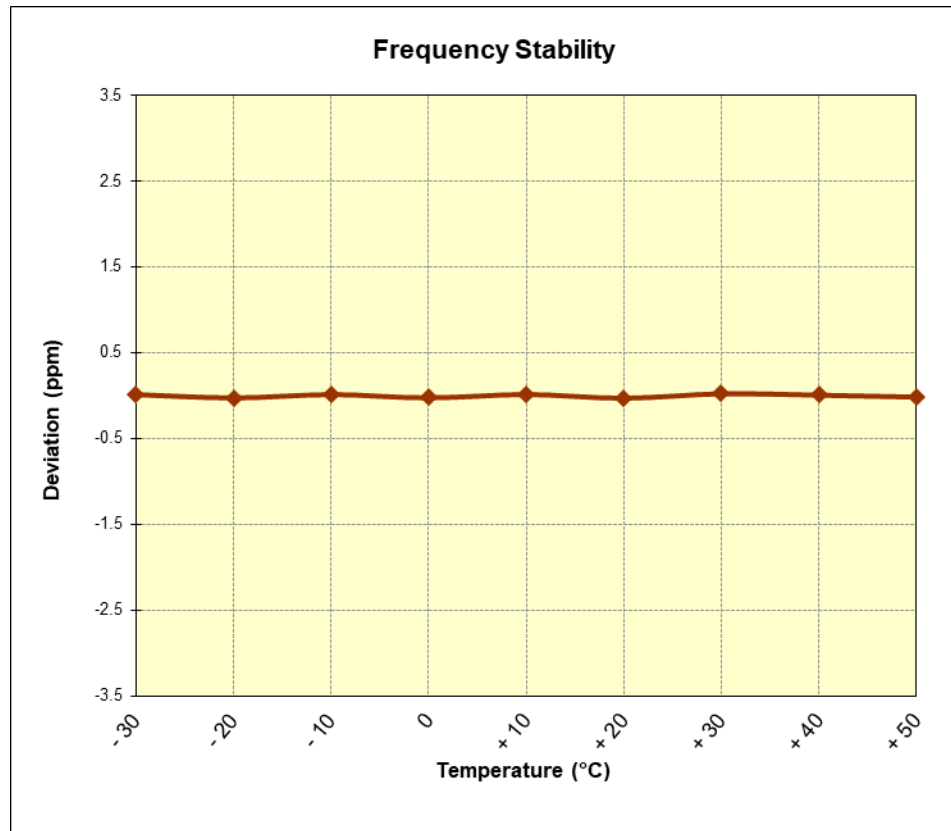


Figure 7-13. Frequency Stability Graph (Band 66/4)

FCC ID: BCGA2013	 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

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,882,500,040	40	0.0000021
100 %		- 20	1,882,500,049	49	0.0000026
100 %		- 10	1,882,499,945	-55	-0.0000029
100 %		0	1,882,499,955	-45	-0.0000024
100 %		+ 10	1,882,499,953	-47	-0.0000025
100 %		+ 20	1,882,500,056	56	0.0000030
100 %		+ 30	1,882,499,910	-90	-0.0000048
100 %		+ 40	1,882,499,980	-20	-0.0000011
100 %		+ 50	1,882,499,978	-22	-0.0000012
BATT. ENDPOINT	3.40	+ 20	1,882,500,051	51	0.0000027

Table 7-156. Frequency Stability Data (Band 25/2)

Note:

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

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Band 25/2 Frequency Stability Measurements

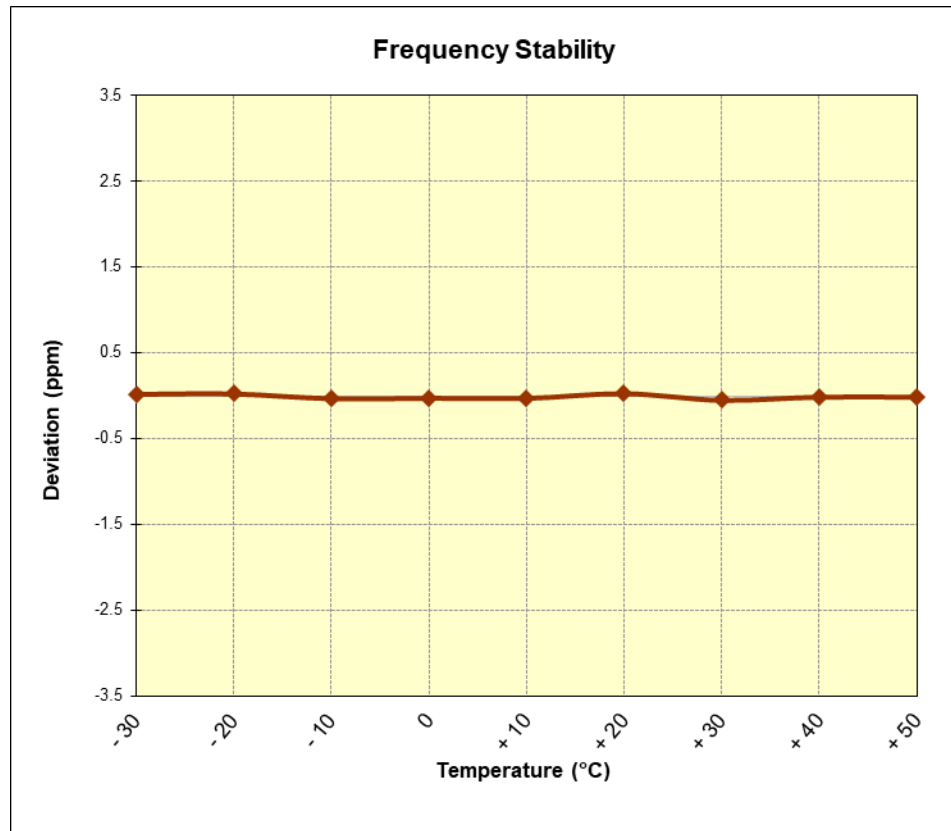


Figure 7-14. Frequency Stability Graph (Band 25/2)

FCC ID: BCGA2013	 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	2,310,000,043	43	0.0000019
100 %		- 20	2,310,000,051	51	0.0000022
100 %		- 10	2,309,999,946	-54	-0.0000023
100 %		0	2,310,000,049	49	0.0000021
100 %		+ 10	2,310,000,055	55	0.0000024
100 %		+ 20	2,309,999,937	-63	-0.0000027
100 %		+ 30	2,310,000,052	52	0.0000023
100 %		+ 40	2,309,999,971	-29	-0.0000013
100 %		+ 50	2,310,000,028	28	0.0000012
BATT. ENDPOINT	3.40	+ 20	2,310,000,047	47	0.0000020

Table 7-157. 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

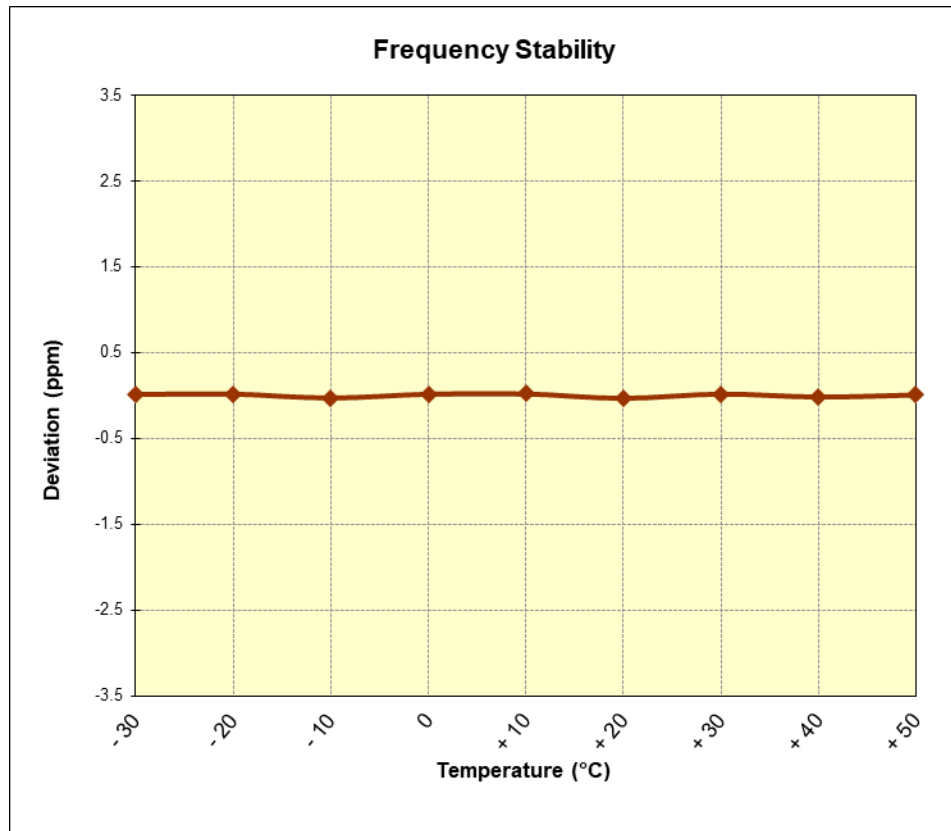


Figure 7-15. Frequency Stability Graph (Band 30)

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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	2,535,000,046	46	0.0000018
100 %		- 20	2,534,999,953	-47	-0.0000019
100 %		- 10	2,535,000,041	41	0.0000016
100 %		0	2,535,000,045	45	0.0000018
100 %		+ 10	2,534,999,956	-44	-0.0000017
100 %		+ 20	2,535,000,052	52	0.0000021
100 %		+ 30	2,535,000,090	90	0.0000036
100 %		+ 40	2,534,999,970	-30	-0.0000012
100 %		+ 50	2,534,999,970	-30	-0.0000012
BATT. ENDPOINT	3.40	+ 20	2,534,999,935	-65	-0.0000026

Table 7-158. 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

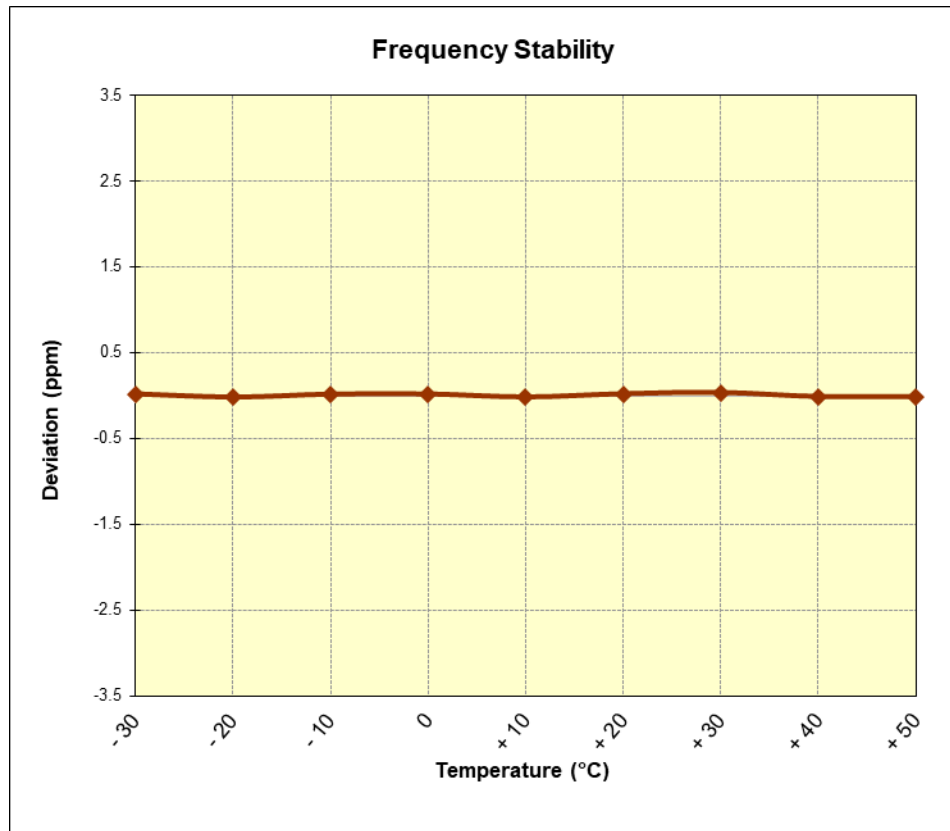


Figure 7-16. Frequency Stability Graph (Band 7)

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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	2,593,000,051	51	0.0000020
100 %		- 20	2,593,000,041	41	0.0000016
100 %		- 10	2,593,000,038	38	0.0000015
100 %		0	2,592,999,950	-50	-0.0000019
100 %		+ 10	2,592,999,952	-48	-0.0000019
100 %		+ 20	2,592,999,932	-68	-0.0000026
100 %		+ 30	2,592,999,918	-82	-0.0000032
100 %		+ 40	2,592,999,970	-30	-0.0000012
100 %		+ 50	2,592,999,967	-33	-0.0000013
BATT. ENDPOINT	3.40	+ 20	2,593,000,048	48	0.0000019

Table 7-159. 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

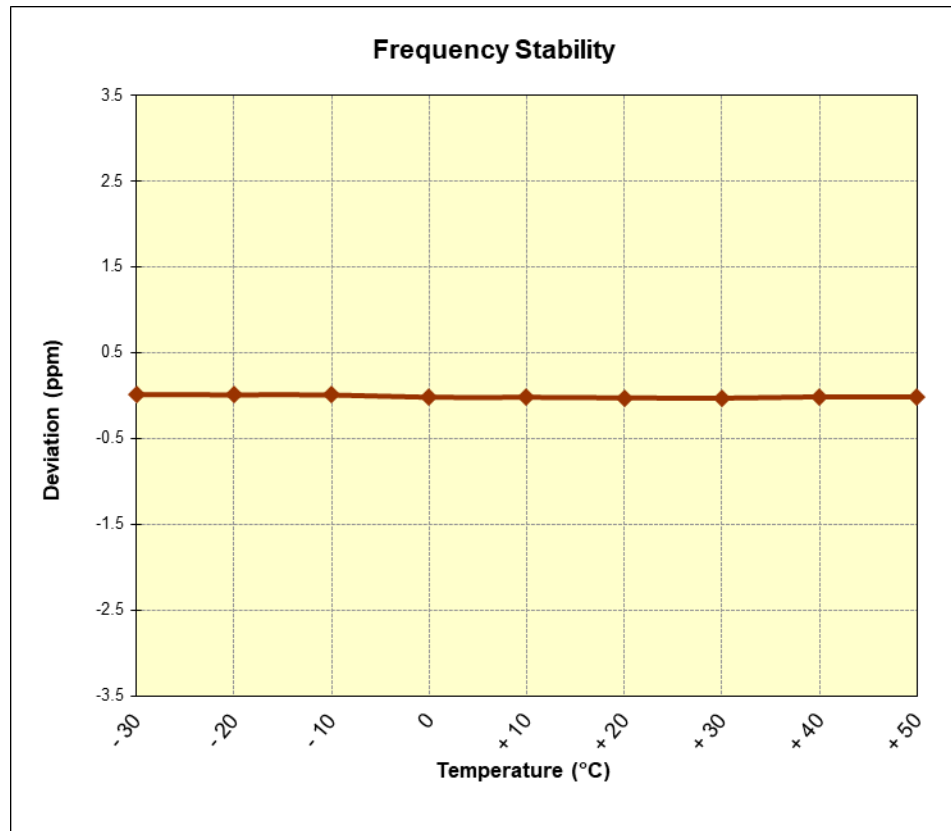


Figure 7-17. Frequency Stability Graph (Band 41)

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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: BCGA2013** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

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