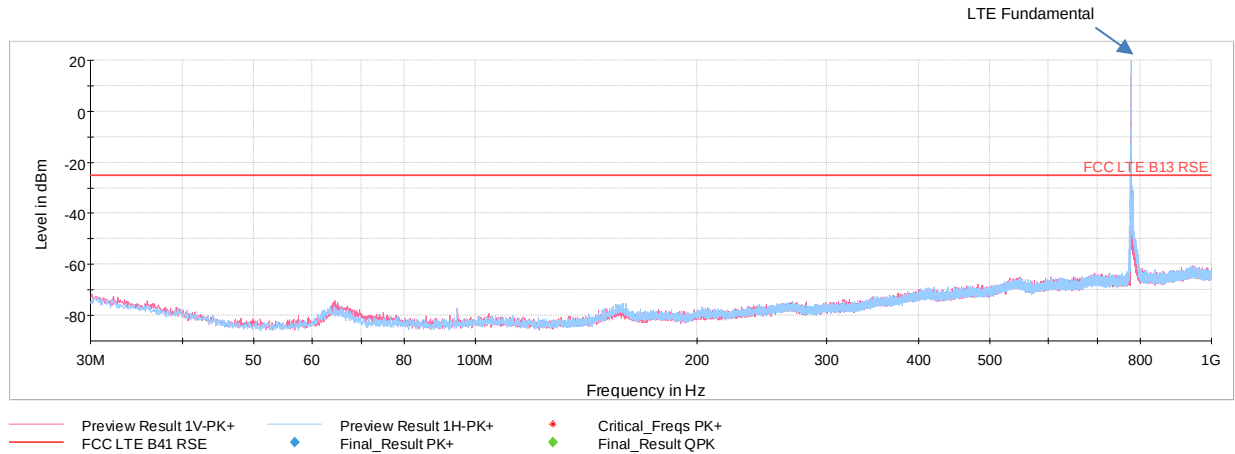
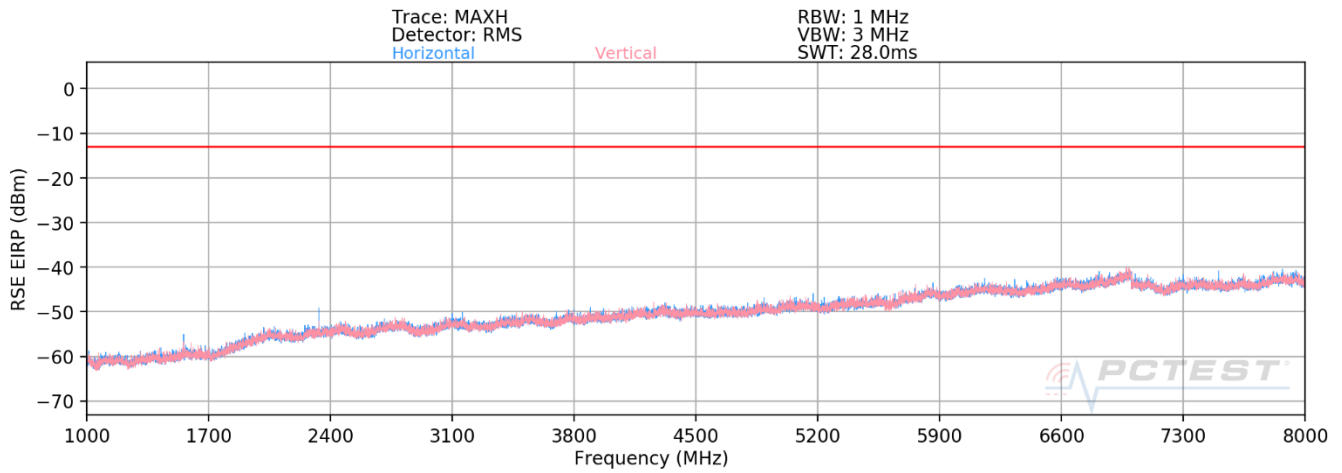


Band 13



Plot 7-409. Radiated Spurious Emissions below 1GHz (Band 13)



Plot 7-410. Radiated Spurious Emissions above 1GHz (Band 13)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 296 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	H	253	332	-54.70	3.95	-50.75	-37.8
3118.00	H	-	-	-67.66	6.09	-61.57	-48.6
3897.50	H	-	-	-68.80	7.65	-61.15	-48.2
4677.00	H	-	-	-68.42	8.55	-59.88	-46.9

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	H	118	27	-65.08	3.97	-61.11	-48.1
3128.00	H	-	-	-68.30	6.13	-62.17	-49.2
3910.00	H	-	-	-68.89	7.67	-61.22	-48.2
4692.00	H	-	-	-68.47	8.57	-59.90	-46.9

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 297 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	H	204	37	-63.45	3.94	-59.51	-46.5
3138.00	H	-	-	-68.25	6.17	-62.08	-49.1
3922.50	H	-	-	-68.75	7.69	-61.06	-48.1
4707.00	H	-	-	-68.79	8.59	-60.20	-47.2

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

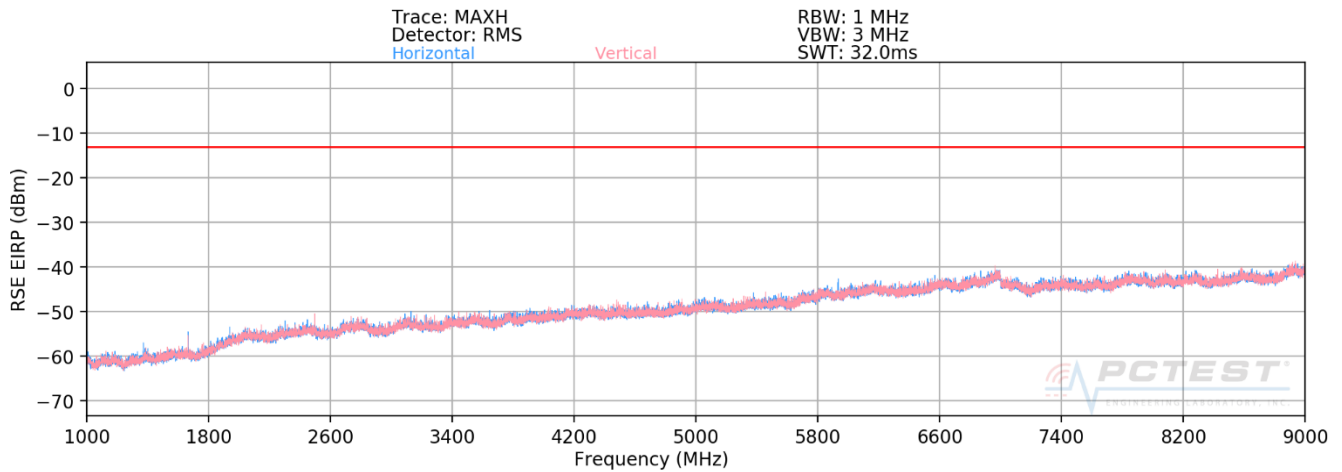
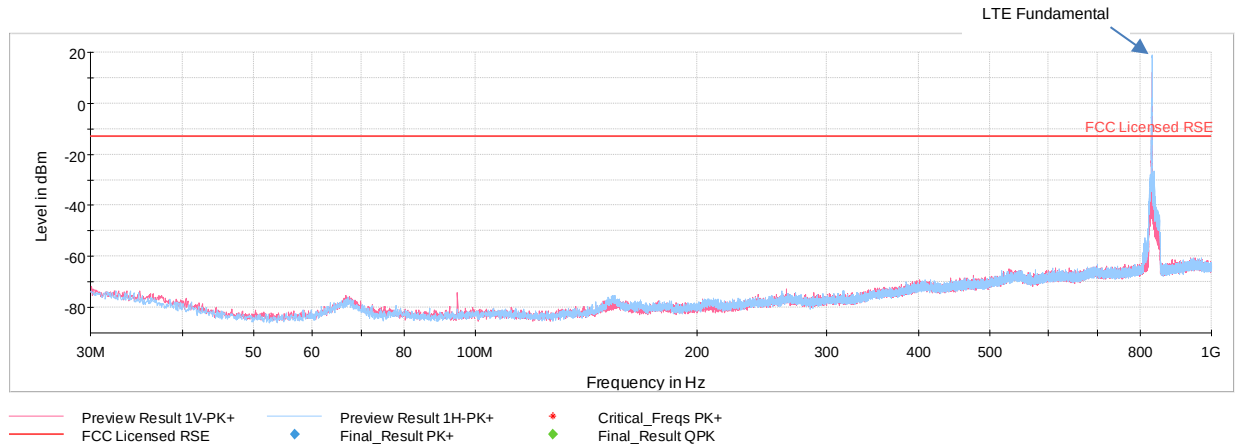
MODULATION SIGNAL: QPSK
BANDWIDTH: 5.00 MHz
DISTANCE: 3 meters
NARROWBAND EMISSION LIMIT: -50 dBm
WIDEBAND EMISSION LIMIT: -40 dBm/MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	H	279	238	-68.13	3.73	-64.40	-24.4
1564.00	H	277	327	-70.42	3.71	-66.71	-26.7
1569.00	H	286	224	-69.25	3.68	-65.57	-25.6

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

FCC ID: BCGA2072	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 298 of 389

Band 26/5



FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 299 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	172	184	-68.68	3.80	-64.87	-51.9
2487.00	H	181	156	-57.41	4.34	-53.07	-40.1
3316.00	H	-	-	-68.70	6.51	-62.19	-49.2
4145.00	H	-	-	-68.58	7.88	-60.70	-47.7
4974.00	H	-	-	-68.22	8.83	-59.38	-46.4

Table 7-85. Radiated Spurious Data (Band 26/5 - Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	183	184	-61.99	3.69	-58.29	-45.3
2509.50	H	162	150	-61.74	4.20	-57.55	-44.5
3346.00	H	-	-	-68.45	6.55	-61.89	-48.9
4182.50	H	-	-	-68.30	7.97	-60.33	-47.3
5019.00	H	-	-	-68.12	8.86	-59.26	-46.3

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 300 of 389

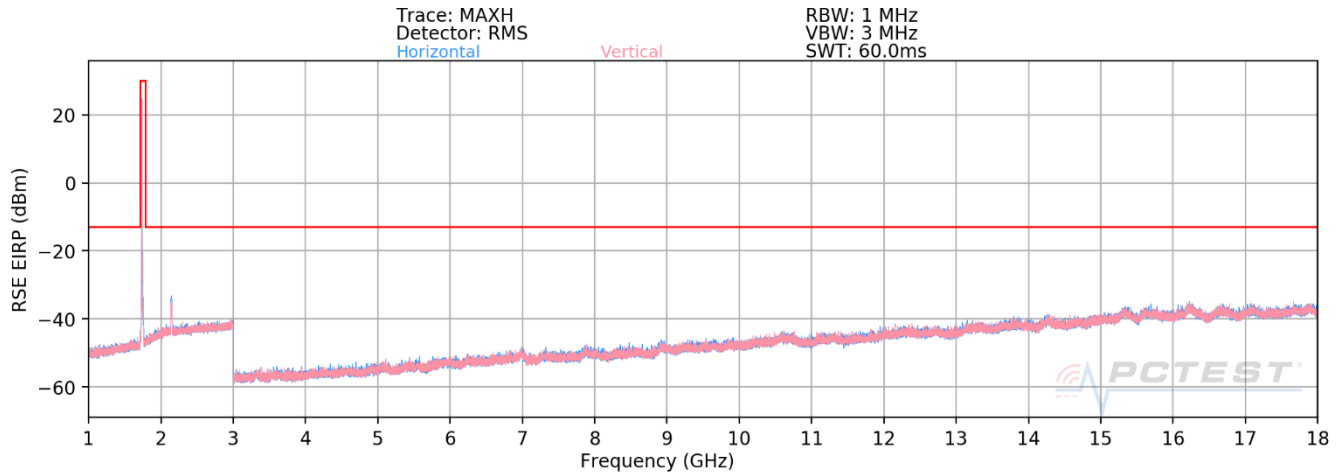
OPERATING FREQUENCY: 844.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	100	166	-53.75	3.70	-50.05	-37.0
2532.00	H	265	166	-58.85	4.36	-54.49	-41.5
3376.00	H	-	-	-67.94	6.60	-61.35	-48.3
4220.00	H	-	-	-68.32	8.03	-60.29	-47.3
5064.00	H	-	-	-68.65	8.93	-59.72	-46.7

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

FCC ID: BCGA2072	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 301 of 389

Band 66/4



Plot 7-413. Radiated Spurious Emissions above 1GHz (Band 66/4)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-68.50	6.69	-61.81	-48.8
5160.00	H	121	49	-58.66	9.08	-49.58	-36.6
6880.00	H	-	-	-65.35	9.54	-55.80	-42.8
8600.00	H	-	-	-64.51	9.65	-54.85	-41.9
10320.00	H	-	-	-61.70	9.56	-52.14	-39.1

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

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 302 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-68.84	6.79	-62.06	-49.1
5235.00	H	-	-	-68.82	9.16	-59.66	-46.7
6980.00	H	-	-	-64.45	9.49	-54.96	-42.0

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

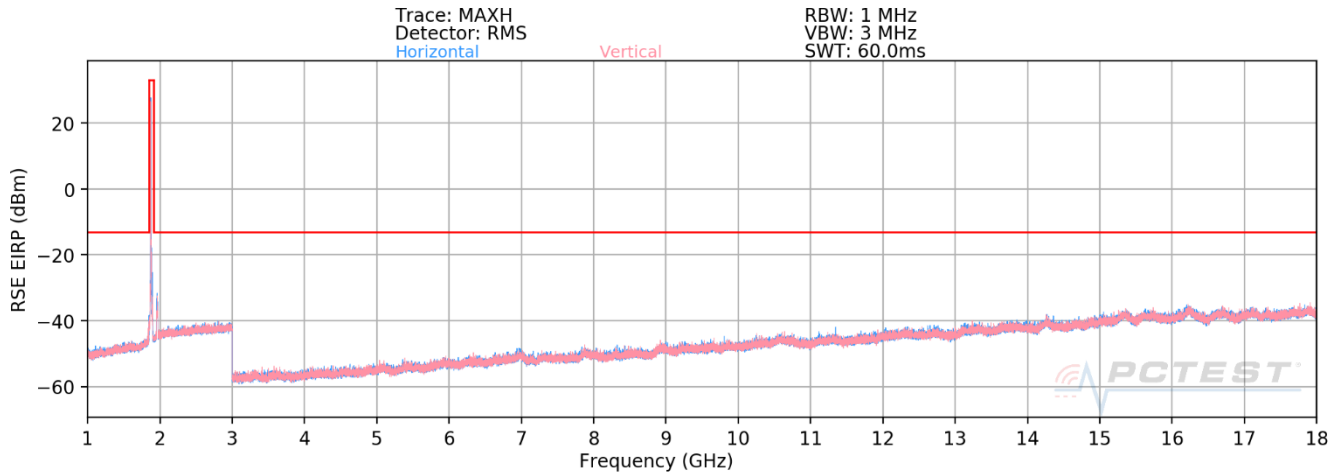
OPERATING FREQUENCY: 1770.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-67.98	6.80	-61.18	-48.2
5310.00	H	-	-	-68.40	9.11	-59.28	-46.3
7080.00	H	-	-	-66.48	9.46	-57.03	-44.0

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 303 of 389

Band 25/2



Plot 7-414. Radiated Spurious Emissions above 1GHz (Band 25/2)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	359	159	-67.97	7.29	-60.68	-47.7
5580.00	H	-	-	-67.98	9.37	-58.61	-45.6
7440.00	H	-	-	-65.46	9.44	-56.02	-43.0
9300.00	H	-	-	-62.83	9.53	-53.30	-40.3

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

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		Page 304 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	351	148	-68.09	7.30	-60.79	-47.8
5647.50	H	-	-	-68.82	9.37	-59.45	-46.5
7530.00	H	-	-	-66.01	9.44	-56.56	-43.6
9412.50	H	-	-	-62.62	9.56	-53.07	-40.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-68.55	7.37	-61.17	-48.2
5715.00	H	-	-	-68.12	9.38	-58.74	-45.7
7620.00	H	-	-	-65.78	9.38	-56.40	-43.4

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 305 of 389

Band 30

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	149	306	-67.50	8.42	-59.07	-19.1
6922.50	H	-	-	-65.12	9.51	-55.61	-15.6
9230.00	H	-	-	-62.45	9.54	-52.92	-12.9
11537.50	H	-	-	-60.51	9.54	-50.97	-11.0

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	H	107	312	-67.43	8.44	-59.00	-19.0
6930.00	H	-	-	-62.37	9.51	-52.87	-12.9
9240.00	H	-	-	-62.52	9.54	-52.99	-13.0
11550.00	H	-	-	-60.58	9.56	-51.02	-11.0

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

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		Page 306 of 389

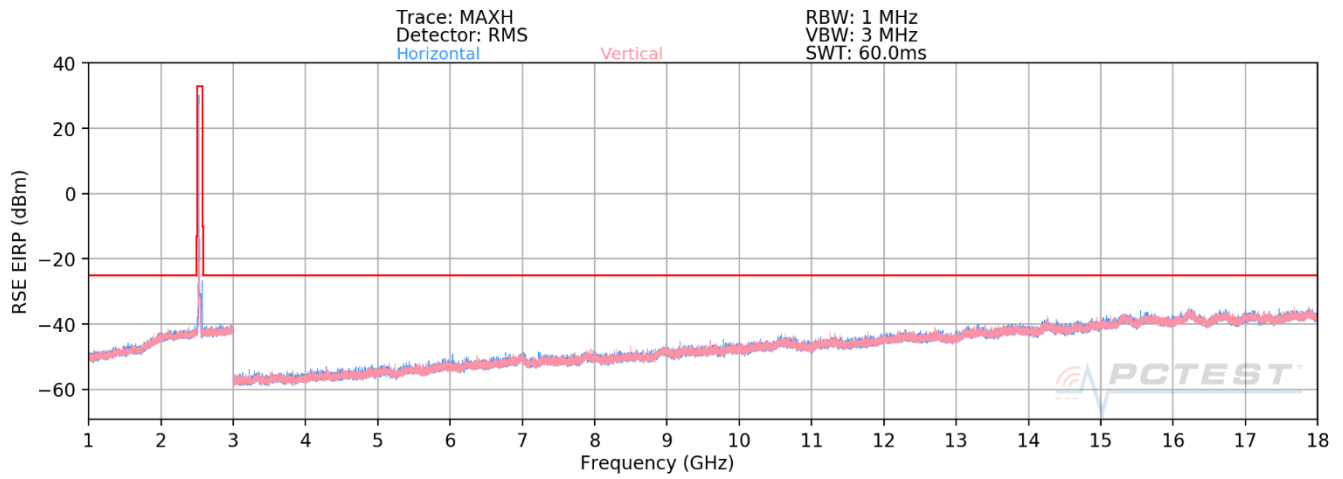
OPERATING FREQUENCY: 2312.50 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 5.0 MHz
 DISTANCE: 3 meters
 LIMIT: -40 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	H	111	294	-67.66	8.45	-59.21	-19.2
6937.50	H	-	-	-64.77	9.50	-55.26	-15.3
9250.00	H	-	-	-62.72	9.54	-53.18	-13.2
11562.50	H	-	-	-60.37	9.55	-50.81	-10.8

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

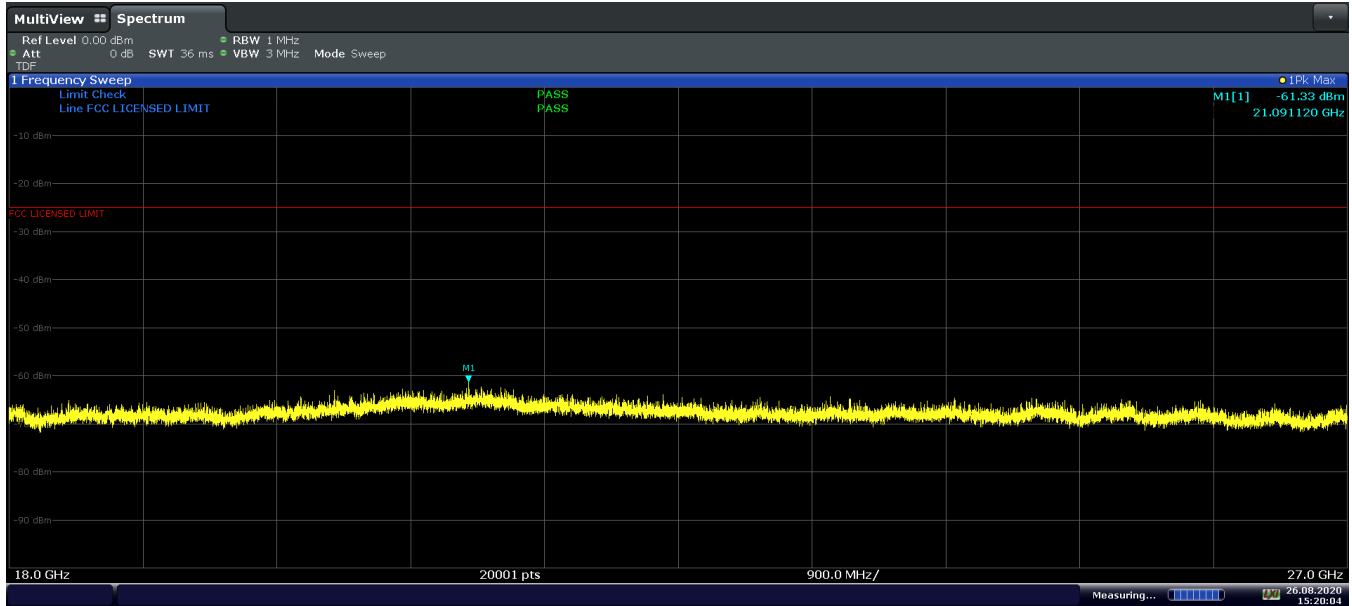
FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 307 of 389

Band 7



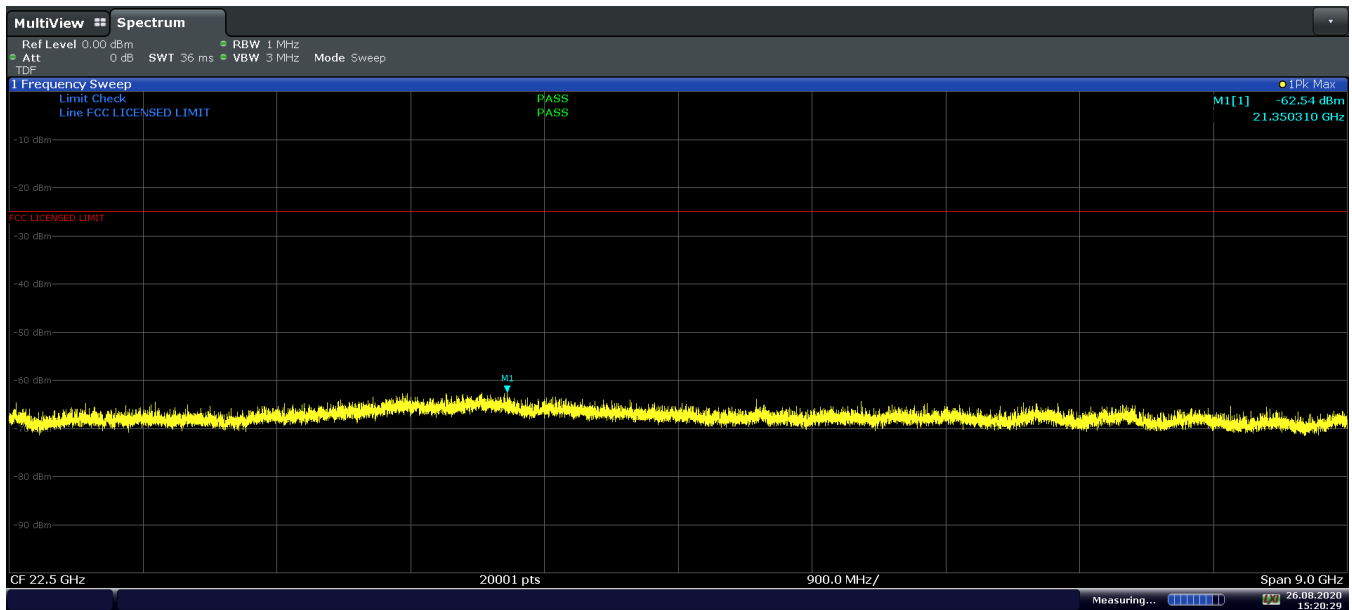
Plot 7-415. Radiated Spurious Emissions 1GHz - 18GHz (Band 7)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 308 of 389



15:20:05 26.08.2020

Plot 7-416. Radiated Spurious Emissions Above 18GHz (Band 7, Pol H)



15:20:30 26.08.2020

Plot 7-417. Radiated Spurious Emissions Above 18GHz (Band 7, Pol. V)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 309 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	H	-	-	-68.10	8.86	-59.24	-34.2
7530.00	H	-	-	-65.83	9.44	-56.38	-31.4
10040.00	H	-	-	-62.04	9.55	-52.48	-27.5

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-67.65	8.94	-58.71	-33.7
7605.00	H	-	-	-65.73	9.37	-56.36	-31.4
10140.00	H	-	-	-61.65	9.59	-52.06	-27.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-68.05	9.01	-59.04	-34.0
7680.00	H	-	-	-65.03	9.40	-55.62	-30.6
10240.00	H	-	-	-61.67	9.56	-52.11	-27.1

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020 EUT Type: Tablet Device	Page 310 of 389

Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	-	-	-61.62	8.85	-52.77	-27.8
7518.00	V	-	-	-59.93	9.44	-50.49	-25.5
10024.00	V	-	-	-58.21	9.54	-48.67	-23.7

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	-	-	-61.39	9.13	-52.26	-27.3
7779.00	V	-	-	-59.98	9.38	-50.60	-25.6
10372.00	V	-	-	-58.32	9.52	-48.79	-23.8

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 311 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-61.17	9.13	-52.05	-27.0
8040.00	V	-	-	-60.53	9.41	-51.12	-26.1
10720.00	V	-	-	-56.59	9.49	-47.09	-22.1

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 312 of 389

7.9.2 Antenna 3b Radiated Spurious Emissions Measurements

Band 12/17

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1408.00	H	-	-	-70.51	3.20	-67.31	-54.3
2112.00	H	150	91	-63.26	3.13	-60.14	-47.1
2816.00	H	-	-	-67.20	5.31	-61.88	-48.9
3520.00	H	-	-	-67.70	6.80	-60.89	-47.9
4224.00	H	-	-	-68.46	8.03	-60.43	-47.4

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1415.00	H	249	338	-70.49	3.26	-67.23	-54.2
2122.50	H	290	150	-66.72	3.18	-63.54	-50.5
2830.00	H	-	-	-67.21	5.30	-61.91	-48.9
3537.50	H	-	-	-67.96	6.80	-61.17	-48.2
4245.00	H	-	-	-68.47	8.05	-60.41	-47.4

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

FCC ID: BCGA2072	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 313 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1422.00	H	258	168	-66.00	3.35	-62.65	-49.6
2133.00	H	293	306	-62.00	3.23	-58.77	-45.8
2844.00	H	-	-	-67.30	5.37	-61.93	-48.9
3555.00	H	-	-	-67.90	6.81	-61.09	-48.1
4266.00	H	-	-	-68.32	8.05	-60.27	-47.3

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 314 of 389

Band 13

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2338.50	V	150	31	-57.12	3.95	-53.17	-40.2
3118.00	V	-	-	-67.53	6.09	-61.44	-48.4
3897.50	V	-	-	-68.81	7.65	-61.16	-48.2
4677.00	V	-	-	-68.72	8.55	-60.18	-47.2

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2346.00	V	150	348	-64.52	3.97	-60.55	-47.5
3128.00	V	-	-	-68.15	6.13	-62.02	-49.0
3910.00	V	-	-	-68.90	7.67	-61.23	-48.2
4692.00	V	-	-	-68.70	8.57	-60.13	-47.1

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 315 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
2353.50	V	114	337	-57.51	3.94	-53.57	-40.6
3138.00	V	-	-	-68.13	6.17	-61.96	-49.0
3922.50	V	-	-	-68.78	7.69	-61.09	-48.1
4707.00	V	-	-	-68.59	8.59	-60.00	-47.0

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	H	220	20	-70.54	3.73	-66.81	-26.8
1564.00	H	223	54	-69.25	3.71	-65.54	-25.5
1569.00	H	249	20	-68.77	3.68	-65.09	-25.1

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

FCC ID: BCGA2072	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 316 of 389

Band 26/5

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	347	215	-50.54	3.80	-46.73	-33.7
2487.00	H	125	282	-60.30	4.34	-55.96	-43.0
3316.00	H	107	49	-56.61	6.51	-50.10	-37.1
4145.00	H	-	-	-68.66	7.88	-60.78	-47.8
4974.00	H	210	302	-63.30	8.83	-54.46	-41.5

Table 7-110. Radiated Spurious Data (Band 26/5 - Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.00	H	103	13	-67.15	3.69	-63.45	-50.5
2509.50	H	121	141	-56.53	4.20	-52.34	-39.3
3346.00	H	-	-	-68.23	6.55	-61.67	-48.7
4182.50	H	-	-	-68.20	7.97	-60.23	-47.2
5019.00	H	-	-	-68.09	8.86	-59.23	-46.2

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 317 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	352	212	-48.84	3.70	-45.14	-32.1
2532.00	V	359	273	-61.01	4.36	-56.65	-43.7
3376.00	V	-	-	-58.17	6.60	-51.58	-38.6
4220.00	V	-	-	-57.73	8.03	-49.70	-36.7
5064.00	V	-	-	-64.59	8.93	-55.66	-42.7

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 318 of 389

7.9.3 Antenna 2a Radiated Spurious Emissions Measurements

Band 66/4

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	319	334	-67.46	6.69	-60.77	-47.8
5160.00	H	356	334	-58.50	9.08	-49.42	-36.4
6880.00	H	-	-	-65.42	9.54	-55.87	-42.9
8600.00	H	-	-	-64.39	9.65	-54.73	-41.7
10320.00	H	-	-	-61.66	9.56	-52.10	-39.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	347	339	-66.56	6.79	-59.78	-46.8
5235.00	H	369	326	-61.73	9.16	-52.57	-39.6
6980.00	H	-	-	-64.61	9.49	-55.12	-42.1
8725.00	H	-	-	-64.54	9.63	-54.91	-41.9
10470.00	H	-	-	-60.68	9.46	-51.22	-38.2

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

FCC ID: BCGA2072	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 319 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	268	337	-65.97	6.80	-59.17	-46.2
5310.00	H	369	355	-65.92	9.11	-56.80	-43.8
7080.00	H	-	-	-66.26	9.46	-56.81	-43.8
8850.00	H	-	-	-64.64	9.58	-55.06	-42.1
10620.00	H	-	-	-60.64	9.42	-51.23	-38.2

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 320 of 389

Band 25/2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	264	95	-67.01	7.29	-59.72	-46.7
5580.00	H	-	-	-67.37	9.37	-58.00	-45.0
7440.00	H	-	-	-65.60	9.44	-56.16	-43.2
9300.00	H	-	-	-62.82	9.53	-53.29	-40.3

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-68.21	7.30	-60.91	-47.9
5647.50	H	-	-	-68.72	9.37	-59.35	-46.4
7530.00	H	-	-	-66.00	9.44	-56.55	-43.6

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

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		Page 321 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-68.54	7.37	-61.16	-48.2
5715.00	H	-	-	-68.03	9.38	-58.65	-45.6
7620.00	H	-	-	-65.70	9.38	-56.32	-43.3

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 322 of 389

Band 30

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	H	-	-	-68.55	8.42	-60.12	-20.1
6922.50	H	-	-	-65.22	9.51	-55.71	-15.7
9230.00	H	-	-	-62.59	9.54	-53.06	-13.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	H	121	58	-64.82	8.44	-56.39	-16.4
6930.00	H	-	-	-64.93	9.51	-55.43	-15.4
9240.00	H	-	-	-62.57	9.54	-53.04	-13.0

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

FCC ID: BCGA2072	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 323 of 389

OPERATING FREQUENCY: 2312.50 MHz

 MODULATION SIGNAL: QPSK

 BANDWIDTH: 5.0 MHz

 DISTANCE: 3 meters

 LIMIT: -40 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	H	-	-	-68.58	8.45	-60.13	-20.1
6937.50	H	-	-	-64.81	9.50	-55.30	-15.3
9250.00	H	-	-	-62.83	9.54	-53.29	-13.3

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 324 of 389

Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-68.15	8.86	-59.29	-34.3
7530.00	V	-	-	-65.99	9.44	-56.54	-31.5
10040.00	V	-	-	-62.24	9.55	-52.68	-27.7

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	-	-	-67.93	8.94	-58.99	-34.0
7605.00	V	-	-	-65.88	9.37	-56.51	-31.5
10140.00	V	-	-	-61.59	9.59	-52.00	-27.0

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 325 of 389

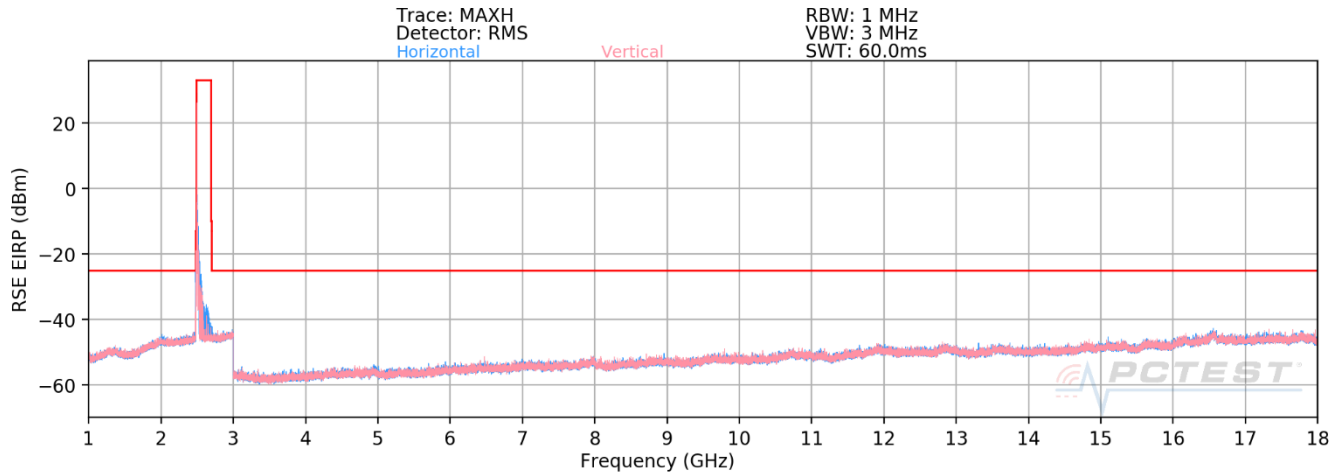
OPERATING FREQUENCY: 2560.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	-	-	-68.24	9.01	-59.23	-34.2
7680.00	V	-	-	-65.24	9.40	-55.83	-30.8
10240.00	V	-	-	-61.84	9.56	-52.28	-27.3

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

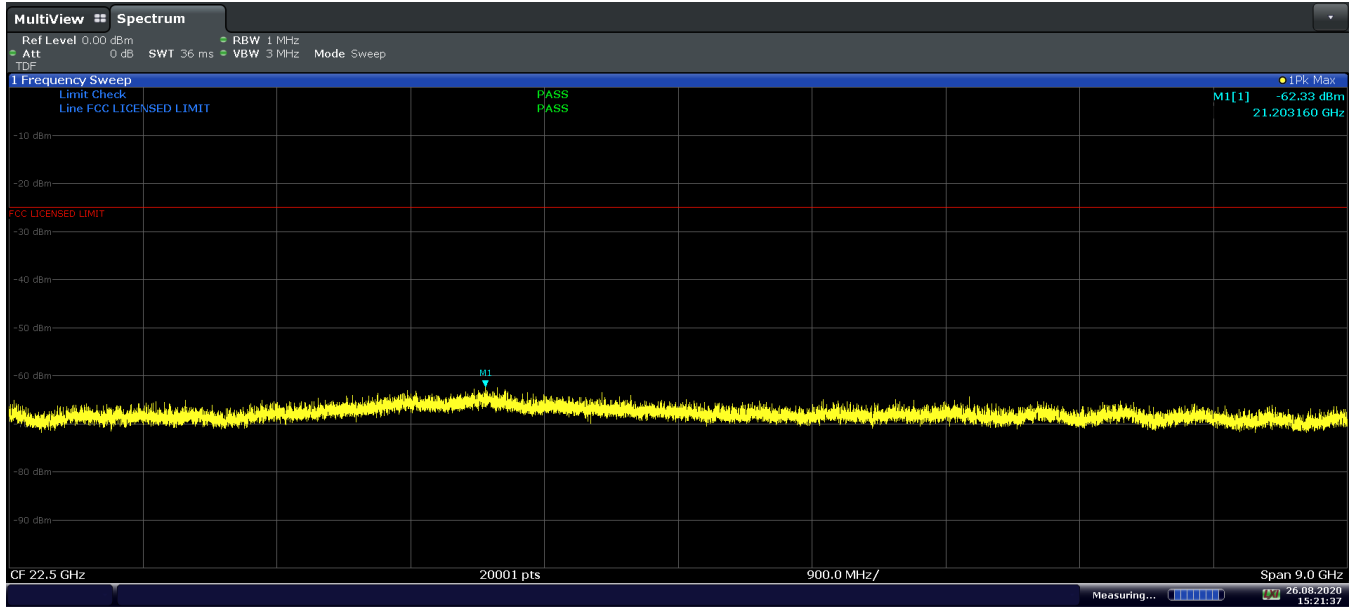
FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 326 of 389

Band 41



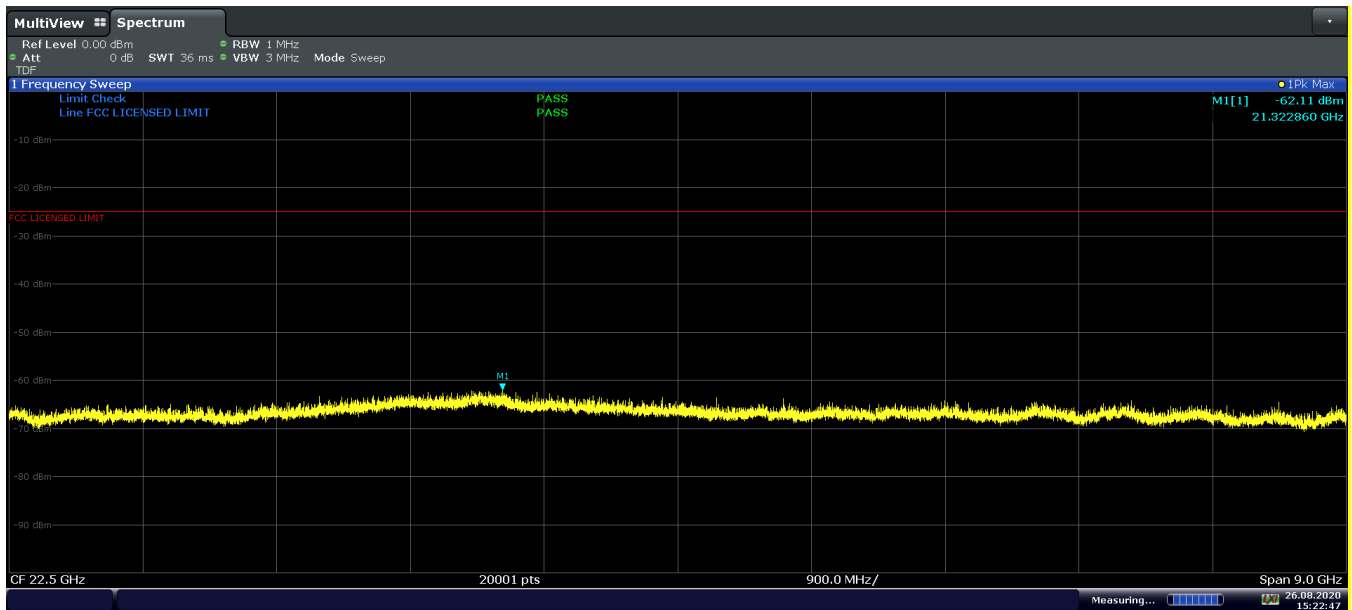
Plot 7-418. Radiated Spurious Emissions 1GHz - 18GHz (Band 41)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 327 of 389



15:21:37 26.08.2020

Plot 7-419. Radiated Spurious Emissions Above 18GHz (Band 41, Pol H)



15:22:48 26.08.2020

Plot 7-420. Radiated Spurious Emissions Above 18GHz (Band 41, Pol. V)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 328 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	-	-	-61.72	8.85	-52.87	-27.9
7518.00	V	-	-	-60.64	9.44	-51.20	-26.2
10024.00	V	-	-	-60.75	9.44	-51.31	-26.3

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	-	-	-61.91	9.13	-52.78	-27.8
7779.00	V	-	-	-60.35	9.38	-50.97	-26.0
10372.00	V	-	-	-61.72	9.38	-52.34	-27.3

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-61.35	9.13	-52.23	-27.2
8040.00	V	-	-	-59.98	9.41	-50.57	-25.6
10720.00	V	-	-	-56.67	9.49	-47.17	-22.2

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

FCC ID: BCGA2072	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 329 of 389

7.9.4 Antenna 1a Radiated Spurious Emissions Measurements

Band 66/4

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	166	36	-67.91	6.69	-61.22	-48.2
5160.00	H	363	58	-62.72	9.08	-53.64	-40.6
6880.00	H	-	-	-65.22	9.54	-55.67	-42.7
8600.00	H	-	-	-64.47	9.65	-54.81	-41.8
10320.00	H	-	-	-61.46	9.56	-51.90	-38.9

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	111	55	-67.26	6.79	-60.48	-47.5
5235.00	H	147	74	-62.90	9.16	-53.74	-40.7
6980.00	H	-	-	-64.49	9.49	-55.00	-42.0
8725.00	H	-	-	-64.56	9.63	-54.93	-41.9
10470.00	H	-	-	-60.96	9.46	-51.50	-38.5

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

FCC ID: BCGA2072	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 330 of 389

OPERATING FREQUENCY: 1770.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz

DISTANCE: 3 meters

LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	356	74	-67.15	6.80	-60.35	-47.3
5310.00	H	325	45	-63.71	9.11	-54.59	-41.6
7080.00	H	-	-	-66.50	9.46	-57.05	-44.0
8850.00	H	-	-	-64.89	9.58	-55.31	-42.3
10620.00	H	-	-	-60.63	9.42	-51.22	-38.2

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 331 of 389

Band 25/2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-68.65	7.29	-61.36	-48.4
5580.00	H	135	335	-50.94	9.37	-41.57	-28.6
7440.00	H	-	-	-65.47	9.44	-56.03	-43.0
9300.00	H	-	-	-62.72	9.53	-53.19	-40.2
11160.00	H	-	-	-60.88	9.74	-51.14	-38.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-68.36	7.30	-61.06	-48.1
5647.50	H	226	297	-52.07	9.37	-42.70	-29.7
7530.00	H	-	-	-65.85	9.44	-56.40	-43.4
9412.50	H	-	-	-62.54	9.56	-52.99	-40.0
11295.00	H	-	-	-60.17	9.63	-50.54	-37.5

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 332 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-69.56	7.37	-62.18	-49.2
5715.00	H	260	276	-53.93	9.38	-44.55	-31.5
7620.00	H	-	-	-65.51	9.38	-56.13	-43.1
9525.00	H	-	-	-62.79	9.56	-53.23	-40.2

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 333 of 389

Band 30

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	V	-	-	-68.50	8.42	-60.07	-20.1
6922.50	V	-	-	-65.31	9.51	-55.80	-15.8
9230.00	V	-	-	-62.38	9.54	-52.85	-12.8

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	V	-	-	-68.49	8.44	-60.06	-20.1
6930.00	V	-	-	-64.91	9.51	-55.41	-15.4
9240.00	V	-	-	-62.52	9.54	-52.99	-13.0

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 334 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	V	110	351	-67.26	8.45	-58.81	-18.8
6937.50	V	-	-	-64.76	9.50	-55.25	-15.3
9250.00	V	-	-	-62.72	9.54	-53.18	-13.2
11562.50	V	-	-	-60.54	9.55	-50.98	-11.0

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 335 of 389

Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	179	136	-65.28	8.86	-56.42	-31.4
7530.00	V	-	-	-65.60	9.44	-56.15	-31.2
10040.00	V	-	-	-62.52	9.55	-52.96	-28.0
12550.00	V	-	-	-58.63	9.30	-49.32	-24.3

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	181	137	-66.53	8.94	-57.59	-32.6
7605.00	V	-	-	-65.83	9.37	-56.46	-31.5
10140.00	V	-	-	-61.57	9.59	-51.98	-27.0
12675.00	V	-	-	-58.05	9.27	-48.78	-23.8

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 336 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	-	-	-68.15	9.01	-59.14	-34.1
7680.00	V	-	-	-65.37	9.40	-55.96	-31.0
10240.00	V	-	-	-61.76	9.56	-52.20	-27.2

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 337 of 389

Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	159	350	-57.22	8.85	-48.37	-23.4
7518.00	H	-	-	-60.76	9.44	-51.32	-26.3
10024.00	H	-	-	-59.12	9.54	-49.58	-24.6
12530.00	H	-	-	-55.46	9.29	-46.16	-21.2

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	-	-	-62.08	9.13	-52.95	-28.0
7779.00	H	-	-	-60.67	9.38	-51.29	-26.3
10372.00	H	-	-	-58.48	9.52	-48.95	-24.0
12965.00	H	-	-	-55.99	9.17	-46.83	-21.8
15558.00	H	-	-	-53.84	8.75	-45.09	-20.1

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

FCC ID: BCGA2072	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 338 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-61.08	9.13	-51.96	-27.0
8040.00	H	-	-	-60.34	9.41	-50.93	-25.9
10720.00	H	-	-	-57.37	9.49	-47.87	-22.9
13400.00	H	-	-	-56.96	9.03	-47.93	-22.9

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 339 of 389

7.9.5 Antenna 3a Radiated Spurious Emissions Measurements

Band 66/4

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	H	-	-	-68.39	6.69	-61.70	-48.7
5160.00	H	-	-	-68.29	9.08	-59.21	-46.2
6880.00	H	-	-	-65.41	9.54	-55.86	-42.9

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-68.74	6.79	-61.96	-49.0
5235.00	H	-	-	-68.57	9.16	-59.41	-46.4
6980.00	H	-	-	-64.76	9.49	-55.27	-42.3

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

FCC ID: BCGA2072	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 340 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-67.95	6.80	-61.15	-48.1
5310.00	H	-	-	-68.38	9.11	-59.26	-46.3
7080.00	H	-	-	-66.53	9.46	-57.08	-44.1

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 341 of 389

Band 25/2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3720.00	H	-	-	-68.87	7.29	-61.58	-48.6
5580.00	H	-	-	-67.96	9.37	-58.59	-45.6
7440.00	H	-	-	-65.56	9.44	-56.12	-43.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3765.00	H	-	-	-68.13	7.30	-60.83	-47.8
5647.50	H	-	-	-68.59	9.37	-59.22	-46.2
7530.00	H	-	-	-65.84	9.44	-56.39	-43.4

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

FCC ID: BCGA2072	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 342 of 389

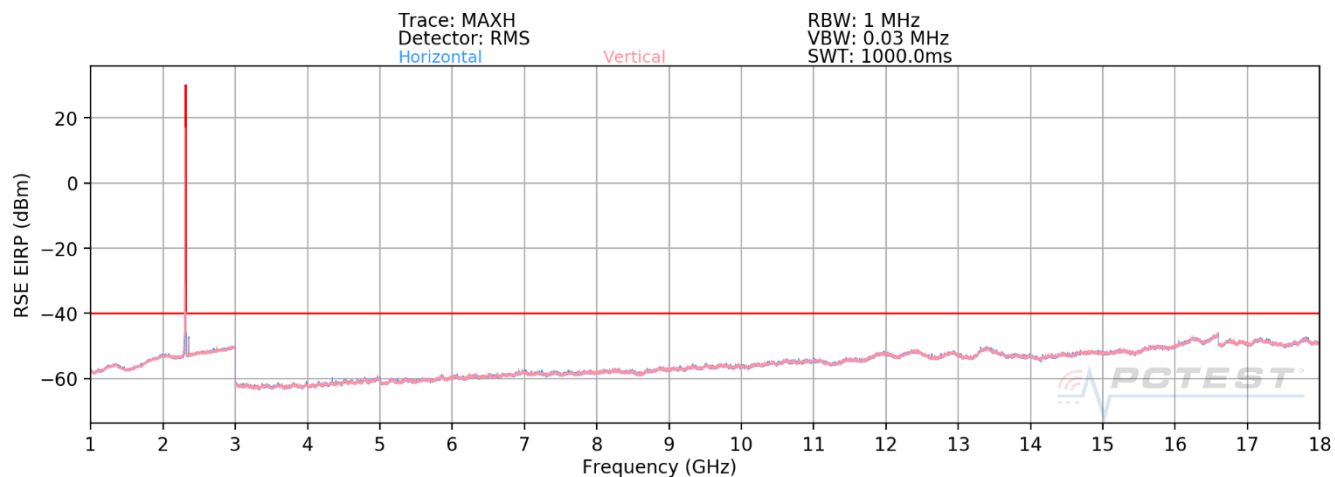
OPERATING FREQUENCY: 1905.00 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3810.00	H	-	-	-68.53	7.37	-61.15	-48.2
5715.00	H	-	-	-67.94	9.38	-58.56	-45.6
7620.00	H	-	-	-65.69	9.38	-56.31	-43.3

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

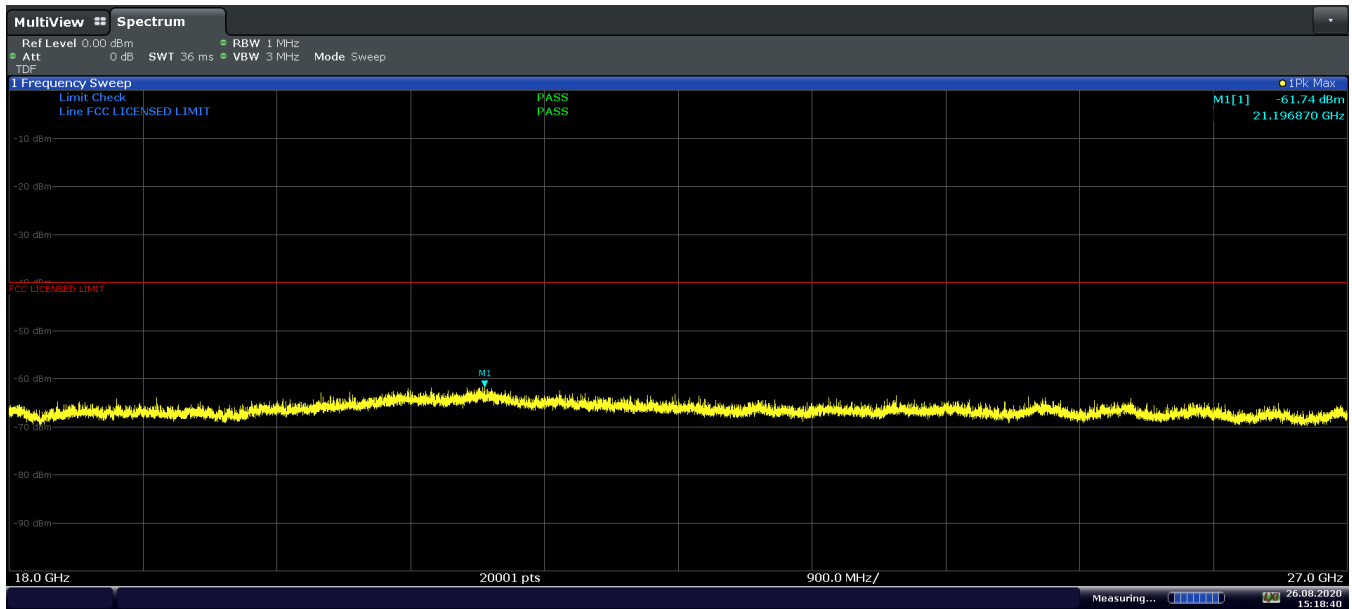
FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 343 of 389

Band 30



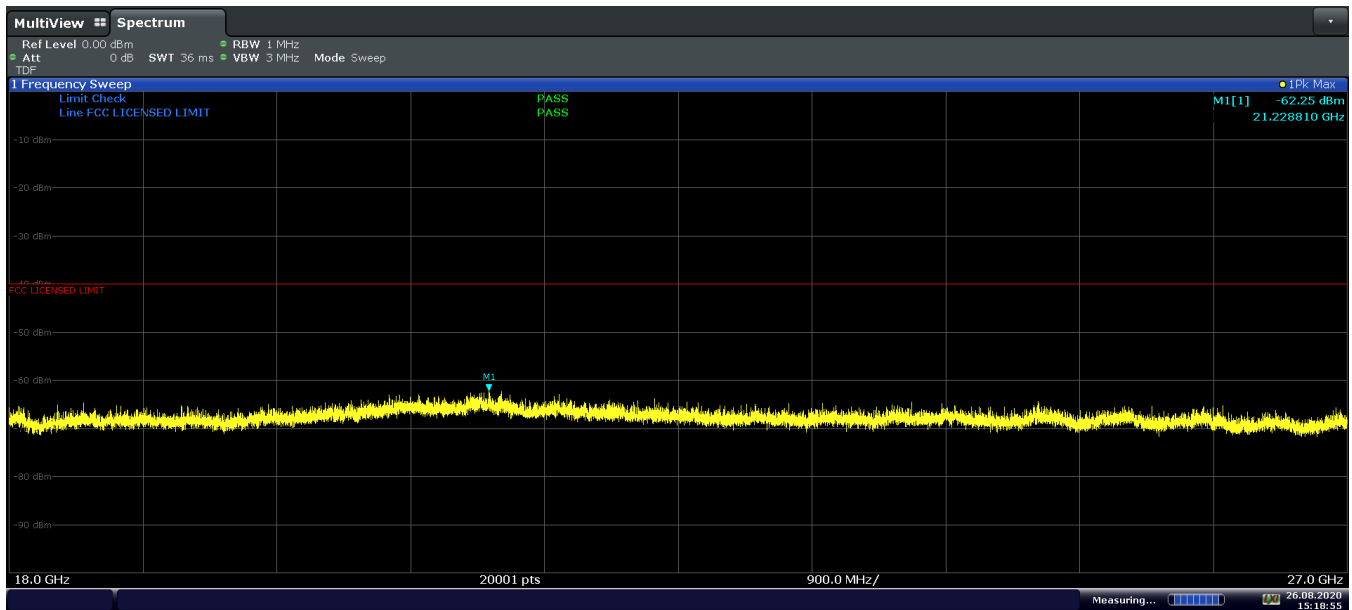
Plot 7-421. Radiated Spurious Emissions 1GHz - 18GHz (Band 30)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 344 of 389



15:18:40 26.08.2020

Plot 7-422. Radiated Spurious Emissions Above 18GHz (Band 30, Pol H)



15:18:55 26.08.2020

Plot 7-423. Radiated Spurious Emissions Above 18GHz (Band 30, Pol V)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 345 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4615.00	V	-	-	-68.63	8.42	-60.20	-20.2
6922.50	V	-	-	-65.18	9.51	-55.67	-15.7
9230.00	V	-	-	-62.43	9.54	-52.90	-12.9

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4620.00	V	-	-	-68.43	8.44	-60.00	-20.0
6930.00	V	-	-	-64.95	9.51	-55.45	-15.4
9240.00	V	-	-	-62.58	9.54	-53.05	-13.0

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
4625.00	V	-	-	-68.27	8.45	-59.82	-19.8
6937.50	V	-	-	-64.97	9.50	-55.46	-15.5
9250.00	V	-	-	-62.87	9.54	-53.33	-13.3

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

FCC ID: BCGA2072	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 346 of 389

Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	308	319	-67.41	8.86	-58.55	-33.5
7530.00	V	-	-	-65.88	9.44	-56.43	-31.4
10040.00	V	-	-	-62.25	9.55	-52.69	-27.7
12550.00	V	-	-	-58.74	9.30	-49.43	-24.4

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	-	-	-67.75	8.94	-58.81	-33.8
7605.00	V	-	-	-65.85	9.37	-56.48	-31.5
10140.00	V	-	-	-61.62	9.59	-52.03	-27.0

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 347 of 389

OPERATING FREQUENCY: 2560.00 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz

DISTANCE: 3 meters

LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	-	-	-68.12	9.01	-59.11	-34.1
7680.00	V	-	-	-65.12	9.40	-55.71	-30.7
10240.00	V	-	-	-61.86	9.56	-52.30	-27.3

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 348 of 389

Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	-	-	-61.24	8.85	-52.39	-27.4
7522.00	V	-	-	-59.36	9.44	-49.92	-24.9
10032.00	V	-	-	-58.85	9.55	-49.31	-24.3

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	208	168	-59.19	9.13	-50.06	-25.1
7779.00	H	237	168	-58.35	9.38	-48.97	-24.0
10372.00	H	-	-	-58.21	9.52	-48.68	-23.7
12965.00	H	-	-	-55.73	9.17	-46.57	-21.6
15558.00	H	-	-	-54.50	8.75	-45.75	-20.7

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

FCC ID: BCGA2072	 PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 349 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	H	-	-	-61.30	9.13	-52.18	-27.2
8040.00	H	-	-	-60.20	9.41	-50.79	-25.8
10720.00	H	-	-	-57.18	9.49	-47.68	-22.7

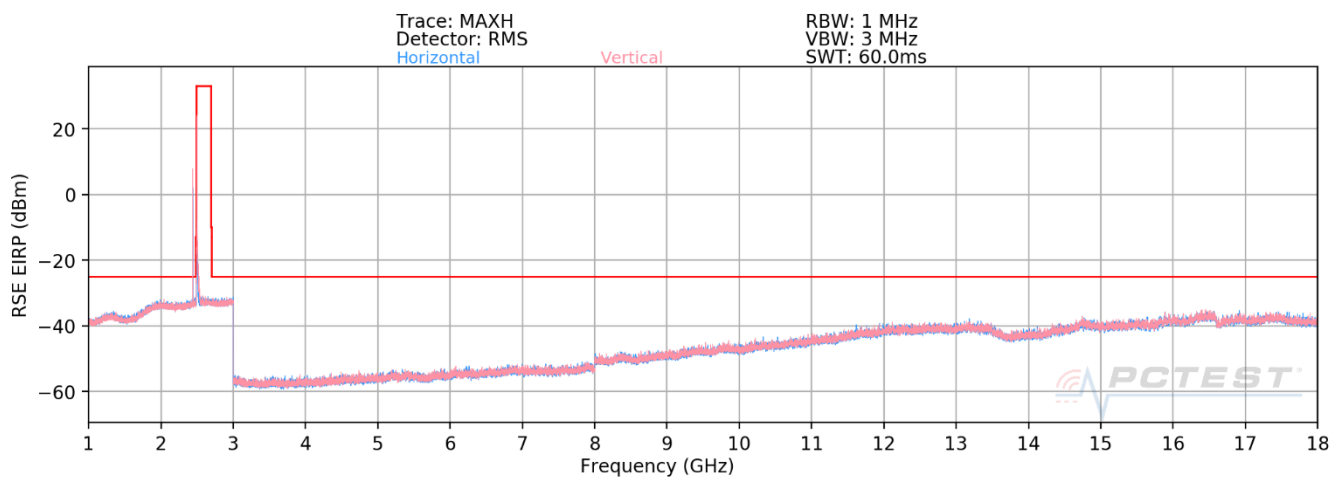
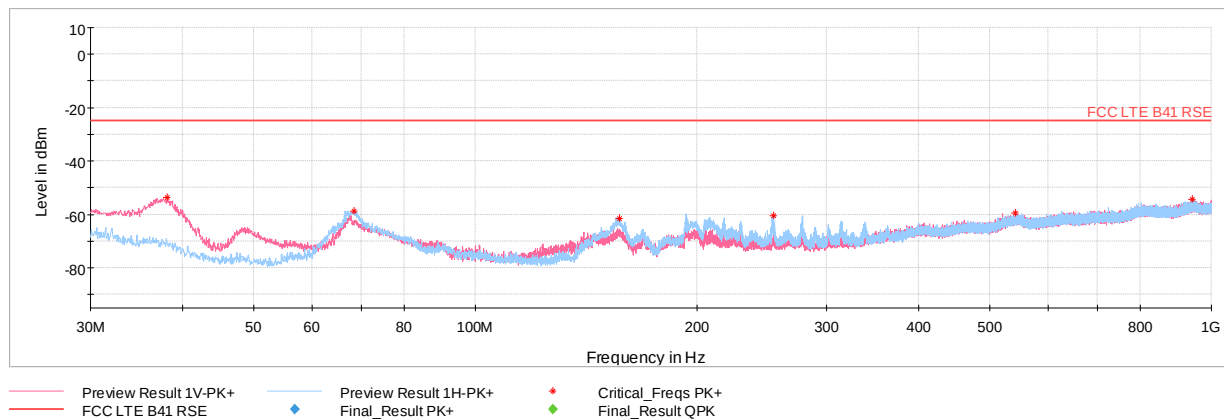
Table 7-157. Radiated Spurious Data (Band 41 - High Channel)

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 350 of 389

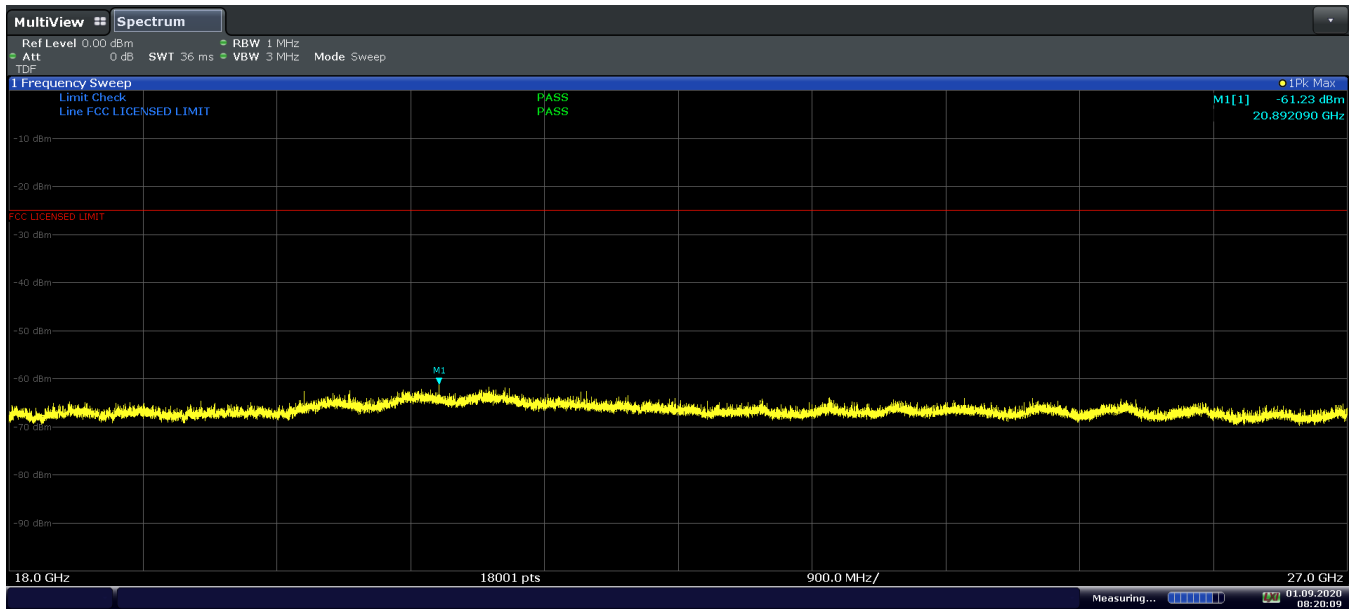
7.9.6 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	LTE (Band 41)	Bluetooth LE
Antenna	Antenna 1a	Antenna 1a
Channel	39750	19
Operating Frequency (MHz)	2506	2440
Mode/Modulation	QPSK/1RB/20MHz	1M/ePA

Table 7-158. Worst Case Simultaneous Transmission Configuration

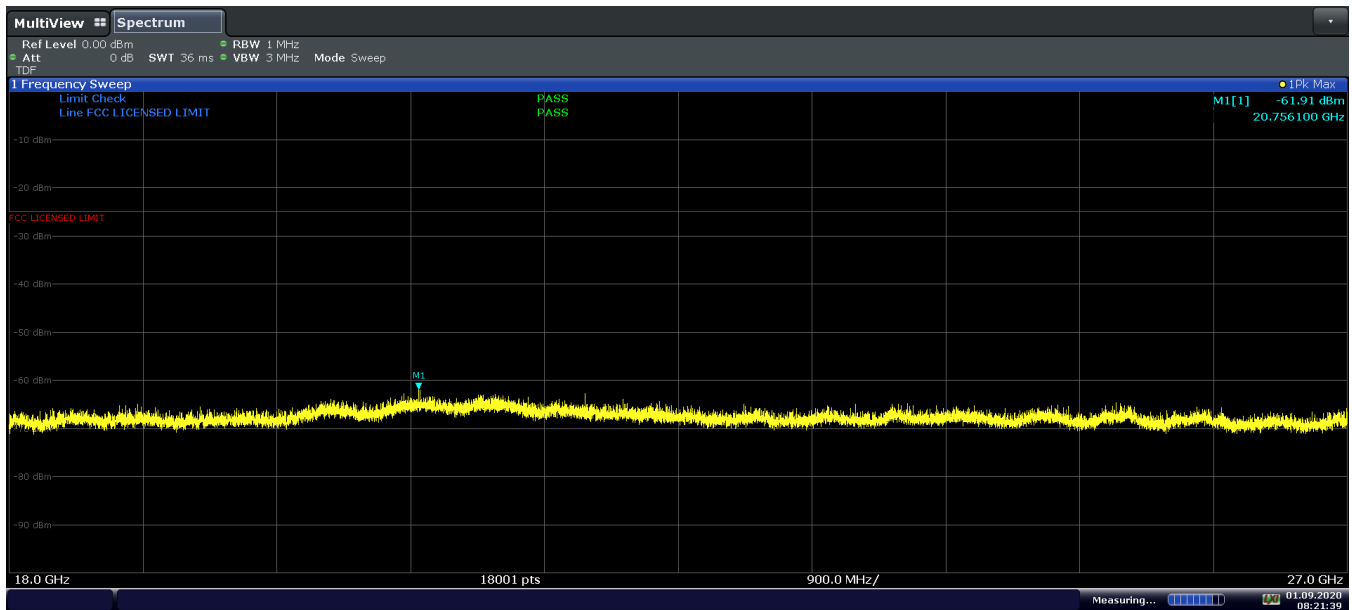


FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 351 of 389



08:20:10 01.09.2020

Plot 7-426. Radiated Spurious Emissions - Simultaneous Transmission 18GHz-27GHz Pol. H



08:21:40 01.09.2020

Plot 7-427. Radiated Spurious Emissions - Simultaneous Transmission 18GHz-27GHz Pol. V

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 352 of 389

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Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4880.00	Avg	H	-	-	-78.17	4.53	33.36	53.98	-20.62
4880.00	Peak	H	-	-	-67.85	4.53	43.68	73.98	-30.30
7320.00	Avg	H	-	-	-79.83	9.02	36.19	53.98	-17.79
7320.00	Peak	H	-	-	-69.25	9.02	46.77	73.98	-27.21
12200.00	Avg	H	-	-	-81.86	17.44	42.58	53.98	-11.40
12200.00	Peak	H	-	-	-70.59	17.44	53.85	73.98	-20.13

Table 7-159. BT Harmonics Emissions Measurements in Simultaneous Transmission Mode

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant. Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	H	-	-	-62.04	8.85	-53.19	-25.0	-28.2
7518.00	H	-	-	-60.81	9.44	-51.37	-25.0	-26.4
10024.00	H	-	-	-58.02	9.54	-48.48	-25.0	-23.5
12530.00	H	-	-	-53.61	9.29	-44.31	-25.0	-19.3
2382.00	H	283	146	-41.15	4.05	-37.09	-25.0	-12.1

Table 7-160. LTE Harmonics and Intermodulations Emissions Measurements in Simultaneous Transmission Mode

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.10 Uplink Carrier Aggregation Radiated Measurements

§2.1053, §27.53(m)

Test Overview

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

TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. 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: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Test Setup

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

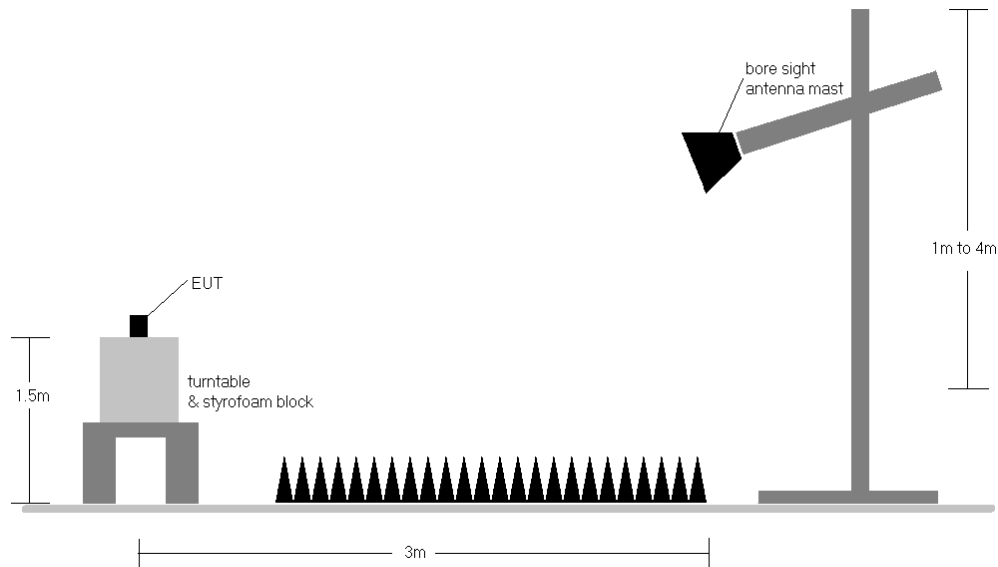


Figure 7-10. Test Instrument & Measurement Setup

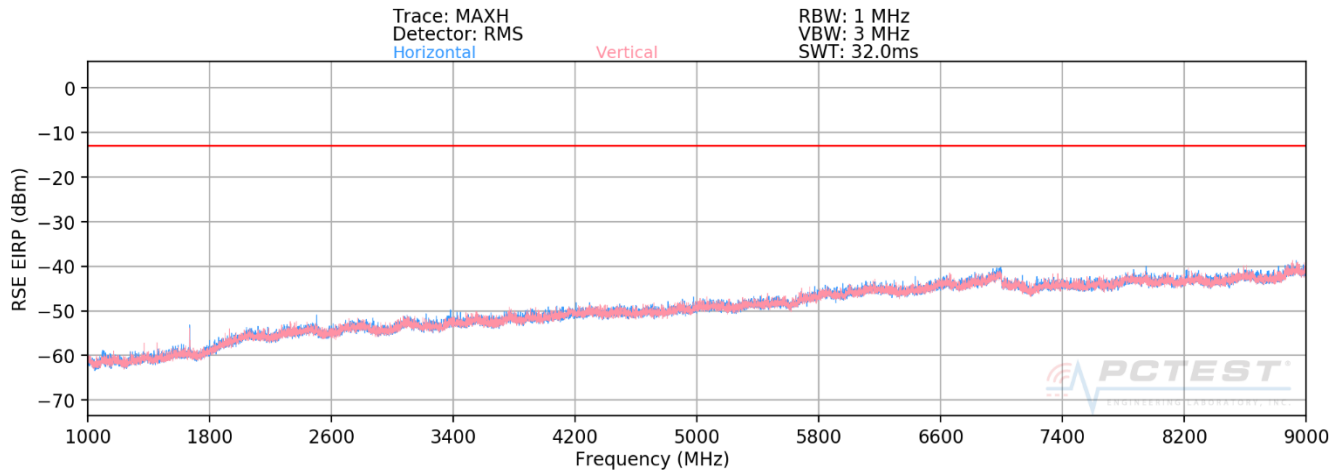
Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with modulations, offsets and channel bandwidth configurations in this section. 1RB config was found and reported as a worst case RB size..
- 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) No significant emissions were found for below 1GHz and Above 18GHz measurement.
- 6) 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.
- 7) No significant emissions were found as a result of two uplink carriers operating contiguously.
- 8) Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case
- 9) Spot-check testing of the following data was performed and confirmed to be within guidance per Data Re-use KDB defined by the FCC.

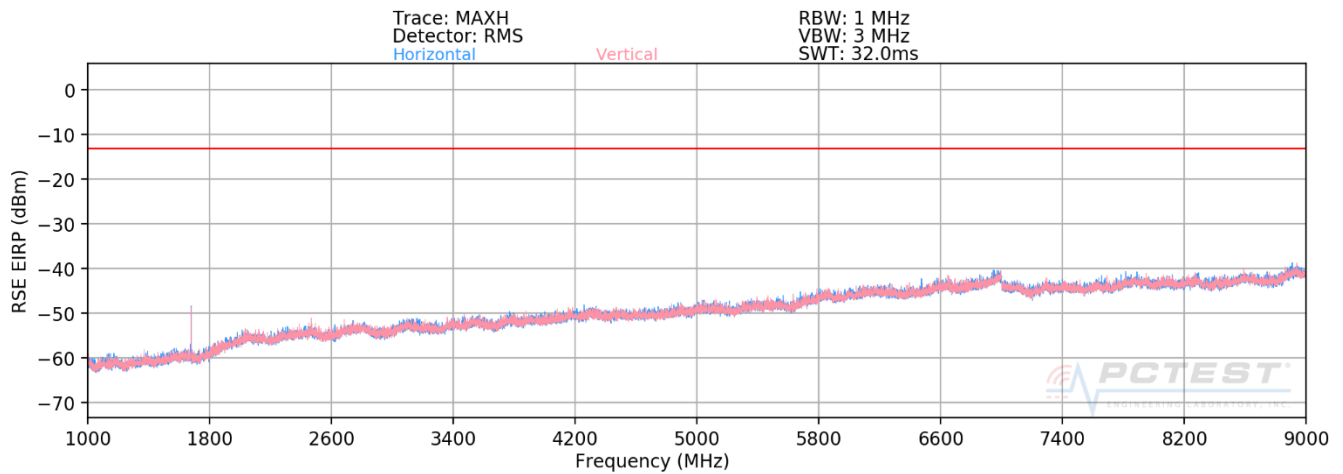
FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.10.1 Antenna 4 Radiated Spurious Emissions Measurements

Band 5



Plot 7-428. Radiated Spurious Emissions (ULCA B5 PCC: RB 1 Offset 49, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-429. Radiated Spurious Emissions (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 356 of 389

OPERATING FREQUENCY (PCC): 829.00 MHz
 OPERATING FREQUENCY (SCC): 838.90 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	-	-	-72.69	3.80	-68.88	-55.9
2487.00	H	-	-	-67.66	4.34	-63.32	-50.3
3316.00	H	-	-	-69.75	6.51	-63.24	-50.2
4145.00	H	-	-	-69.71	7.88	-61.83	-48.8

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

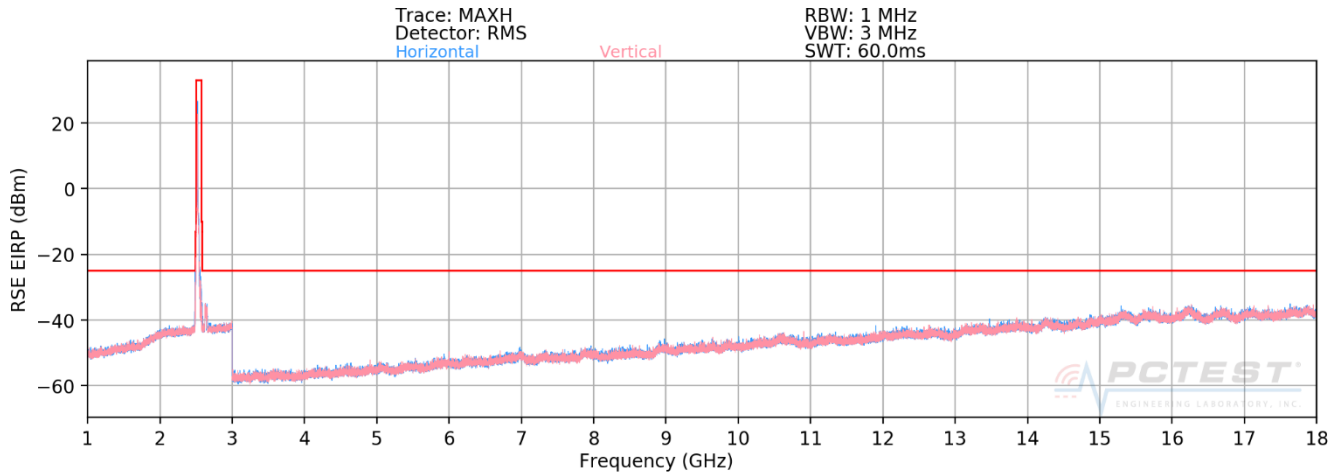
OPERATING FREQUENCY (PCC): 844.00 MHz
 OPERATING FREQUENCY (SCC): 834.10 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	7	19	-56.24	3.70	-52.54	-39.5
2532.00	H	358	15	-60.40	4.36	-56.04	-43.0
3376.00	H	-	-	-61.62	6.60	-55.03	-42.0
4220.00	H	-	-	-63.38	8.03	-55.35	-42.4

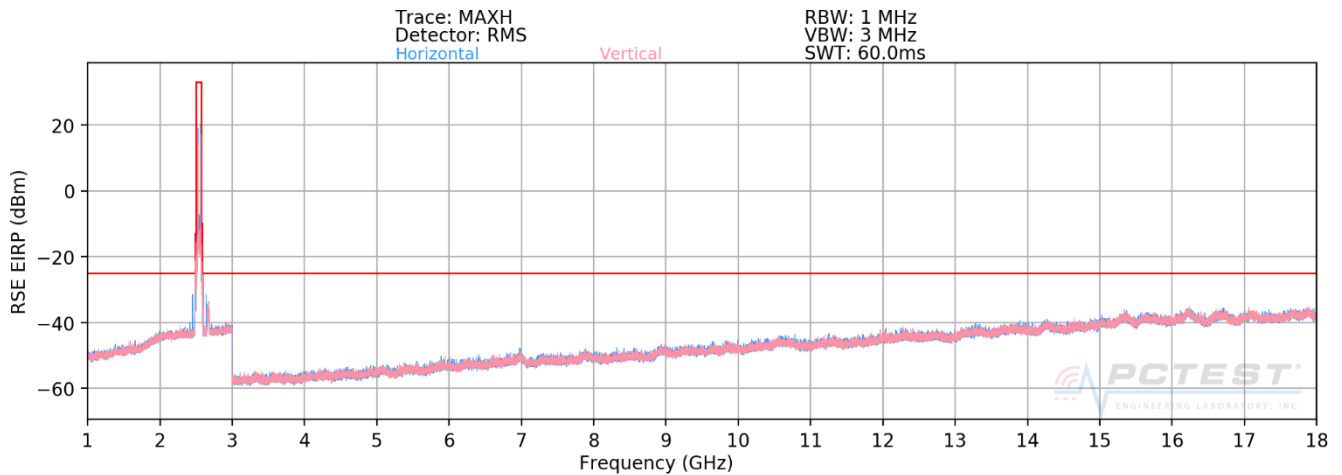
Table 7-162. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 357 of 389

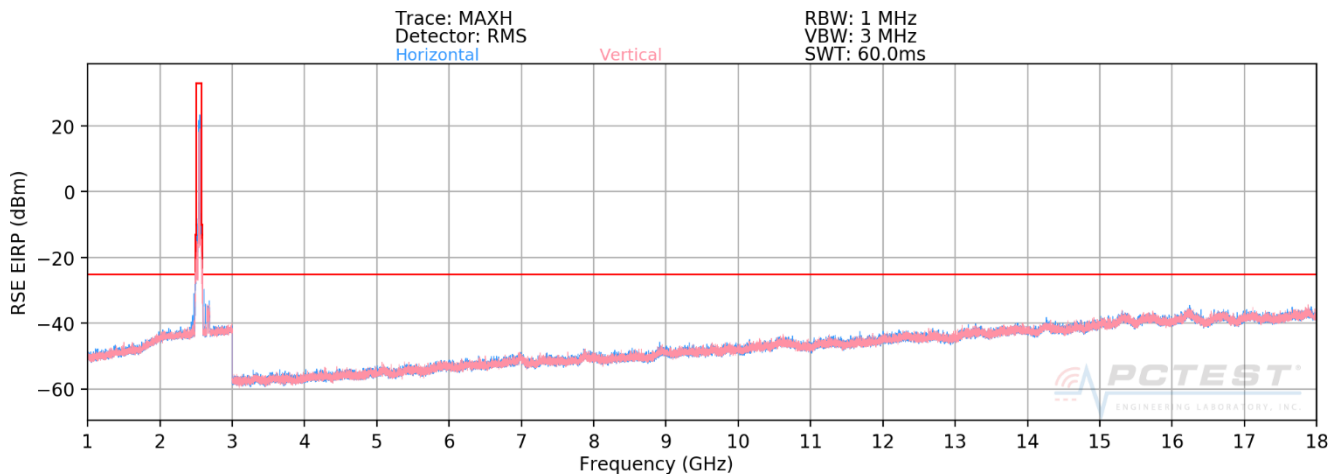
Band 7



Plot 7-430. Radiated Spurious Emissions (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-431. Radiated Spurious Emissions (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)



Plot 7-432. Radiated Spurious Emissions (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 358 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-68.28	8.86	-59.42	-34.4
7530.00	V	-	-	-65.89	9.44	-56.44	-31.4
10040.00	V	-	-	-62.52	9.55	-52.96	-28.0

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-61.80	8.94	-52.86	-27.9
7605.00	H	-	-	-60.51	9.37	-51.14	-26.1
10140.00	H	-	-	-57.44	9.59	-47.85	-22.8

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

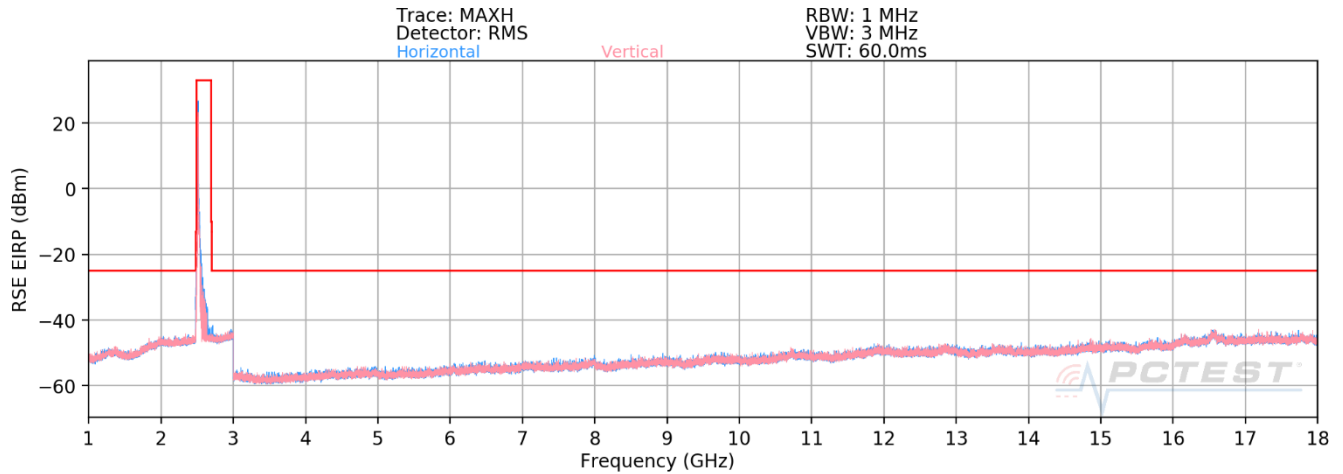
OPERATING FREQUENCY (PCC): 2560.00 MHz
 OPERATING FREQUENCY (SCC): 2540.20 MHz
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-62.55	9.01	-53.54	-28.5
7680.00	H	-	-	-61.12	9.40	-51.71	-26.7
10240.00	H	-	-	-57.70	9.56	-48.14	-23.1

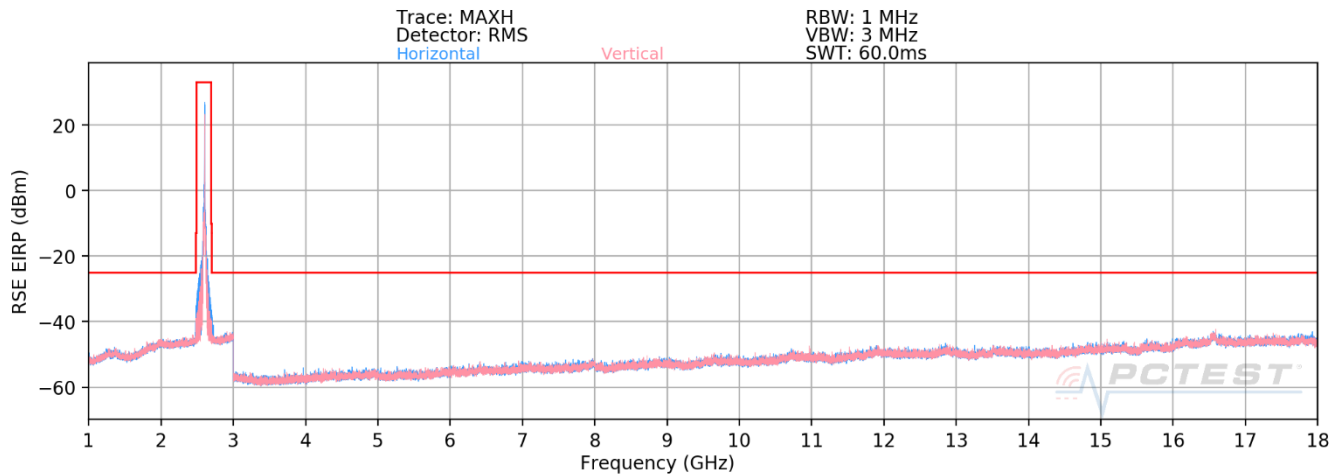
Table 7-165. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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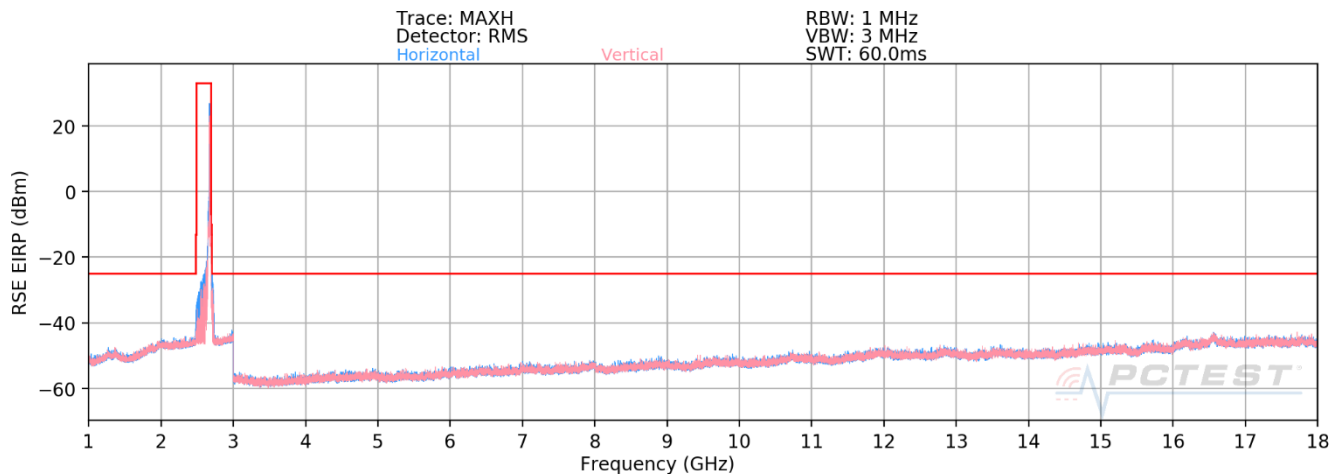
Band 41



Plot 7-433. Radiated Spurious Emissions (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Low Channel)



Plot 7-434. Radiated Spurious Emissions (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 – Mid Channel)



Plot 7-435. Radiated Spurious Emissions (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 360 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	-	-	-60.49	8.85	-51.64	-26.6
7518.00	V	-	-	-59.75	9.44	-50.31	-25.3
10024.00	V	-	-	-57.99	9.54	-48.45	-23.4

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	163	257	-60.62	9.13	-51.49	-26.5
7779.00	V	-	-	-60.43	9.38	-51.05	-26.1
10372.00	V	-	-	-57.99	9.52	-48.46	-23.5
12965.00	V	-	-	-55.30	9.17	-46.14	-21.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-61.25	9.13	-52.13	-27.1
8040.00	V	-	-	-60.42	9.41	-51.01	-26.0
10720.00	V	-	-	-56.56	9.49	-47.06	-22.1

Table 7-168. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 361 of 389

7.10.2 Antenna 3b Radiated Spurious Emissions Measurements

Band 5

OPERATING FREQUENCY (PCC):	829.00	MHz
OPERATING FREQUENCY (SCC):	838.90	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1658.00	H	315	266	-63.84	3.80	-60.03	-47.0
2487.00	H	301	227	-60.90	4.34	-56.56	-43.6
3316.00	H	-	-	-68.99	6.51	-62.48	-49.5
4145.00	H	-	-	-69.05	7.88	-61.17	-48.2
4974.00	H	-	-	-68.50	8.83	-59.66	-46.7

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

OPERATING FREQUENCY (PCC):	844.00	MHz
OPERATING FREQUENCY (SCC):	834.10	MHz
MODULATION SIGNAL:	QPSK	
BANDWIDTH:	10.0	MHz
DISTANCE:	3	meters
LIMIT:	-13	dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	H	150	266	-59.82	3.70	-56.12	-43.1
2532.00	H	352	199	-63.93	4.36	-59.57	-46.6
3376.00	H	-	-	-68.21	6.60	-61.62	-48.6
4220.00	H	-	-	-68.73	8.03	-60.70	-47.7
5064.00	H	-	-	-68.62	8.93	-59.69	-46.7

Table 7-170. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 362 of 389

Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-68.37	8.86	-59.51	-34.5
7530.00	V	-	-	-65.91	9.44	-56.46	-31.5
10040.00	V	-	-	-62.48	9.55	-52.92	-27.9

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	-	-	-67.86	8.94	-58.92	-33.9
7605.00	V	-	-	-66.01	9.37	-56.64	-31.6
10140.00	V	-	-	-61.81	9.59	-52.22	-27.2

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	-	-	-68.31	9.01	-59.30	-34.3
7680.00	V	-	-	-65.47	9.40	-56.06	-31.1
10240.00	V	-	-	-62.00	9.56	-52.44	-27.4

Table 7-173. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 363 of 389

Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	-	-	-61.19	8.85	-52.34	-27.3
7518.00	V	298	256	-52.41	9.44	-42.97	-18.0
10024.00	V	-	-	-59.20	9.54	-49.66	-24.7
12530.00	V	-	-	-56.36	9.29	-47.06	-22.1

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	-	-	-61.98	9.13	-52.85	-27.9
7779.00	V	101	266	-49.12	9.38	-39.74	-14.7
10372.00	V	-	-	-58.77	9.52	-49.24	-24.2
12965.00	V	-	-	-55.54	9.17	-46.38	-21.4

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

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device		Page 364 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-60.51	9.13	-51.39	-26.4
8040.00	V	113	267	-49.57	9.41	-40.16	-15.2
10720.00	V	-	-	-57.03	9.49	-47.53	-22.5
13400.00	V	-	-	-57.21	9.03	-48.18	-23.2

Table 7-176. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 365 of 389

7.10.3 Antenna 1a Radiated Spurious Emissions Measurements

Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-68.57	8.86	-59.71	-34.7
7530.00	V	-	-	-65.89	9.44	-56.44	-31.4
10040.00	V	-	-	-61.93	9.55	-52.37	-27.4

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	H	-	-	-69.05	8.94	-60.11	-35.1
7605.00	H	-	-	-65.44	9.37	-56.07	-31.1
10140.00	H	-	-	-61.88	9.59	-52.29	-27.3

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

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 366 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	H	-	-	-68.91	9.01	-59.90	-34.9
7680.00	H	-	-	-65.34	9.40	-55.93	-30.9
10240.00	H	-	-	-61.83	9.56	-52.27	-27.3

Table 7-179. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 367 of 389

Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-61.18	8.85	-52.33	-27.3
7518.00	H	-	-	-60.56	9.44	-51.12	-26.1
10024.00	H	-	-	-58.82	9.54	-49.28	-24.3

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	-	-	-61.52	9.13	-52.39	-27.4
7779.00	V	-	-	-59.57	9.38	-50.19	-25.2
10372.00	V	-	-	-58.41	9.52	-48.88	-23.9

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-60.60	9.13	-51.48	-26.5
8040.00	V	-	-	-59.82	9.41	-50.41	-25.4
10720.00	V	-	-	-56.61	9.49	-47.11	-22.1

Table 7-182. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 368 of 389

7.10.4 Antenna 3a Radiated Spurious Emissions Measurements

Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5020.00	V	-	-	-68.05	8.86	-59.19	-34.2
7530.00	V	-	-	-66.04	9.44	-56.59	-31.6
10040.00	V	-	-	-62.55	9.55	-52.99	-28.0

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5070.00	V	-	-	-68.93	8.94	-59.99	-35.0
7605.00	V	-	-	-65.69	9.37	-56.32	-31.3
10140.00	V	-	-	-62.49	9.59	-52.90	-27.9

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

FCC ID: BCGA2072		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 369 of 389

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5120.00	V	-	-	-68.99	9.01	-59.98	-35.0
7680.00	V	-	-	-65.60	9.40	-56.19	-31.2
10240.00	V	-	-	-61.81	9.56	-52.25	-27.2

Table 7-185. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 370 of 389

Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	H	-	-	-61.27	8.85	-52.42	-27.4
7518.00	H	-	-	-60.58	9.44	-51.14	-26.1
10024.00	H	-	-	-59.33	9.54	-49.79	-24.8

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	V	-	-	-61.57	9.13	-52.44	-27.4
7779.00	V	-	-	-60.25	9.38	-50.87	-25.9
10372.00	V	-	-	-58.00	9.52	-48.47	-23.5

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5360.00	V	-	-	-60.75	9.13	-51.63	-26.6
8040.00	V	-	-	-60.06	9.41	-50.65	-25.7
10720.00	V	-	-	-57.43	9.49	-47.93	-22.9

Table 7-188. Radiated Spurious Data (ULCA B41 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 – High Channel)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.11 Frequency Stability / Temperature Variation

Test Overview and Limit

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

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

For Part 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 C63.26 2015

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

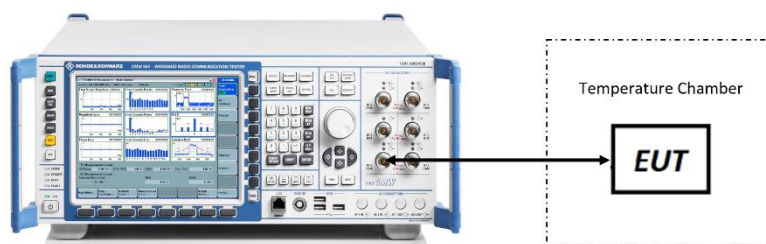


Figure 7-11. Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported.
2. Following data were re-used from model A2324 per Data Re-use KDB guidance defined by the FCC.

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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	707,499,996	-4	-0.0000005
100 %		- 20	707,500,009	9	0.0000012
100 %		- 10	707,500,012	12	0.0000016
100 %		0	707,500,008	8	0.0000012
100 %		+ 10	707,500,008	8	0.0000012
100 %		+ 20	707,500,011	11	0.0000015
100 %		+ 30	707,500,006	6	0.0000008
100 %		+ 40	707,500,007	7	0.0000010
100 %		+ 50	707,500,004	4	0.0000006
BATT. ENDPOINT	3.40	+ 20	707,500,008	8	0.0000012

Table 7-189. Frequency Stability Data (Band 12/17 - 10MHz QPSK - Full RB Configuration)

Note:

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 12/17 Frequency Stability Measurements

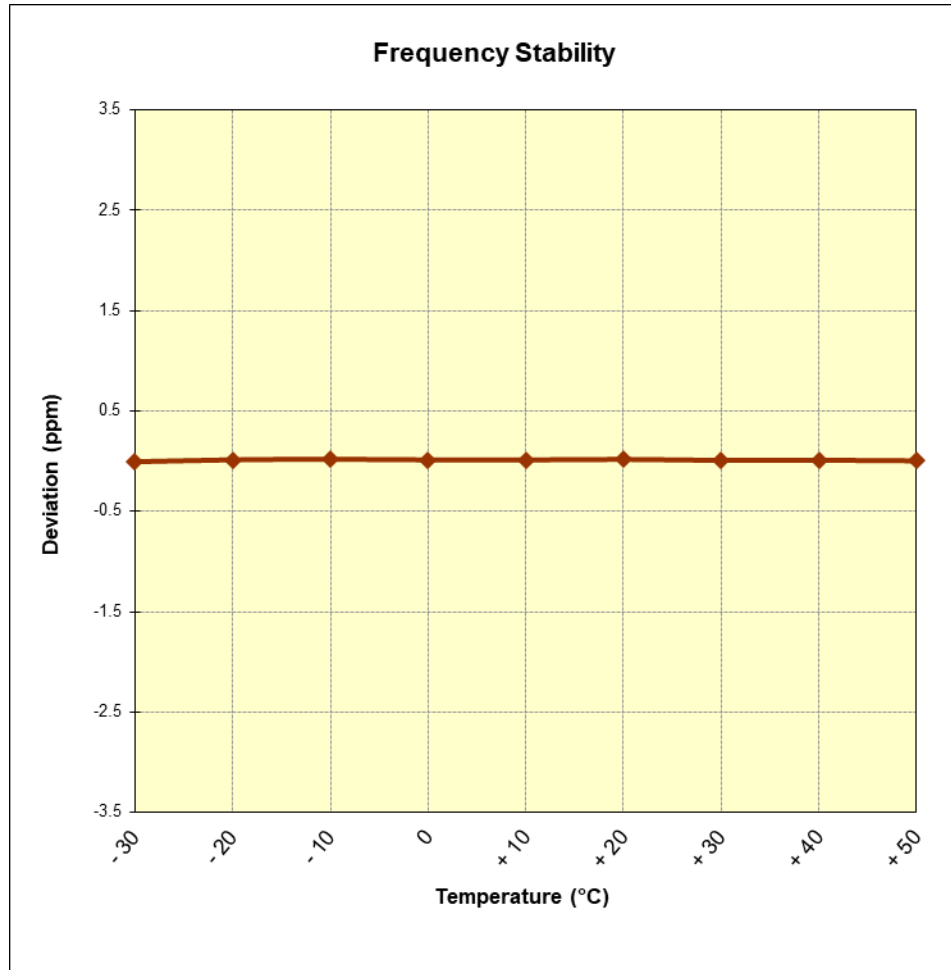


Figure 7-12. Frequency Stability Graph (Band 12/17 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

OPERATING FREQUENCY:	782,000,000	Hz
CHANNEL:	23230	
REFERENCE VOLTAGE:	3.80	VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	782,000,008	8	0.0000010
100 %		- 20	782,000,012	12	0.0000015
100 %		- 10	782,000,001	1	0.0000001
100 %		0	782,000,001	1	0.0000001
100 %		+ 10	782,000,001	1	0.0000002
100 %		+ 20	782,000,008	8	0.0000010
100 %		+ 30	782,000,004	4	0.0000005
100 %		+ 40	782,000,002	2	0.0000003
100 %		+ 50	782,000,001	1	0.0000002
BATT. ENDPOINT	3.40	+ 20	781,999,990	-10	-0.0000013

Table 7-190. Frequency Stability Data (Band 13 - 10MHz QPSK - Full RB Configuration)

Note:

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 13 Frequency Stability Measurements

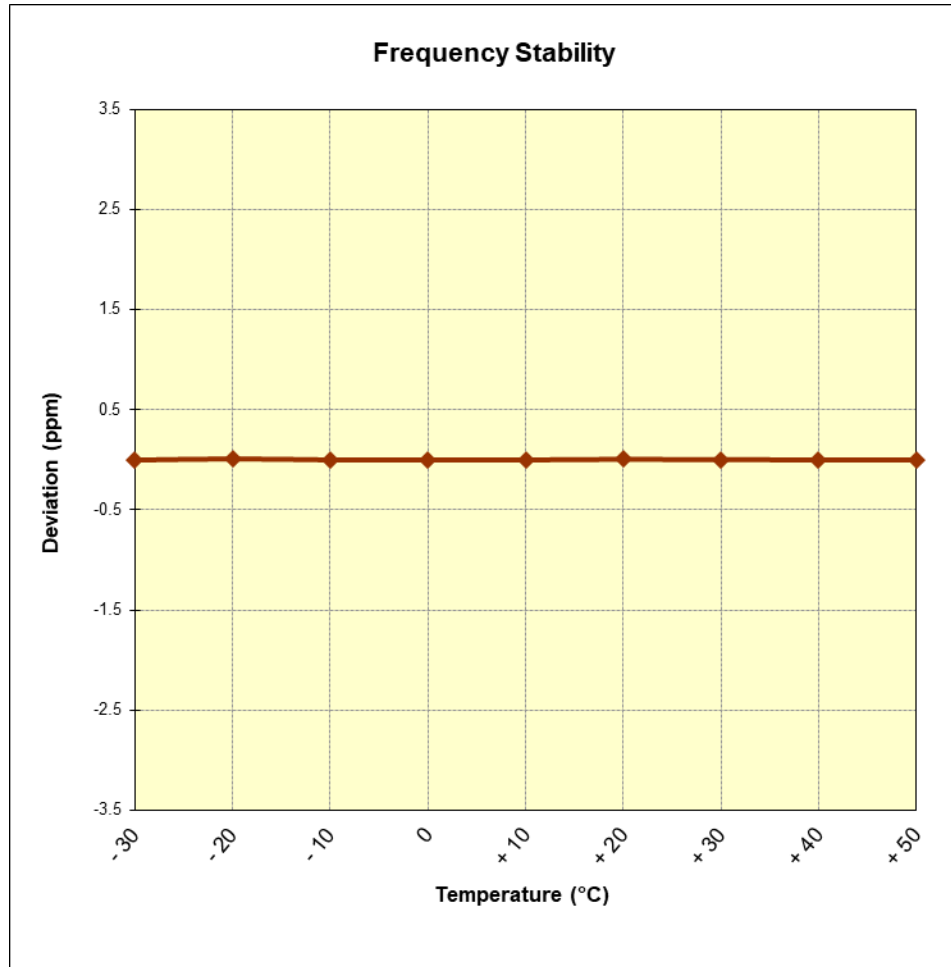


Figure 7-13. Frequency Stability Graph (Band 13 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 26/5 Frequency Stability Measurements

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

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,500,005	5	0.0000006
100 %		- 20	836,500,004	4	0.0000005
100 %		- 10	836,500,004	4	0.0000005
100 %		0	836,500,005	5	0.0000006
100 %		+ 10	836,500,004	4	0.0000005
100 %		+ 20	836,500,002	2	0.0000002
100 %		+ 30	836,500,001	1	0.0000002
100 %		+ 40	836,500,002	2	0.0000002
100 %		+ 50	836,500,001	1	0.0000001
BATT. ENDPOINT	3.40	+ 20	836,500,001	1	0.0000002

Table 7-191. Frequency Stability Data (Band 26/5 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 377 of 389

Band 26/5 Frequency Stability Measurements

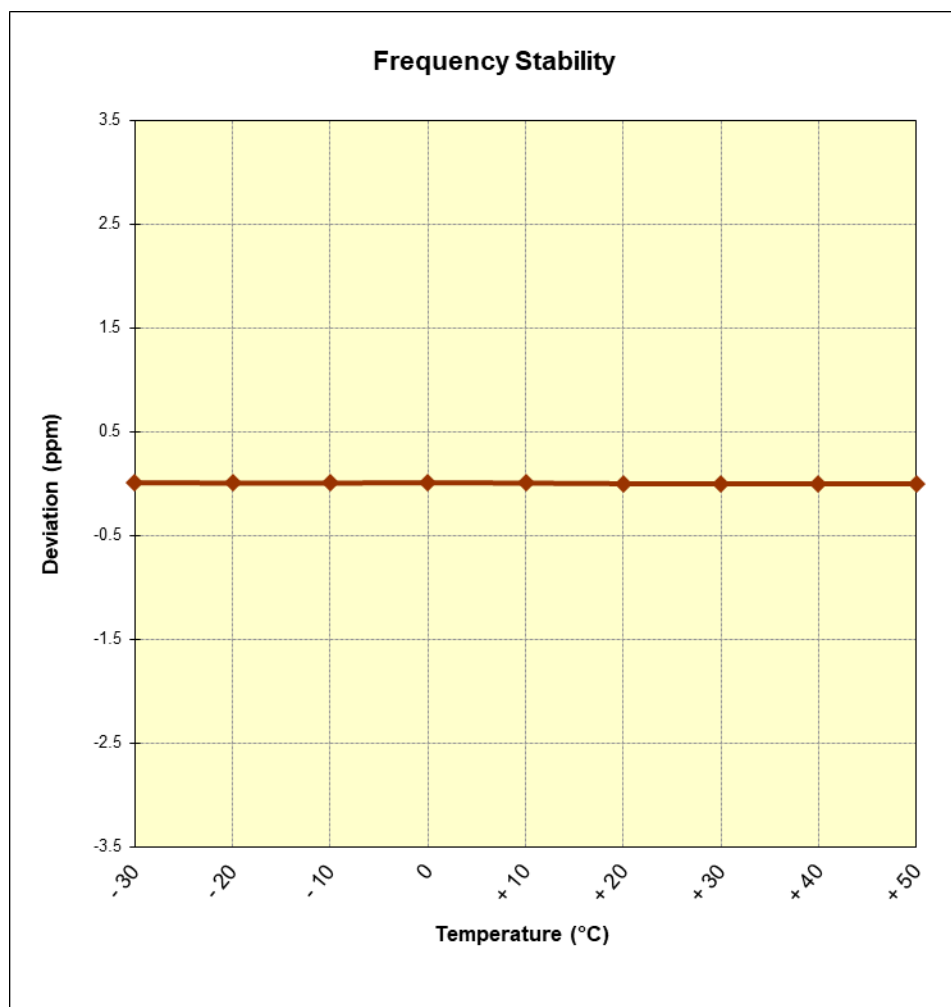


Figure 7-14. Frequency Stability Graph (Band 26/5 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 66/4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz

CHANNEL: 132322

REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,745,000,008	8	0.0000005
100 %		- 20	1,745,000,006	6	0.0000003
100 %		- 10	1,745,000,006	6	0.0000003
100 %		0	1,745,000,004	4	0.0000002
100 %		+ 10	1,745,000,009	9	0.0000005
100 %		+ 20	1,744,999,999	-1	-0.0000001
100 %		+ 30	1,745,000,004	4	0.0000003
100 %		+ 40	1,745,000,007	7	0.0000004
100 %		+ 50	1,745,000,008	8	0.0000005
BATT. ENDPOINT	3.40	+ 20	1,745,000,003	3	0.0000002

Table 7-192. Frequency Stability Data (Band 66/4 - 20MHz QPSK - Full RB Configuration)

Note:

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 66/4 Frequency Stability Measurements

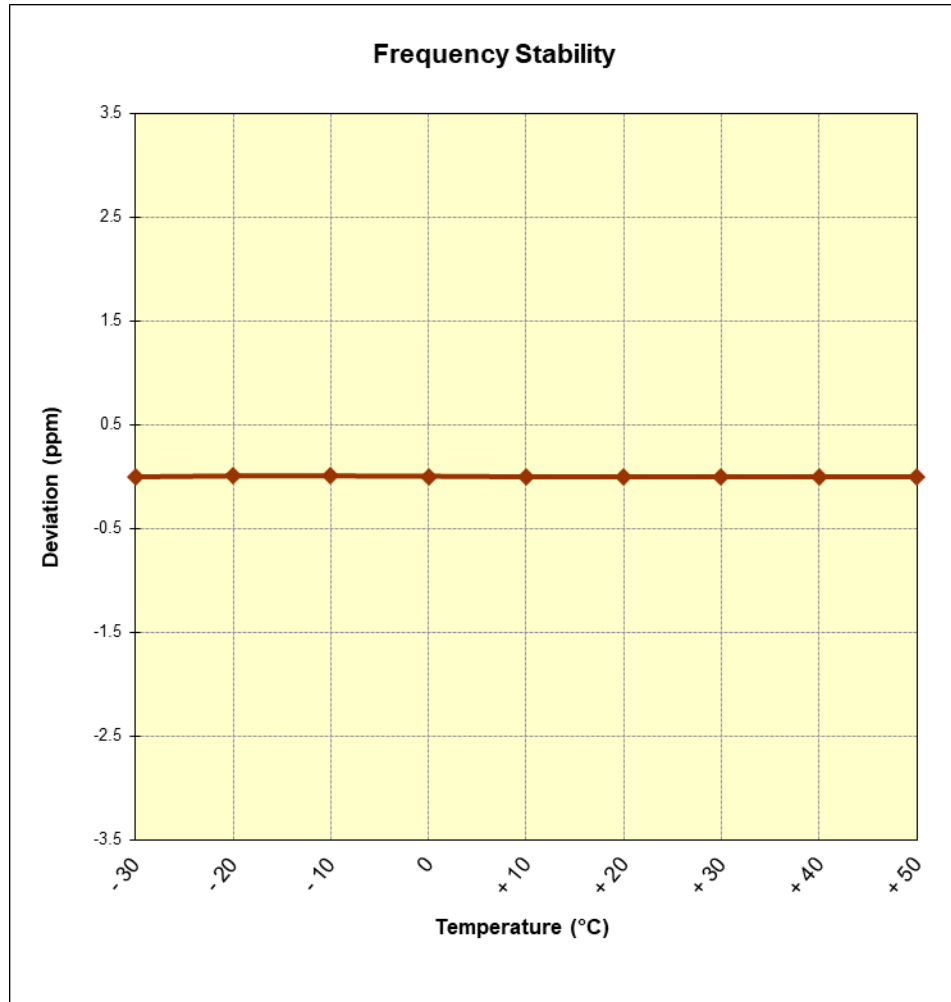


Figure 7-15. Frequency Stability Graph (Band 66/4 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 25/2 Frequency Stability Measurements

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

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,882,500,002	2	0.0000001
100 %		- 20	1,882,500,001	1	0.0000001
100 %		- 10	1,882,500,001	1	0.0000001
100 %		0	1,882,500,004	4	0.0000002
100 %		+ 10	1,882,499,998	-2	-0.0000001
100 %		+ 20	1,882,500,002	2	0.0000001
100 %		+ 30	1,882,500,010	10	0.0000005
100 %		+ 40	1,882,500,010	10	0.0000005
100 %		+ 50	1,882,500,010	10	0.0000005
BATT. ENDPOINT	3.40	+ 20	1,882,500,008	8	0.0000004

Table 7-193. Frequency Stability Data (Band 25/2 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 25/2 Frequency Stability Measurements

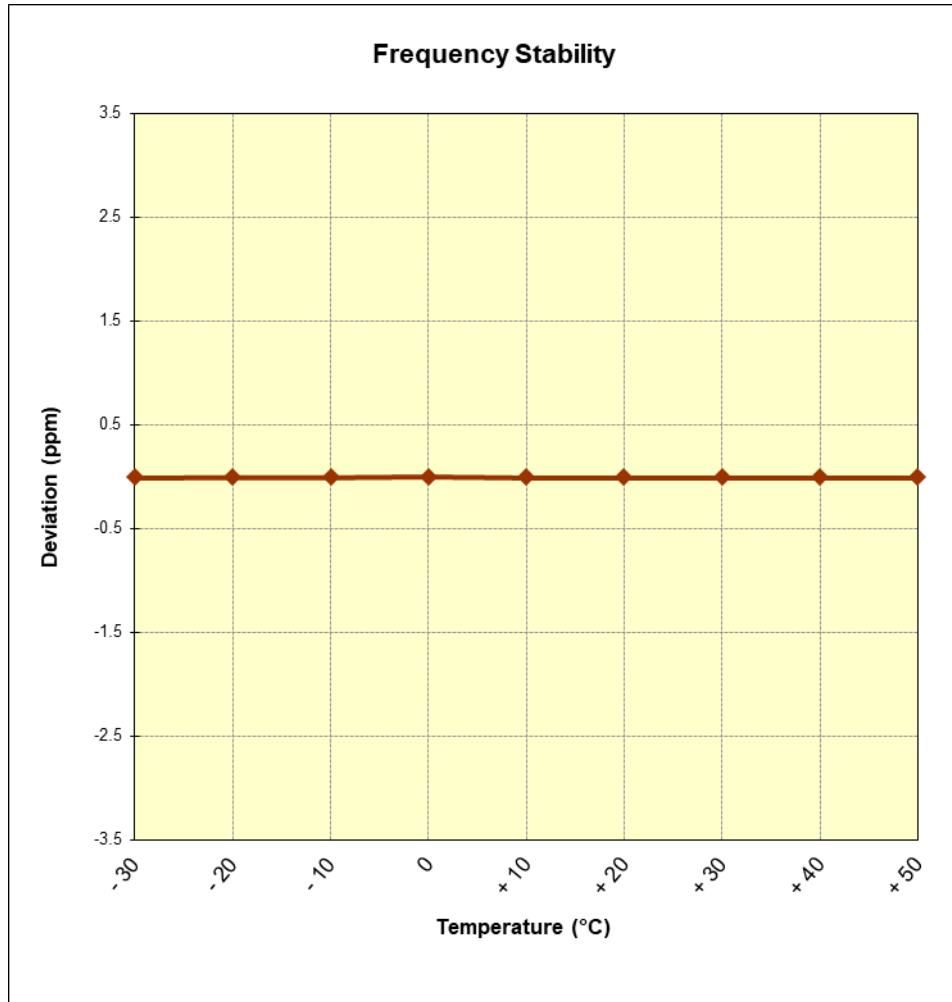


Figure 7-16. Frequency Stability Graph (Band 25/2 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	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	2,310,000,010	10	0.0000004
100 %		- 20	2,310,000,009	9	0.0000004
100 %		- 10	2,310,000,005	5	0.0000002
100 %		0	2,310,000,005	5	0.0000002
100 %		+ 10	2,310,000,012	12	0.0000005
100 %		+ 20	2,310,000,003	3	0.0000001
100 %		+ 30	2,310,000,007	7	0.0000003
100 %		+ 40	2,310,000,006	6	0.0000003
100 %		+ 50	2,310,000,008	8	0.0000003
BATT. ENDPOINT	3.40	+ 20	2,310,000,003	3	0.0000001

Table 7-194. Frequency Stability Data (Band 30 - 10MHz QPSK - Full RB Configuration)

Note:

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 30 Frequency Stability Measurements

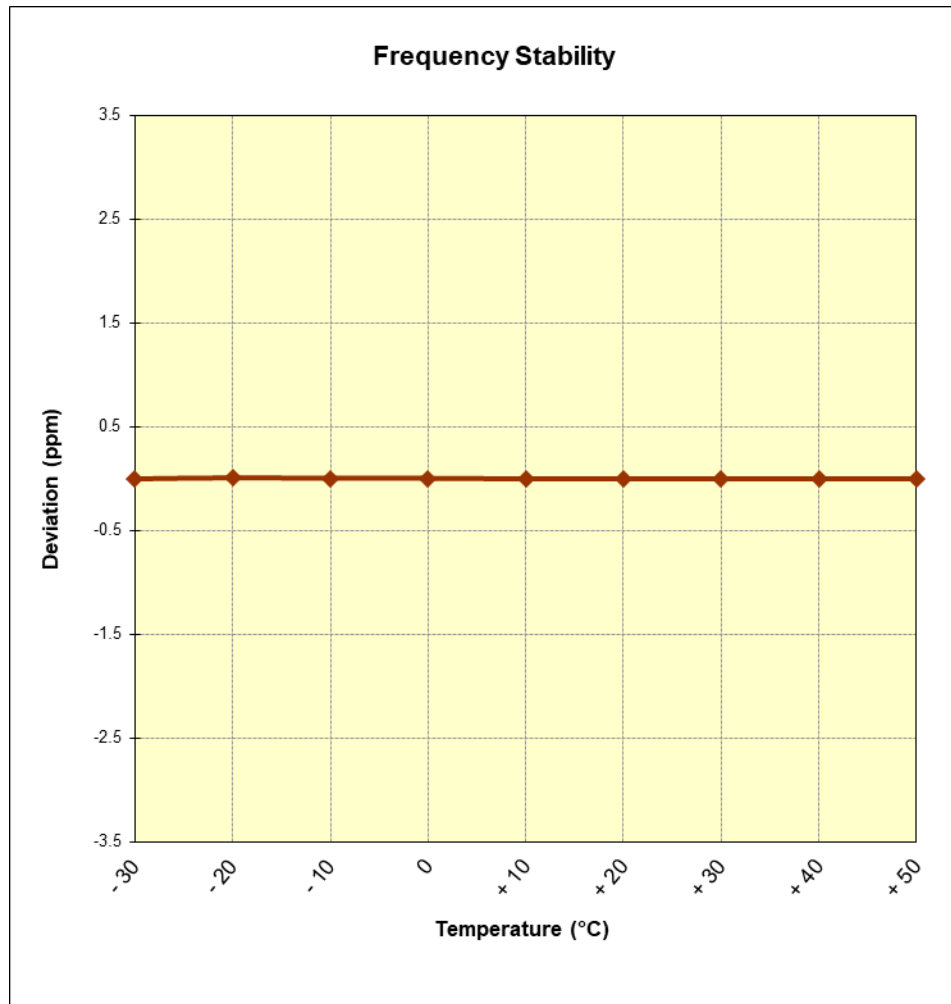


Figure 7-17. Frequency Stability Graph (Band 30 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 7 Frequency Stability Measurements

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

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,534,999,996	-4	-0.0000001
100 %		- 20	2,535,000,003	3	0.0000001
100 %		- 10	2,535,000,003	3	0.0000001
100 %		0	2,535,000,003	3	0.0000001
100 %		+ 10	2,535,000,002	2	0.0000001
100 %		+ 20	2,535,000,003	3	0.0000001
100 %		+ 30	2,535,000,003	3	0.0000001
100 %		+ 40	2,535,000,003	3	0.0000001
100 %		+ 50	2,535,000,003	3	0.0000001
BATT. ENDPOINT	3.40	+ 20	2,535,000,002	2	0.0000001

Table 7-195. Frequency Stability Data (Band 7 - 20MHz QPSK - Full RB Configuration)

Note:

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 7 Frequency Stability Measurements

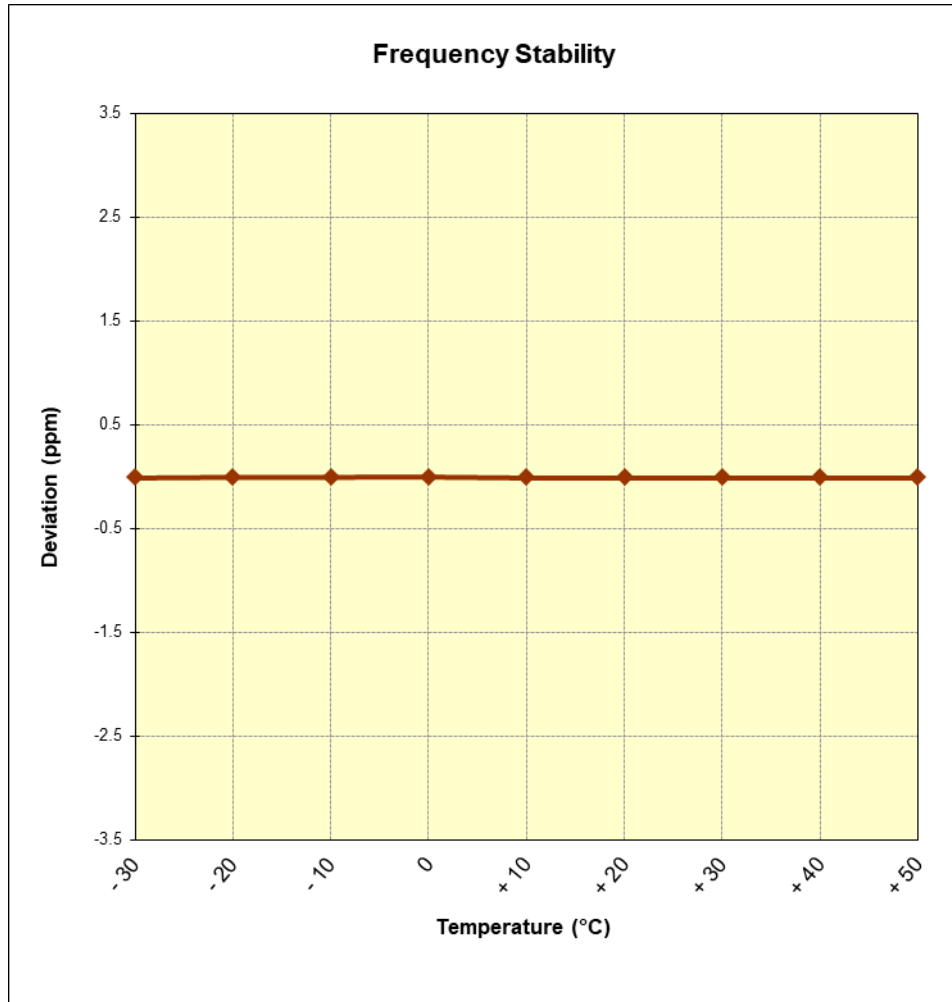


Figure 7-18. Frequency Stability Graph (Band 7 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

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

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,592,999,945	-55	-0.0000021
100 %		- 20	2,592,999,946	-54	-0.0000021
100 %		- 10	2,592,999,983	-17	-0.0000006
100 %		0	2,592,999,939	-61	-0.0000024
100 %		+ 10	2,592,999,980	-20	-0.0000008
100 %		+ 20	2,592,999,982	-18	-0.0000007
100 %		+ 30	2,592,999,983	-17	-0.0000006
100 %		+ 40	2,592,999,984	-16	-0.0000006
100 %		+ 50	2,592,999,984	-16	-0.0000006
BATT. ENDPOINT	3.40	+ 20	2,592,999,946	-54	-0.0000021

Table 7-196. Frequency Stability Data (Band 41 - 20MHz QPSK - Full RB Configuration)

Note:

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

FCC ID: BCGA2072	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Band 41 Frequency Stability Measurements

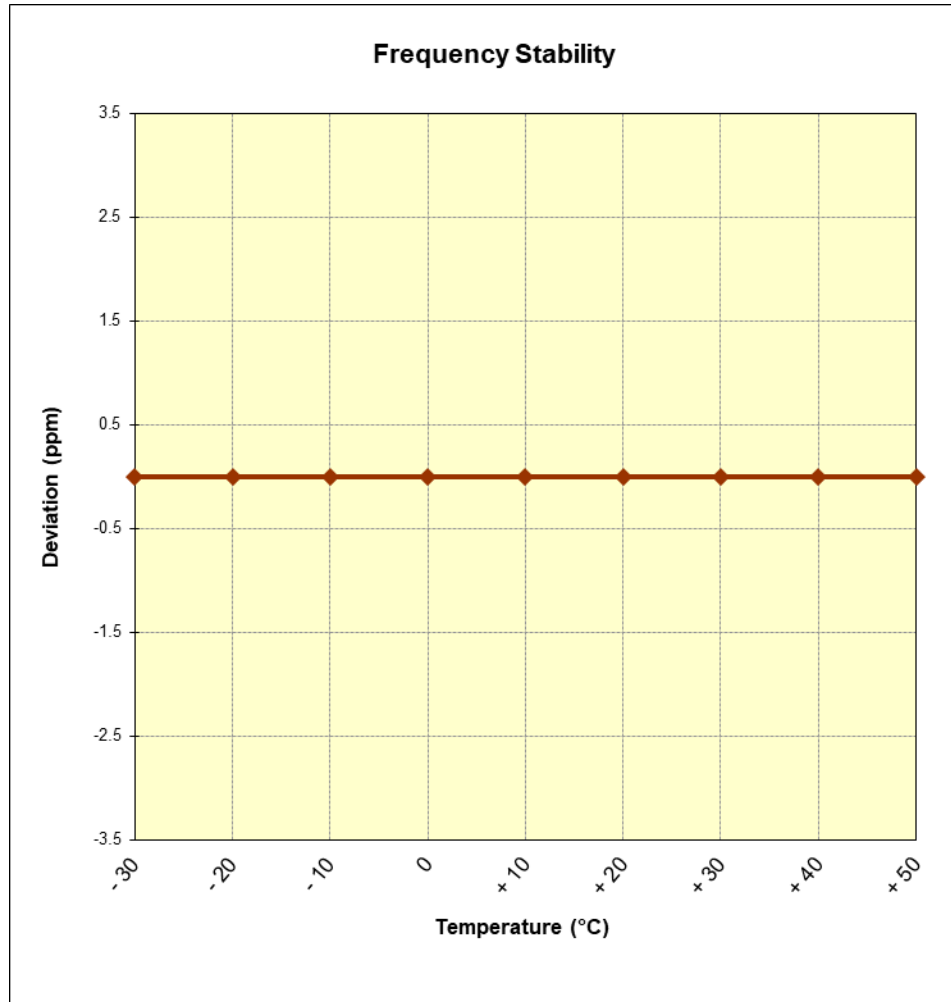


Figure 7-19. Frequency Stability Graph (Band 41 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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: BCGA2072** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

FCC ID: BCGA2072	 PCTEST [®] Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2004270030-03.BCG	Test Dates: 07/16/2020 - 09/08/2020	EUT Type: Tablet Device	Page 389 of 389