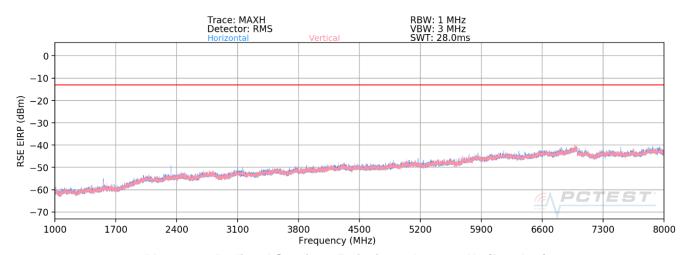


Plot 7-409. Radiated Spurious Emissions below 1GHz (Band 13)



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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 206 of 200
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OPERATING FREQUENCY: 779.50 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 5.0 MHz DISTANCE: 3 meters -13 LIMIT: 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	Ι	253	332	-54.70	3.95	-50.75	-37.8
3118.00	Ι	1	-	-67.66	6.09	-61.57	-48.6
3897.50	Η	1	-	-68.80	7.65	-61.15	-48.2
4677.00	Η	1	-	-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 MHzDISTANCE: 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	Н	118	27	-65.08	3.97	-61.11	-48.1
3128.00	Н	-	-	-68.30	6.13	-62.17	-49.2
3910.00	Н	-	-	-68.89	7.67	-61.22	-48.2
4692.00	Н	-	-	-68.47	8.57	-59.90	-46.9

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 207 of 200
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OPERATING FREQUENCY: 784.50 MHz

MODULATION SIGNAL: **QPSK** 

> 5.0 BANDWIDTH: MHz DISTANCE: 3 meters -13 LIMIT: 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	Н	204	37	-63.45	3.94	-59.51	-46.5
3138.00	Н	-	-	-68.25	6.17	-62.08	-49.1
3922.50	Н	-	-	-68.75	7.69	-61.06	-48.1
4707.00	Н	-	-	-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

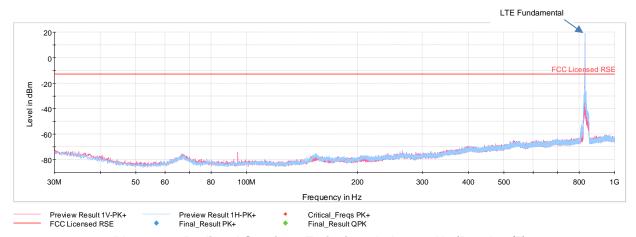
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1559.00	Н	279	238	-68.13	3.73	-64.40	-24.4
1564.00	Н	277	327	-70.42	3.71	-66.71	-26.7
1569.00	Н	286	224	-69.25	3.68	-65.57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

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

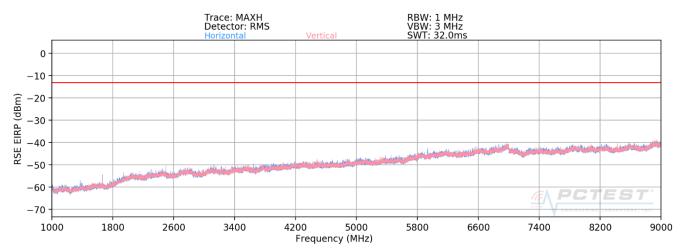
FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 298 of 389
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#### **Band 26/5**



Plot 7-411. Radiated Spurious Emissions below 1GHz (Band 26/5)



Plot 7-412. Radiated Spurious Emissions above 1GHz (Band 26/5)

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 200 of 200
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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	Н	172	184	-68.68	3.80	-64.87	-51.9
2487.00	Н	181	156	-57.41	4.34	-53.07	-40.1
3316.00	Н	-	-	-68.70	6.51	-62.19	-49.2
4145.00	Н	-	-	-68.58	7.88	-60.70	-47.7
4974.00	Н	-	-	-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	Н	183	184	-61.99	3.69	-58.29	-45.3
2509.50	Н	162	150	-61.74	4.20	-57.55	-44.5
3346.00	Н	-	-	-68.45	6.55	-61.89	-48.9
4182.50	Н	-	-	-68.30	7.97	-60.33	-47.3
5019.00	Н	-	-	-68.12	8.86	-59.26	-46.3

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

FCC ID: BCGA2072	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 300 of 389
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OPERATING FREQUENCY: 844.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 10.0 MHz DISTANCE: 3 meters LIMIT: -13 dBm

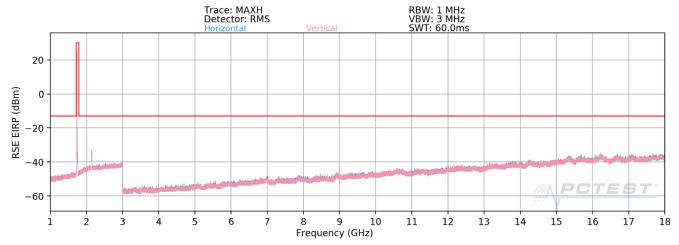
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1688.00	Н	100	166	-53.75	3.70	-50.05	-37.0
2532.00	Н	265	166	-58.85	4.36	-54.49	-41.5
3376.00	Н	-	-	-67.94	6.60	-61.35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

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 301 of 389
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#### **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	Н	-	-	-68.50	6.69	-61.81	-48.8
5160.00	Н	121	49	-58.66	9.08	-49.58	-36.6
6880.00	Н	-	-	-65.35	9.54	-55.80	-42.8
8600.00	Н	-	-	-64.51	9.65	-54.85	-41.9
10320.00	Н	-	-	-61.70	9.56	-52.14	-39.1

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 1745.00 MHz

MODULATION SIGNAL: **QPSK** 

> **BANDWIDTH:** 20.0 MHz DISTANCE: 3 meters

-13 LIMIT: 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	Н	-	-	-68.84	6.79	-62.06	-49.1
5235.00	Н	-	-	-68.82	9.16	-59.66	-46.7
6980.00	Н	-	-	-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 MHzDISTANCE: 3 meters LIMIT: -13 dBm

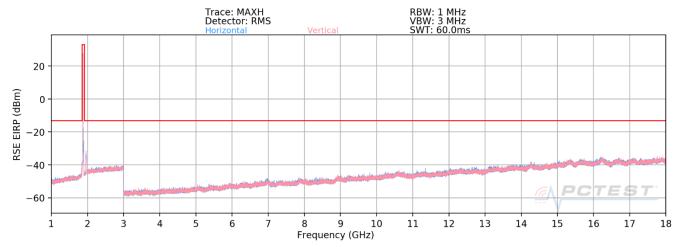
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	Н	-	-	-67.98	6.80	-61.18	-48.2
5310.00	Н	-	-	-68.40	9.11	-59.28	-46.3
7080.00	Н	-	-	-66.48	9.46	-57.03	-44.0

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 303 of 389
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#### **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	Η	359	159	-67.97	7.29	-60.68	-47.7
5580.00	Н	-	-	-67.98	9.37	-58.61	-45.6
7440.00	Η	-	-	-65.46	9.44	-56.02	-43.0
9300.00	Н	-	-	-62.83	9.53	-53.30	-40.3

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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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	Η	351	148	-68.09	7.30	-60.79	-47.8
5647.50	Η	-	-	-68.82	9.37	-59.45	-46.5
7530.00	Н	-	-	-66.01	9.44	-56.56	-43.6
9412.50	Н	-	-	-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 MHzDISTANCE: 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	Н	-	-	-68.55	7.37	-61.17	-48.2
5715.00	Н	-	-	-68.12	9.38	-58.74	-45.7
7620.00	Н	-	-	-65.78	9.38	-56.40	-43.4

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

FCC ID: BCGA2072	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 305 of 389
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OPERATING FREQUENCY: MHz 2307.50

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 5.0 MHz DISTANCE: 3 meters -40 LIMIT: 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	Ι	149	306	-67.50	8.42	-59.07	-19.1
6922.50	Ι	-	-	-65.12	9.51	-55.61	-15.6
9230.00	Ι	-	-	-62.45	9.54	-52.92	-12.9
11537.50	Н	-	-	-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	Н	107	312	-67.43	8.44	-59.00	-19.0
6930.00	Н	-	-	-62.37	9.51	-52.87	-12.9
9240.00	Η	-	-	-62.52	9.54	-52.99	-13.0
11550.00	Н	-	-	-60.58	9.56	-51.02	-11.0

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 206 of 200
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OPERATING FREQUENCY: 2312.50 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 5.0 MHz DISTANCE: 3 meters

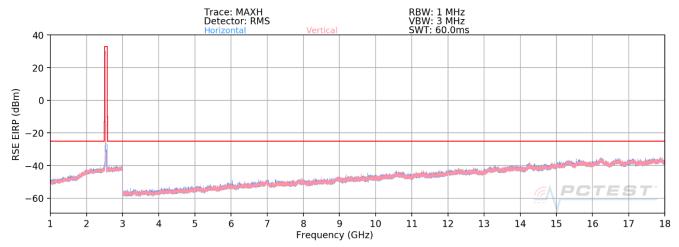
LIMIT: -40 dBm

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	Н	111	294	-67.66	8.45	-59.21	-19.2
6937.50	Н	-	-	-64.77	9.50	-55.26	-15.3
9250.00	Н	-	-	-62.72	9.54	-53.18	-13.2
11562.50	Н	-	-	-60.37	9.55	-50.81	-10.8

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 307 of 389
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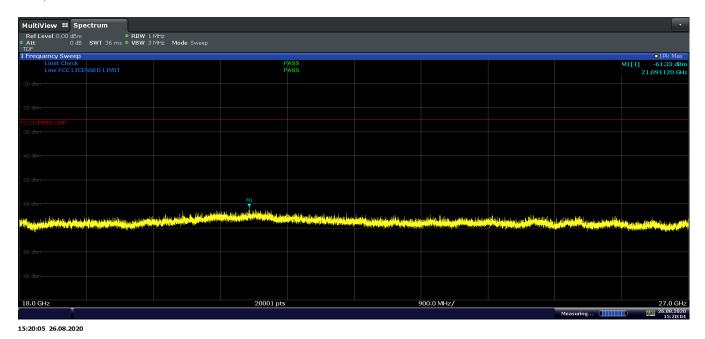




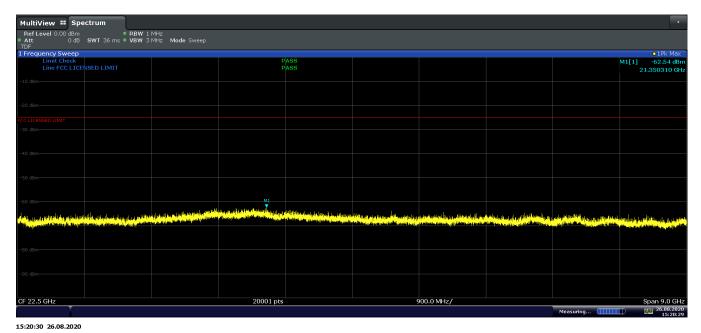
Plot 7-415. Radiated Spurious Emissions 1GHz - 18GHz (Band 7)

FCC ID: BCGA2072	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 308 of 389
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Plot 7-416. Radiated Spurious Emissions Above 18GHz (Band 7, Pol H)



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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 309 of 389
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OPERATING FREQUENCY: 2510.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters

-25 LIMIT: 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	Н	-	-	-68.10	8.86	-59.24	-34.2
7530.00	Н	1	-	-65.83	9.44	-56.38	-31.4
10040.00	Η	1	-	-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	Н	-	-	-67.65	8.94	-58.71	-33.7
7605.00	Н	-	-	-65.73	9.37	-56.36	-31.4
10140.00	Н	-	-	-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 MHzDISTANCE: 3 meters -25 LIMIT: 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	Н	-	-	-68.05	9.01	-59.04	-34.0
7680.00	Η	1	1	-65.03	9.40	-55.62	-30.6
10240.00	Н	-	-	-61.67	9.56	-52.11	-27.1

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 210 of 200
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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	-	-	-61.62	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 3 DISTANCE: meters -25 LIMIT: 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	Proud to be part of @ element		
Test Report S/N:	Test Dates:	EUT Type:	Dogg 244 of 200
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OPERATING FREQUENCY: 2680.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 242 of 200
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## **Antenna 3b Radiated Spurious Emissions Measurements**

#### **Band 12/17**

OPERATING FREQUENCY: 704.00 MHz

**QPSK** MODULATION SIGNAL:

> BANDWIDTH: 10.0 MHzDISTANCE: 3 meters -13 LIMIT: 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	Η	1	-	-70.51	3.20	-67.31	-54.3
2112.00	Ι	150	91	-63.26	3.13	-60.14	-47.1
2816.00	Ι	ı	-	-67.20	5.31	-61.88	-48.9
3520.00	Ι	ı	-	-67.70	6.80	-60.89	-47.9
4224.00	Н	-	-	-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	Ι	249	338	-70.49	3.26	-67.23	-54.2
2122.50	Η	290	150	-66.72	3.18	-63.54	-50.5
2830.00	Н	-	-	-67.21	5.30	-61.91	-48.9
3537.50	Η	•	-	-67.96	6.80	-61.17	-48.2
4245.00	Н	-	-	-68.47	8.05	-60.41	-47.4

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 212 of 200
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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	Η	258	168	-66.00	3.35	-62.65	-49.6
2133.00	Ι	293	306	-62.00	3.23	-58.77	-45.8
2844.00	Ι	ı	-	-67.30	5.37	-61.93	-48.9
3555.00	Ι	ı	-	-67.90	6.81	-61.09	-48.1
4266.00	Ι	ı	-	-68.32	8.05	-60.27	-47.3

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 214 of 200
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OPERATING FREQUENCY: 779.50 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 5.0 MHzDISTANCE: 3 meters -13 LIMIT: 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	1	-	-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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 245 of 200
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OPERATING FREQUENCY: 784.50 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 5.0 MHz DISTANCE: 3 meters -13 LIMIT: 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	Н	220	20	-70.54	3.73	-66.81	-26.8
1564.00	Η	223	54	-69.25	3.71	-65.54	-25.5
1569.00	Н	249	20	-68.77	3.68	-65.09	-25.1

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 216 of 200	
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#### **Band 26/5**

OPERATING FREQUENCY: 829.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 10.0 MHzDISTANCE: 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	Ι	347	215	-50.54	3.80	-46.73	-33.7
2487.00	Ι	125	282	-60.30	4.34	-55.96	-43.0
3316.00	Ι	107	49	-56.61	6.51	-50.10	-37.1
4145.00	Η	-	-	-68.66	7.88	-60.78	-47.8
4974.00	Н	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	Н	103	13	-67.15	3.69	-63.45	-50.5
2509.50	Н	121	141	-56.53	4.20	-52.34	-39.3
3346.00	Н	-	-	-68.23	6.55	-61.67	-48.7
4182.50	Н	-	-	-68.20	7.97	-60.23	-47.2
5019.00	Н	_	-	-68.09	8.86	-59.23	-46.2

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 217 of 200	
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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	Η	352	212	-48.84	3.70	-45.14	-32.1
2532.00	>	359	273	-61.01	4.36	-56.65	-43.7
3376.00	>	1	-	-58.17	6.60	-51.58	-38.6
4220.00	>	1	-	-57.73	8.03	-49.70	-36.7
5064.00	<b>V</b>	1	-	-64.59	8.93	-55.66	-42.7

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 240 of 200
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# **Antenna 2a Radiated Spurious Emissions Measurements**

#### **Band 66/4**

OPERATING FREQUENCY: 1720.00 MHz

MODULATION SIGNAL: **QPSK** 

> 20.0 BANDWIDTH: MHzDISTANCE: 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	Η	319	334	-67.46	6.69	-60.77	-47.8
5160.00	Н	356	334	-58.50	9.08	-49.42	-36.4
6880.00	Н	-	-	-65.42	9.54	-55.87	-42.9
8600.00	Н	-	-	-64.39	9.65	-54.73	-41.7
10320.00	Н	-	-	-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	Н	347	339	-66.56	6.79	-59.78	-46.8
5235.00	Н	369	326	-61.73	9.16	-52.57	-39.6
6980.00	Н	-	-	-64.61	9.49	-55.12	-42.1
8725.00	Н	-	-	-64.54	9.63	-54.91	-41.9
10470.00	Н	-	-	-60.68	9.46	-51.22	-38.2

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N: Test Dates:		EUT Type:	Dogo 210 of 200	
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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	Η	268	337	-65.97	6.80	-59.17	-46.2
5310.00	Ι	369	355	-65.92	9.11	-56.80	-43.8
7080.00	Ι	-	-	-66.26	9.46	-56.81	-43.8
8850.00	Н	-	-	-64.64	9.58	-55.06	-42.1
10620.00	Н	-	-	-60.64	9.42	-51.23	-38.2

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 220 of 280	
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#### **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	Н	264	95	-67.01	7.29	-59.72	-46.7
5580.00	Н	-	-	-67.37	9.37	-58.00	-45.0
7440.00	Н	-	-	-65.60	9.44	-56.16	-43.2
9300.00	Н	-	-	-62.82	9.53	-53.29	-40.3

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

OPERATING FREQUENCY:  $\mathsf{MHz}$ 1882.50

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHzDISTANCE: 3 meters -13 LIMIT: 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	Н	-	-	-68.21	7.30	-60.91	-47.9
5647.50	Н	-	-	-68.72	9.37	-59.35	-46.4
7530.00	Н	-	-	-66.00	9.44	-56.55	-43.6

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 221 of 200
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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	Н	-	-	-68.54	7.37	-61.16	-48.2
5715.00	Η	-	-	-68.03	9.38	-58.65	-45.6
7620.00	Ι	1	-	-65.70	9.38	-56.32	-43.3

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 322 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	Н	-	-	-68.55	8.42	-60.12	-20.1
6922.50	Н	-	-	-65.22	9.51	-55.71	-15.7
9230.00	Н	-	-	-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 MHzDISTANCE: 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	Н	121	58	-64.82	8.44	-56.39	-16.4
6930.00	Н	-	-	-64.93	9.51	-55.43	-15.4
9240.00	Н	-	-	-62.57	9.54	-53.04	-13.0

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

FCC ID: BCGA2072	Proud to be part of @ element		
Test Report S/N:	Test Dates:	EUT Type:	Dogg 222 of 200
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OPERATING FREQUENCY: 2312.50 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 5.0 MHz DISTANCE: 3 meters

-40 LIMIT: 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	Η	-	-	-68.58	8.45	-60.13	-20.1
6937.50	Н	-	-	-64.81	9.50	-55.30	-15.3
9250.00	Н	-	-	-62.83	9.54	-53.29	-13.3

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

FCC ID: BCGA2072	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 224 of 200
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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	V	-	-	-68.15	8.86	-59.29	-34.3
7530.00	V		-	-65.99	9.44	-56.54	-31.5
10040.00	V	1	-	-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 3 DISTANCE: meters -25 LIMIT: 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	Proud to be part of @ element	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 225 of 200
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OPERATING FREQUENCY: 2560.00 MHz

MODULATION SIGNAL: **QPSK** 

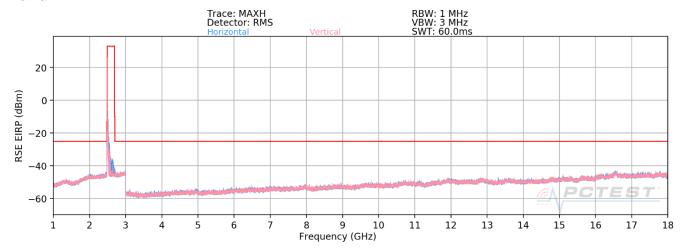
> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: dBm

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	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Done 220 of 200
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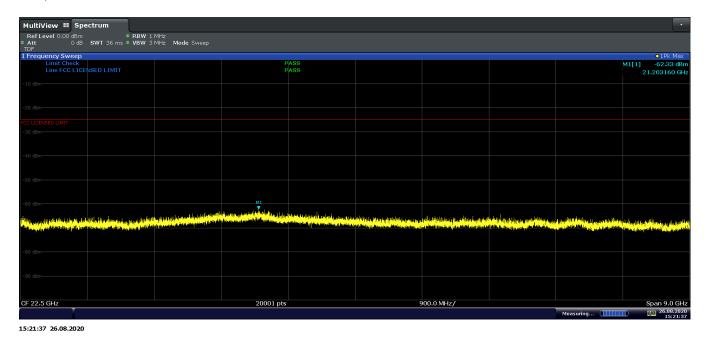




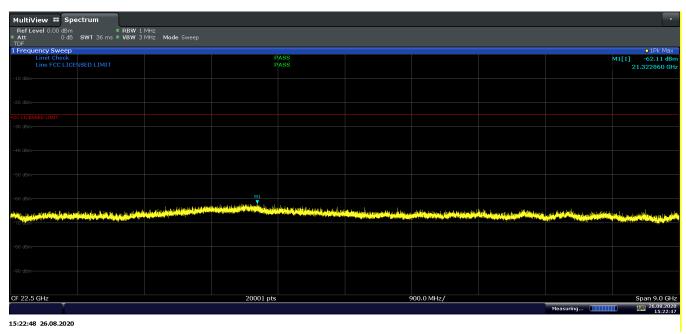
Plot 7-418. Radiated Spurious Emissions 1GHz - 18GHz (Band 41)

FCC ID: BCGA2072	Proud to be part of @ element	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 227 of 200
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Plot 7-419. Radiated Spurious Emissions Above 18GHz (Band 41, Pol H)



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

FCC ID: BCGA2072	Proud to be part of @ element	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 229 of 290
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OPERATING FREQUENCY: 2506.00 MHz

MODULATION SIGNAL: **QPSK** 

> 20.0 **BANDWIDTH:** 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 MHzDISTANCE: 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	Proud to be part of @ element	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 329 of 389
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# **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	Η	166	36	-67.91	6.69	-61.22	-48.2
5160.00	Ι	363	58	-62.72	9.08	-53.64	-40.6
6880.00	Ι	-	-	-65.22	9.54	-55.67	-42.7
8600.00	Н	-	-	-64.47	9.65	-54.81	-41.8
10320.00	Н	-	-	-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	Н	111	55	-67.26	6.79	-60.48	-47.5
5235.00	Н	147	74	-62.90	9.16	-53.74	-40.7
6980.00	Н	-	-	-64.49	9.49	-55.00	-42.0
8725.00	Н	-	-	-64.56	9.63	-54.93	-41.9
10470.00	Н	-	-	-60.96	9.46	-51.50	-38.5

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

FCC ID: BCGA2072	Proud to be part of @ element	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 330 of 389
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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	Η	356	74	-67.15	6.80	-60.35	-47.3
5310.00	Ι	325	45	-63.71	9.11	-54.59	-41.6
7080.00	Ι	-	-	-66.50	9.46	-57.05	-44.0
8850.00	Ι	-	-	-64.89	9.58	-55.31	-42.3
10620.00	Ι	-	-	-60.63	9.42	-51.22	-38.2

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 331 of 389	
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# **Band 25/2**

OPERATING FREQUENCY: 1860.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -13 LIMIT: 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	Н	-	-	-68.65	7.29	-61.36	-48.4
5580.00	Н	135	335	-50.94	9.37	-41.57	-28.6
7440.00	Н	-	-	-65.47	9.44	-56.03	-43.0
9300.00	Η	-	-	-62.72	9.53	-53.19	-40.2
11160.00	Н	-	-	-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	Ι	ı	-	-68.36	7.30	-61.06	-48.1
5647.50	Ι	226	297	-52.07	9.37	-42.70	-29.7
7530.00	Ι	ı	-	-65.85	9.44	-56.40	-43.4
9412.50	Ι	ı	-	-62.54	9.56	-52.99	-40.0
11295.00	Ι	ı	-	-60.17	9.63	-50.54	-37.5

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 222 of 200
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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	Η	-	-	-69.56	7.37	-62.18	-49.2
5715.00	Н	260	276	-53.93	9.38	-44.55	-31.5
7620.00	Η	-	-	-65.51	9.38	-56.13	-43.1
9525.00	Η	-	-	-62.79	9.56	-53.23	-40.2

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 333 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	-	-	-68.50	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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 224 of 200
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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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 335 of 389
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OPERATING FREQUENCY: 2510.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHzDISTANCE: 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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OPERATING FREQUENCY: 2560.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 227 of 200
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OPERATING FREQUENCY: 2506.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHzDISTANCE: 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	Η	159	350	-57.22	8.85	-48.37	-23.4
7518.00	Η	-	-	-60.76	9.44	-51.32	-26.3
10024.00	Ι	-	-	-59.12	9.54	-49.58	-24.6
12530.00	Н	-	-	-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	Н	-	-	-62.08	9.13	-52.95	-28.0
7779.00	Н	-	-	-60.67	9.38	-51.29	-26.3
10372.00	Η	1	-	-58.48	9.52	-48.95	-24.0
12965.00	Н	1	-	-55.99	9.17	-46.83	-21.8
15558.00	Н	-	-	-53.84	8.75	-45.09	-20.1

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 338 of 389
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OPERATING FREQUENCY: 2680.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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	Н	-	-	-61.08	9.13	-51.96	-27.0
8040.00	Н	-	-	-60.34	9.41	-50.93	-25.9
10720.00	Н	-	-	-57.37	9.49	-47.87	-22.9
13400.00	Н	-	-	-56.96	9.03	-47.93	-22.9

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 220 of 200
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# **Antenna 3a Radiated Spurious Emissions Measurements**

#### **Band 66/4**

OPERATING FREQUENCY: 1720.00 MHz

MODULATION SIGNAL: **QPSK** 

> 20.0 BANDWIDTH: 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	Н	-	-	-68.39	6.69	-61.70	-48.7
5160.00	Н	-	-	-68.29	9.08	-59.21	-46.2
6880.00	Н	-	-	-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 -13 LIMIT: 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	Н	-	-	-68.74	6.79	-61.96	-49.0
5235.00	Н	-	-	-68.57	9.16	-59.41	-46.4
6980.00	Н	-	-	-64.76	9.49	-55.27	-42.3

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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 240 of 200
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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	Н	-	-	-67.95	6.80	-61.15	-48.1
5310.00	Η	1	-	-68.38	9.11	-59.26	-46.3
7080.00	Ι	1	-	-66.53	9.46	-57.08	-44.1

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

FCC ID: BCGA2072	Proud to be part of @ element	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dags 244 of 200
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# **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	Ι	-	-	-68.87	7.29	-61.58	-48.6
5580.00	Η	•	-	-67.96	9.37	-58.59	-45.6
7440.00	Ι	ı	-	-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 3 DISTANCE: 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	Н	-	-	-68.13	7.30	-60.83	-47.8
5647.50	Η	-	-	-68.59	9.37	-59.22	-46.2
7530.00	Н	-	-	-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 @ seement (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 242 of 200
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OPERATING FREQUENCY: 1905.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters

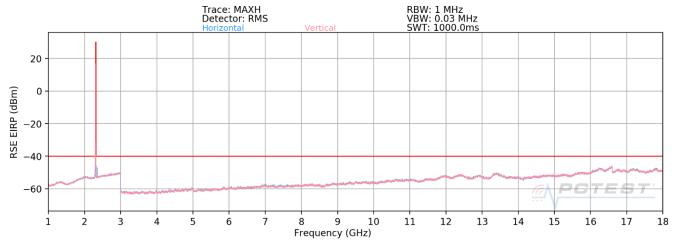
LIMIT: -13 dBm

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	Η	ı	-	-68.53	7.37	-61.15	-48.2
5715.00	Н	1	-	-67.94	9.38	-58.56	-45.6
7620.00	Н	-	-	-65.69	9.38	-56.31	-43.3

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

FCC ID: BCGA2072	PCTEST: MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 343 of 389
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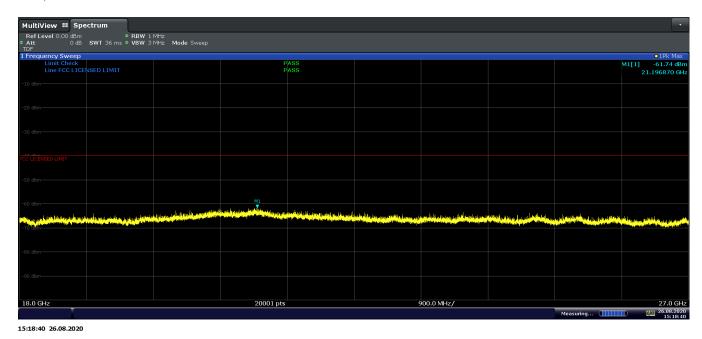




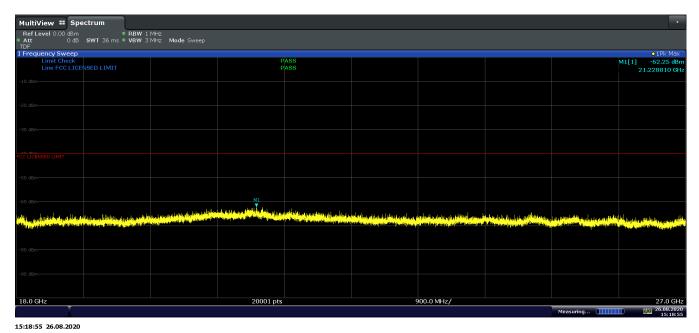
Plot 7-421. Radiated Spurious Emissions 1GHz - 18GHz (Band 30)

FCC ID: BCGA2072	PCTEST* Proud to De part of @ element (CERTIFICATION)  MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-422. Radiated Spurious Emissions Above 18GHz (Band 30, Pol H)



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

FCC ID: BCGA2072	PCTEST MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 245 of 200
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OPERATING FREQUENCY: 2307.50 MHz

MODULATION SIGNAL: **QPSK** 

> **BANDWIDTH:** 5.0 MHz 3 DISTANCE: meters

-40 LIMIT: 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	1	-	-68.63	8.42	-60.20	-20.2
6922.50	V	ı	-	-65.18	9.51	-55.67	-15.7
9230.00	V	ı	-	-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	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 346 of 389
1C2004270030-03.BCG	07/16/2020 - 09/08/2020	Tablet Device	raye 340 01 389



OPERATING FREQUENCY: 2510.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHzDISTANCE: 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	>	-	-	-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	>	-	-	-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	PCTEST* Proud to De port of @ element (CERTIFICATION)  MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 247 of 200
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OPERATING FREQUENCY: 2560.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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	>	-	-	-61.86	9.56	-52.30	-27.3

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

FCC ID: BCGA2072	PCTEST* Proud to De port of @ element (CERTIFICATION)  MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 348 of 389
1C2004270030-03.BCG	07/16/2020 - 09/08/2020	Tablet Device	Fage 340 01 309



OPERATING FREQUENCY: 2506.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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	1	-	-58.85	9.55	-49.31	-24.3

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

OPERATING FREQUENCY: 2593.00 MHz

**QPSK** MODULATION SIGNAL:

> 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	Ι	208	168	-59.19	9.13	-50.06	-25.1
7779.00	Ι	237	168	-58.35	9.38	-48.97	-24.0
10372.00	Ι	-	-	-58.21	9.52	-48.68	-23.7
12965.00	Н	-	-	-55.73	9.17	-46.57	-21.6
15558.00	Н	-	-	-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 (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 240 of 290
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OPERATING FREQUENCY: 2680.00 MHz

MODULATION SIGNAL: **QPSK** 

> BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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	Н	-	-	-61.30	9.13	-52.18	-27.2
8040.00	Н	-	-	-60.20	9.41	-50.79	-25.8
10720.00	Н	-	-	-57.18	9.49	-47.68	-22.7

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

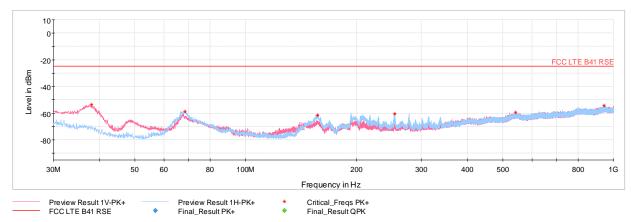
FCC ID: BCGA2072	PCTEST* Proud to be part of @ element (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 350 of 390
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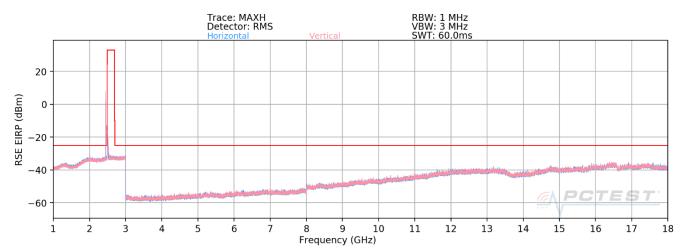
# 7.9.6 Simultaneous Tx Radiated Spurious Emissions Measurements

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



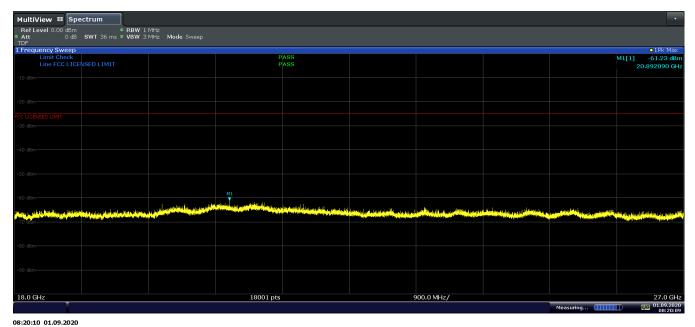
Plot 7-424. Radiated Spurious Emissions – Simultaneous Transmission 30MHz – 1GHz



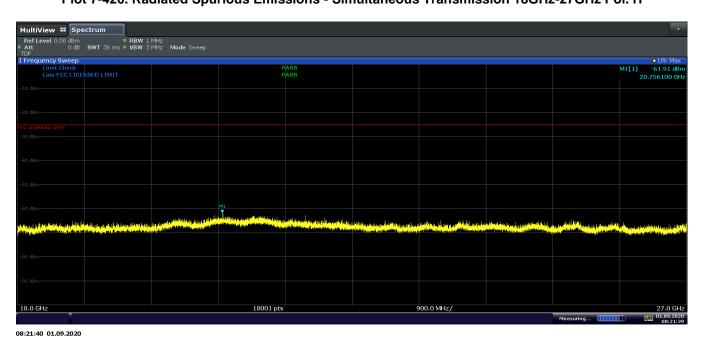
Plot 7-425. Radiated Spurious Emissions - Simultaneous Transmission 1-18GHz

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 251 of 200
1C2004270030-03.BCG	07/16/2020 - 09/08/2020	Tablet Device	Page 351 of 389





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



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

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 252 of 200
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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	Н	-	-	-78.17	4.53	33.36	53.98	-20.62
4880.00	Peak	Н	-	-	-67.85	4.53	43.68	73.98	-30.30
7320.00	Avg	Н	-	-	-79.83	9.02	36.19	53.98	-17.79
7320.00	Peak	Н	-	-	-69.25	9.02	46.77	73.98	-27.21
12200.00	Avg	Н	-	-	-81.86	17.44	42.58	53.98	-11.40
12200.00	Peak	Н	-	-	-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	Н	-	-	-62.04	8.85	-53.19	-25.0	-28.2
7518.00	Н	-	-	-60.81	9.44	-51.37	-25.0	-26.4
10024.00	Н	-	-	-58.02	9.54	-48.48	-25.0	-23.5
12530.00	Н	-	-	-53.61	9.29	-44.31	-25.0	-19.3
2382.00	Н	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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 252 of 200
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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 ≥ 3 x RBW
- 3. No. of sweep points  $\geq 2 \times \text{span} / \text{RBW}$
- 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 254 of 200
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@ 2020 DCTECT			V/ 40 2 04/22/2020



#### **Test Setup**

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

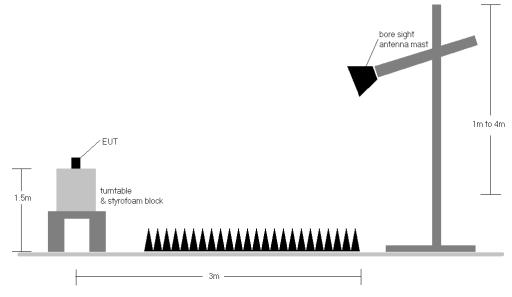


Figure 7-10. Test Instrument & Measurement Setup

#### **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 Reuse KDB defined by the FCC.

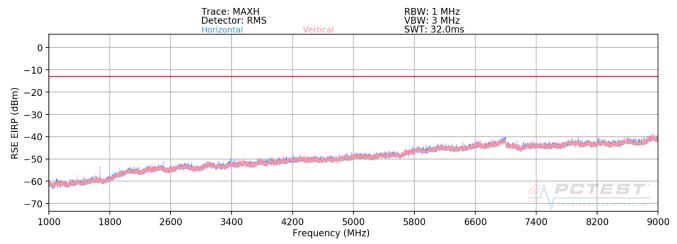
FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 355 of 389
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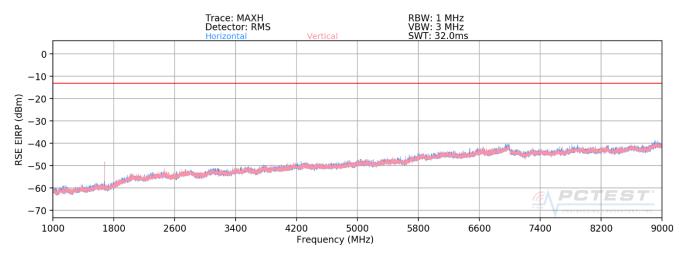


# 7.10.1 Antenna 4 Radiated Spurious Emissions Measurements

# 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 256 of 200
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OPERATING FREQUENCY (PCC): 829.00 MHz OPERATING FREQUENCY (SCC): 838.90 MHz

> MODULATION SIGNAL: **QPSK**

> > **BANDWIDTH:** 10.0 MHz DISTANCE: 3 meters LIMIT: -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	Ι	-	-	-72.69	3.80	-68.88	-55.9
2487.00	Η	-	-	-67.66	4.34	-63.32	-50.3
3316.00	Η	-	-	-69.75	6.51	-63.24	-50.2
4145.00	Ι	-	-	-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**

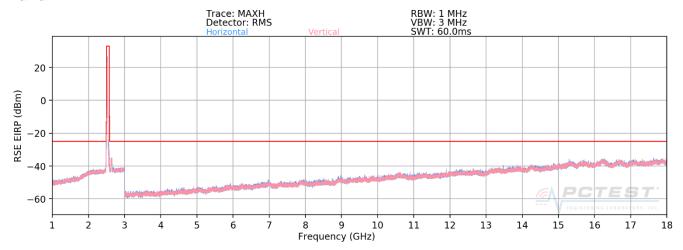
> > BANDWIDTH: 10.0 MHz DISTANCE: 3 meters LIMIT: -13 dBm

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	Н	7	19	-56.24	3.70	-52.54	-39.5
2532.00	Η	358	15	-60.40	4.36	-56.04	-43.0
3376.00	Η	-	-	-61.62	6.60	-55.03	-42.0
4220.00	Н	-	-	-63.38	8.03	-55.35	-42.4

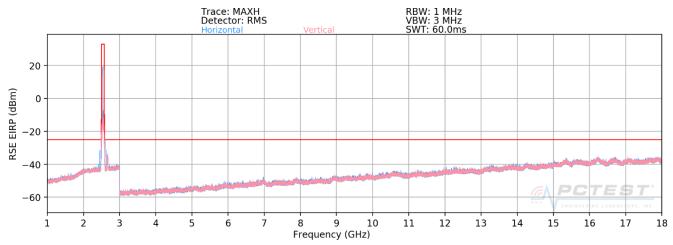
Table 7-162. Radiated Spurious Data (ULCA B5 PCC: RB 1 Offset 0, SCC: RB 1 Offset 49 - High Channel)

FCC ID: BCGA2072	PCTEST* Road to be part of @ wiennest (CERTIFICATION)  MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 257 of 200
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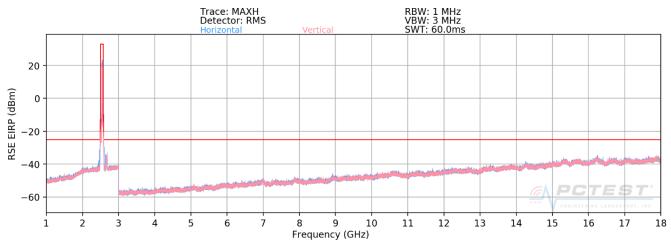




Plot 7-430. Radiated Spurious Emissions (ULCA B7 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 - Low Channel)



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* Roud to be part of @ element (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 250 of 200
1C2004270030-03.BCG	07/16/2020 - 09/08/2020	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	Н	-	-	-61.80	8.94	-52.86	-27.9
7605.00	Η	-	-	-60.51	9.37	-51.14	-26.1
10140.00	Н	-	-	-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

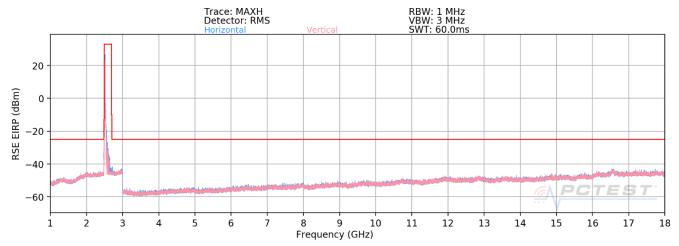
 LIMIT:
 -25
 dBm

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	Ι	1	-	-62.55	9.01	-53.54	-28.5
7680.00	Н	-	-	-61.12	9.40	-51.71	-26.7
10240.00	Н	-	-	-57.70	9.56	-48.14	-23.1

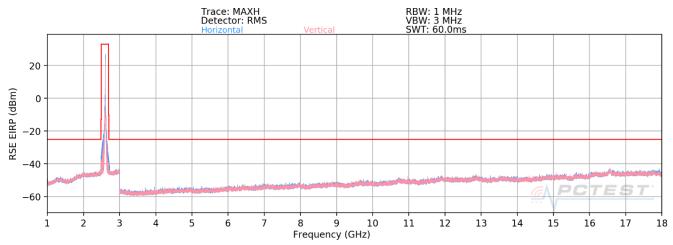
Table 7-165. Radiated Spurious Data (ULCA B7 PCC: RB 1 Offset 0, SCC: RB 1 Offset 99 - High Channel)

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 250 of 200
1C2004270030-03.BCG	07/16/2020 - 09/08/2020	Tablet Device	Page 359 of 389

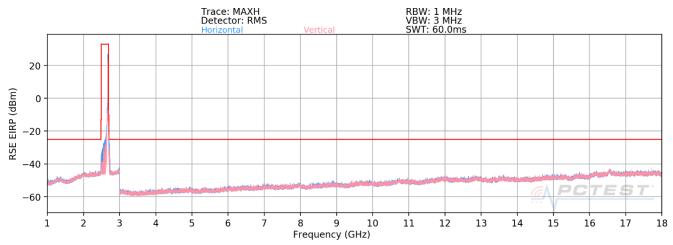




Plot 7-433. Radiated Spurious Emissions (ULCA B41 PCC: RB 1 Offset 99, SCC: RB 1 Offset 0 - Low Channel)



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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 200 of 200
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OPERATING FREQUENCY (PCC): 2506.00 MHz
OPERATING FREQUENCY (SCC): 2525.80 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 20.0 MHz
DISTANCE: 3 meters
LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	EIRP Level at Sub Ant Port [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5012.00	V	-	-	-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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 361 of 389
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# 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	Ι	315	266	-63.84	3.80	-60.03	-47.0
2487.00	Ι	301	227	-60.90	4.34	-56.56	-43.6
3316.00	Ι	-	-	-68.99	6.51	-62.48	-49.5
4145.00	Η	-	-	-69.05	7.88	-61.17	-48.2
4974.00	Н	-	-	-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	Н	150	266	-59.82	3.70	-56.12	-43.1
2532.00	Н	352	199	-63.93	4.36	-59.57	-46.6
3376.00	Н	-	-	-68.21	6.60	-61.62	-48.6
4220.00	Н	-	-	-68.73	8.03	-60.70	-47.7
5064.00	Н	-	-	-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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 262 of 200
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OPERATING FREQUENCY (PCC): 2510.00 MHz OPERATING FREQUENCY (SCC): 2529.80 MHz

> MODULATION SIGNAL: **QPSK**

> > BANDWIDTH: 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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 -25 LIMIT: 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 363 of 389
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OPERATING FREQUENCY (PCC): 2506.00 MHzOPERATING 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 364 of 389
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OPERATING FREQUENCY (PCC): MHz 2680.00 OPERATING FREQUENCY (SCC): 2660.20 MHz

> MODULATION SIGNAL: **QPSK**

> > **BANDWIDTH:** 20.0 MHz DISTANCE: 3 meters -25 LIMIT: 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
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# 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	Н	-	-	-69.05	8.94	-60.11	-35.1
7605.00	Н	-	-	-65.44	9.37	-56.07	-31.1
10140.00	Н	-	-	-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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 266 of 200
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OPERATING FREQUENCY (PCC): MHz 2560.00 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	Н	-	-	-68.91	9.01	-59.90	-34.9
7680.00	Н	-	-	-65.34	9.40	-55.93	-30.9
10240.00	Н	-	-	-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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 267 of 200
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#### 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	Н	-	-	-61.18	8.85	-52.33	-27.3
7518.00	Н	-	-	-60.56	9.44	-51.12	-26.1
10024.00	Н	-	-	-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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 368 of 389	
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## 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 260 of 200	
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OPERATING FREQUENCY (PCC): MHz 2560.00 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dags 270 of 200	
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#### 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

Frequence [MHz]	y 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	Н	-	-	-61.27	8.85	-52.42	-27.4
7518.00	Н	-	-	-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

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 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 271 of 200
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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  $\pm 0.00025\%$  ( $\pm 2.5$  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.

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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 %		- 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 %	3.80	+ 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.

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# **Band 12/17 Frequency Stability Measurements**

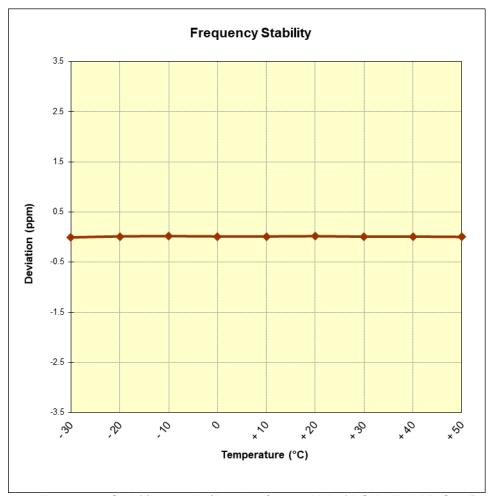


Figure 7-12. Frequency Stability Graph (Band 12/17 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	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 %		- 30	782,000,008	8	0.0000010
100 %		- 20	782,000,012	12	0.0000015
100 %		- 10	782,000,001	1	0.000001
100 %		0	782,000,001	1	0.000001
100 %	3.80	+ 10	782,000,001	1	0.0000002
100 %		+ 20	782,000,008	8	0.0000010
100 %		+ 30	782,000,004	4	0.000005
100 %		+ 40	782,000,002	2	0.000003
100 %		+ 50	782,000,001	1	0.000002
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.

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# **Band 13 Frequency Stability Measurements**

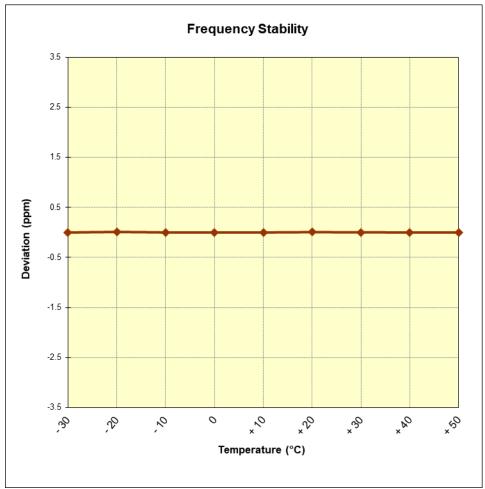


Figure 7-13. Frequency Stability Graph (Band 13 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	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: **VDC** 3.80

**DEVIATION LIMIT:** ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %		- 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 %	3.80	+ 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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# **Band 26/5 Frequency Stability Measurements**

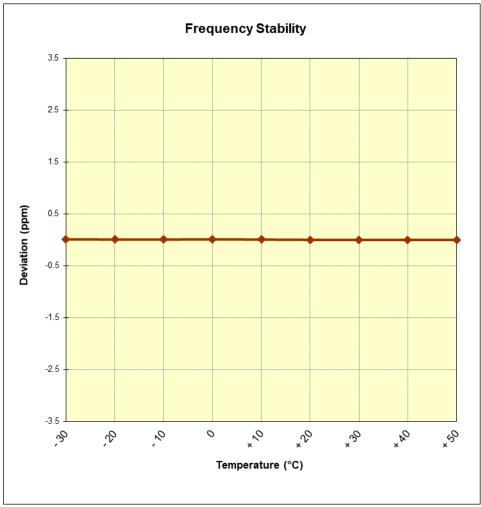


Figure 7-14. Frequency Stability Graph (Band 26/5 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	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 %		- 30	1,745,000,008	8	0.0000005
100 %		- 20	1,745,000,006	6	0.000003
100 %		- 10	1,745,000,006	6	0.0000003
100 %		0	1,745,000,004	4	0.0000002
100 %	3.80	+ 10	1,745,000,009	9	0.000005
100 %		+ 20	1,744,999,999	-1	-0.0000001
100 %		+ 30	1,745,000,004	4	0.000003
100 %		+ 40	1,745,000,007	7	0.000004
100 %		+ 50	1,745,000,008	8	0.000005
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.

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# **Band 66/4 Frequency Stability Measurements**

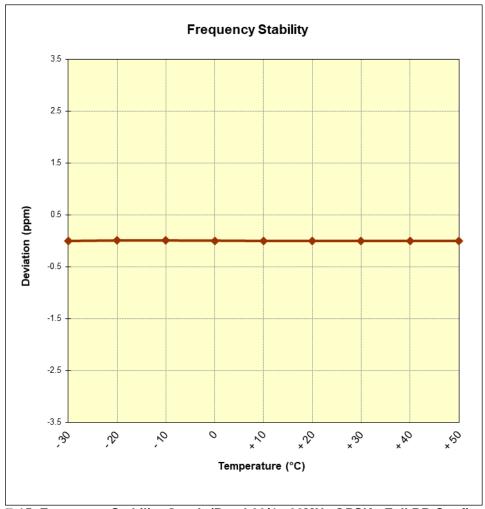


Figure 7-15. Frequency Stability Graph (Band 66/4 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	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: **VDC** 3.80

**DEVIATION LIMIT:** ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %		- 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 %	3.80	+ 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	0.000005
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	Proud to be part of @ element		
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# **Band 25/2 Frequency Stability Measurements**

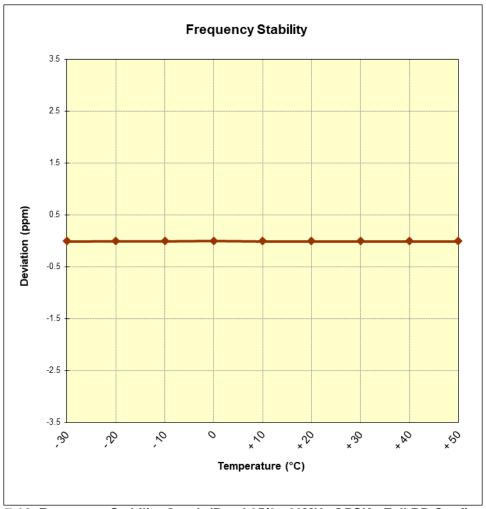


Figure 7-16. Frequency Stability Graph (Band 25/2 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	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 %		- 30	2,310,000,010	10	0.000004
100 %		- 20	2,310,000,009	9	0.000004
100 %		- 10	2,310,000,005	5	0.0000002
100 %		0	2,310,000,005	5	0.0000002
100 %	3.80	+ 10	2,310,000,012	12	0.000005
100 %		+ 20	2,310,000,003	3	0.000001
100 %		+ 30	2,310,000,007	7	0.000003
100 %		+ 40	2,310,000,006	6	0.000003
100 %		+ 50	2,310,000,008	8	0.000003
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	Proud to be part of @ element		
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# **Band 30 Frequency Stability Measurements**

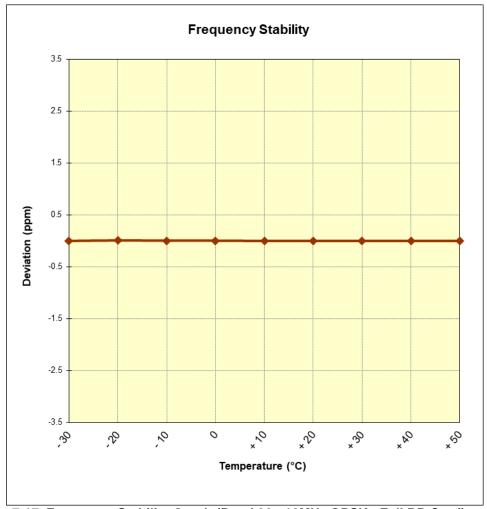


Figure 7-17. Frequency Stability Graph (Band 30 - 10MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	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 %		- 30	2,534,999,996	-4	-0.0000001
100 %		- 20	2,535,000,003	3	0.000001
100 %		- 10	2,535,000,003	3	0.000001
100 %		0	2,535,000,003	3	0.000001
100 %	3.80	+ 10	2,535,000,002	2	0.0000001
100 %		+ 20	2,535,000,003	3	0.0000001
100 %		+ 30	2,535,000,003	3	0.000001
100 %		+ 40	2,535,000,003	3	0.000001
100 %		+ 50	2,535,000,003	3	0.0000001
BATT. ENDPOINT	3.40	+ 20	2,535,000,002	2	0.000001

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	Proud to be part of @ element		
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# **Band 7 Frequency Stability Measurements**

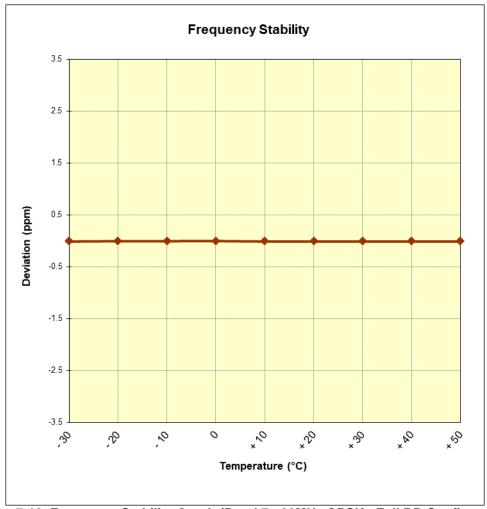


Figure 7-18. Frequency Stability Graph (Band 7 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	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 %		- 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 %	3.80	+ 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 207 of 200
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# **Band 41 Frequency Stability Measurements**

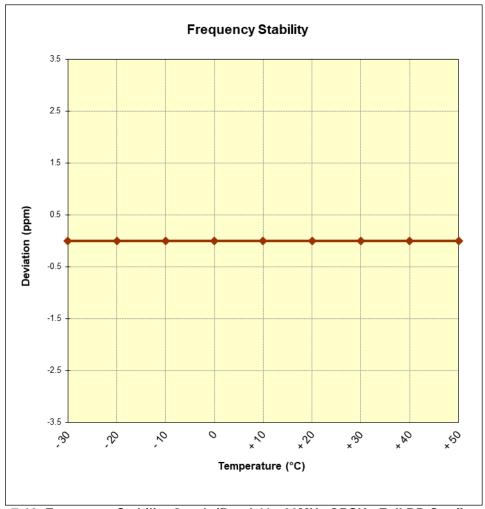


Figure 7-19. Frequency Stability Graph (Band 41 - 20MHz QPSK - Full RB Configuration)

FCC ID: BCGA2072	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## 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	Proud to be part of @ element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 200 of 200
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