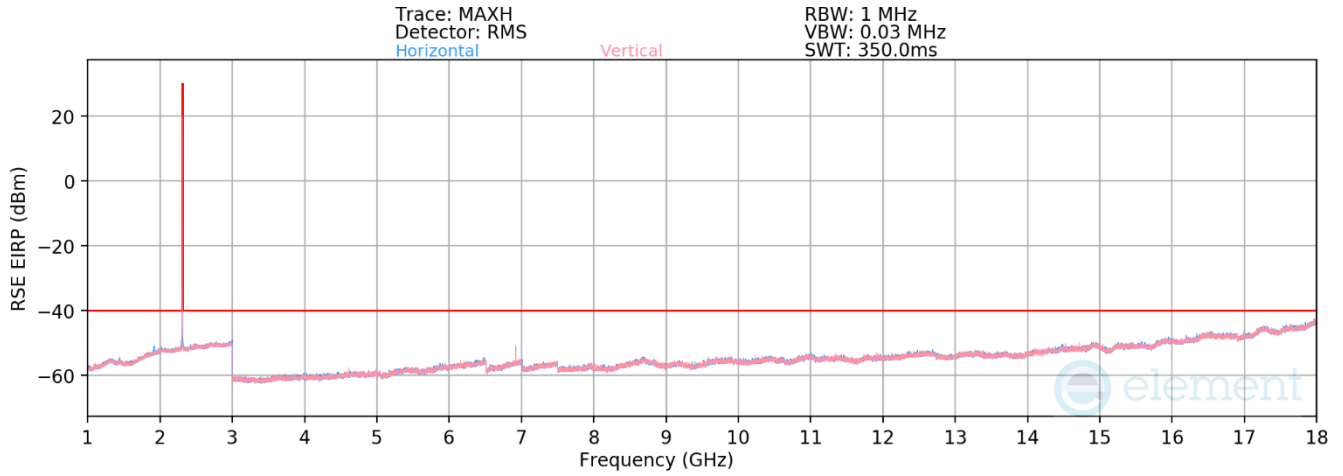
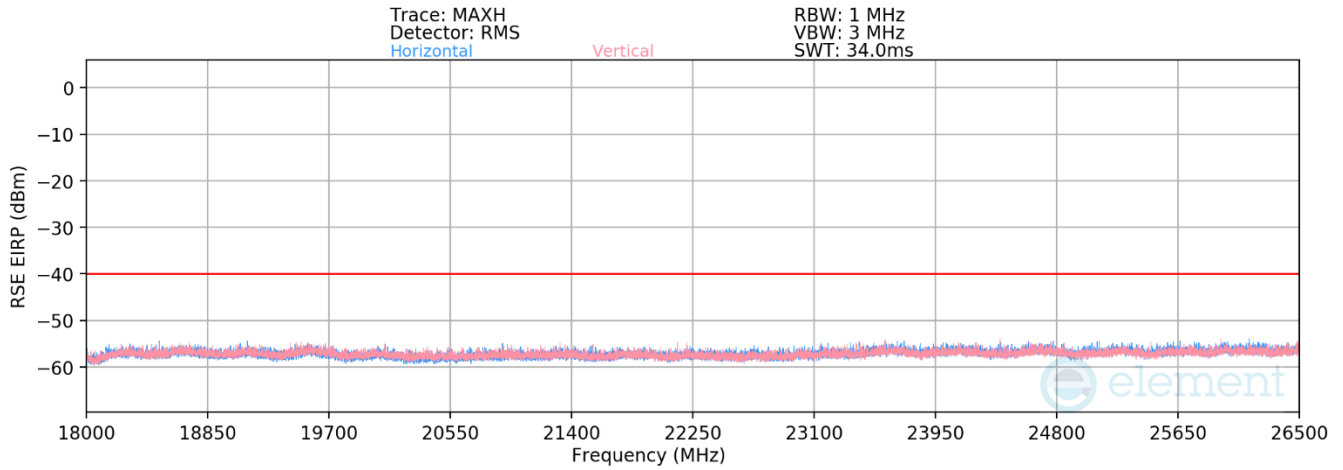


NR Band n30



Plot 7-917. Antenna 2b Radiated Spurious Plot 1GHz – 18GHz (NR Band n30)



Plot 7-918. Antenna 2b Radiated Spurious Emission above 18GHz (NR Band n30, Pol. H/V)

FCC ID: BCGA2903	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-10-R1.BCG	Test Dates: 10/1/2023 - 03/04/2024	EUT Type: Tablet Device	Page 539 of 572

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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	312	221	-75.05	5.02	36.97	-58.29	-40.00	-18.29
6922.5	V	284	181	-74.70	8.26	40.56	-54.70	-40.00	-14.70
9230.0	V	-	-	-80.15	9.43	36.28	-58.98	-40.00	-18.98
11537.5	V	-	-	-80.66	12.11	38.45	-56.81	-40.00	-16.81
13845.0	V	-	-	-81.25	13.74	39.49	-55.76	-40.00	-15.76

Table 7-80. Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	312	228	-74.86	5.03	37.17	-58.09	-40.00	-18.09
6930.0	V	-	-	-79.25	8.21	35.96	-59.30	-40.00	-19.30
9240.0	V	-	-	-80.13	9.37	36.24	-59.01	-40.00	-19.01
11550.0	V	-	-	-80.91	12.11	38.20	-57.06	-40.00	-17.06

Table 7-81. Radiated Spurious Data (NR Band n30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	318	228	-75.64	5.09	36.45	-58.81	-40.00	-18.81
6937.5	V	-	-	-79.28	8.18	35.90	-59.36	-40.00	-19.36
9250.0	V	-	-	-80.45	9.31	35.86	-59.40	-40.00	-19.40
11562.5	V	-	-	-80.90	12.12	38.22	-57.04	-40.00	-17.04

Table 7-82. Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-79.79	5.36	32.57	-62.69	-25.00	-37.69
7560.0	V	-	-	-80.75	8.54	34.79	-60.47	-25.00	-35.47
10080.0	V	-	-	-80.70	10.56	36.86	-58.40	-25.00	-33.40

Table 7-83. Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-79.68	5.58	32.90	-62.36	-25.00	-37.36
7605.0	V	-	-	-80.74	8.52	34.78	-60.48	-25.00	-35.48
10140.0	V	-	-	-80.65	10.75	37.10	-58.16	-25.00	-33.16

Table 7-84. Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

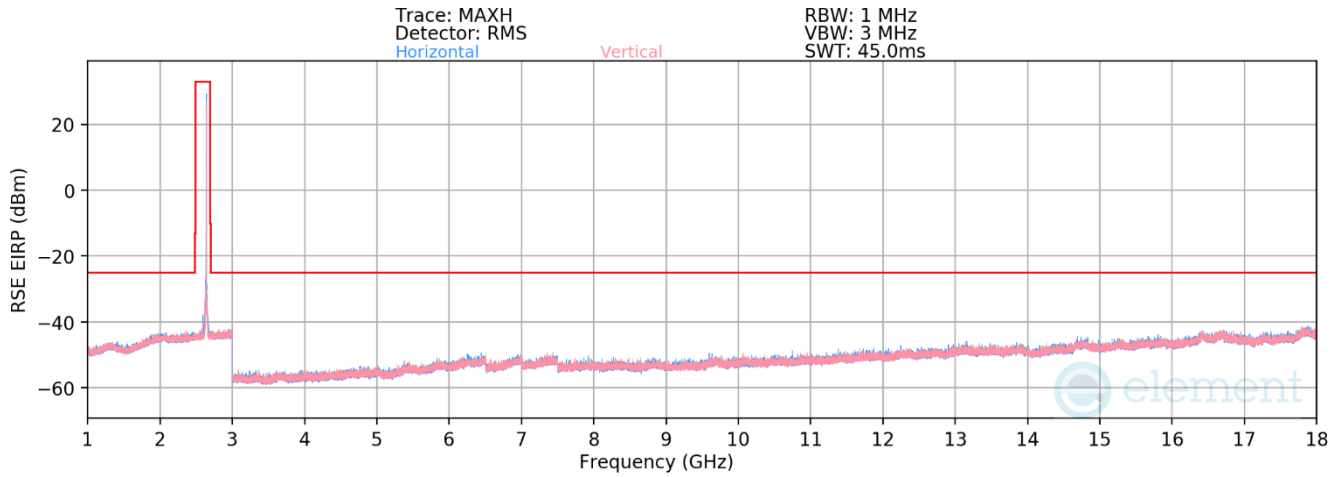
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-79.65	5.56	32.91	-62.35	-25.00	-37.35
7650.0	V	-	-	-80.55	8.46	34.91	-60.35	-25.00	-35.35
10200.0	V	-	-	-80.68	10.66	36.98	-58.28	-25.00	-33.28

Table 7-85. Radiated Spurious Data (NR Band n7 – High Channel)

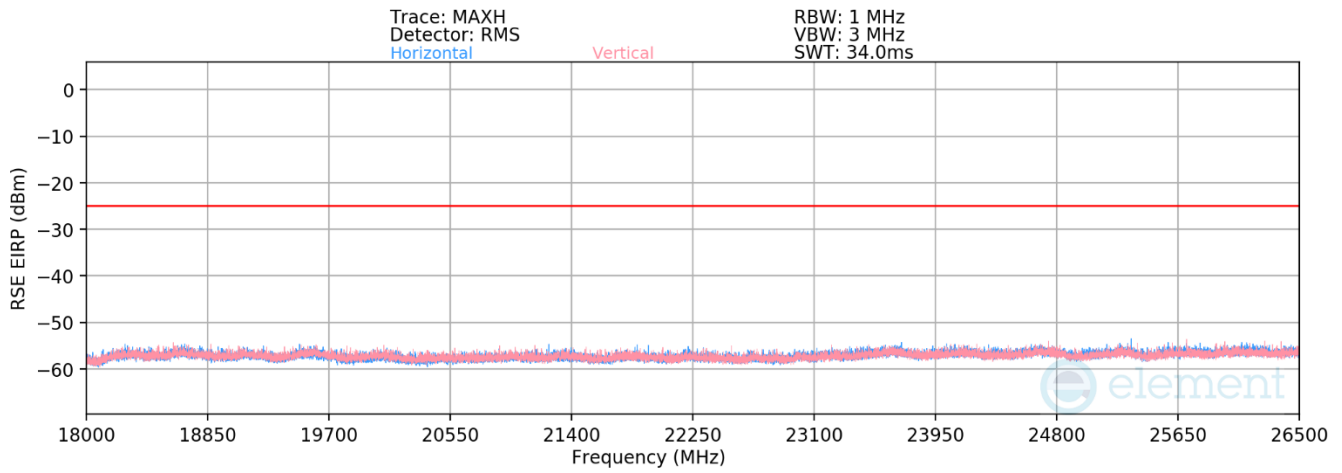
FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270064-10-R1.BCG	Test Dates: 10/1/2023 - 03/04/2024	EUT Type: Tablet Device
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NR Band n41



Plot 7-919. Antenna 2b Radiated Spurious Plot 1GHz – 18GHz (NR Band n41)



Plot 7-920. Antenna 2b Radiated Spurious Emission above 18GHz (NR Band n41, Pol. H/V)

FCC ID: BCGA2903	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-10-R1.BCG	Test Dates: 10/1/2023 - 03/04/2024	EUT Type: Tablet Device	Page 542 of 572

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-77.67	4.99	34.32	-60.94	-25.00	-35.94
7638.0	V	277	288	-76.63	9.06	39.43	-55.83	-25.00	-30.83
10184.0	V	-	-	-79.97	10.89	37.93	-57.33	-25.00	-32.33
12730.0	V	-	-	-80.60	13.99	40.39	-54.87	-25.00	-29.87
15276.0	V	-	-	-80.82	15.32	41.50	-53.76	-25.00	-28.76

Table 7-86. Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.71	4.70	33.99	-61.27	-25.00	-36.27
7779.0	V	-	-	-79.54	9.45	36.91	-58.35	-25.00	-33.35
10372.0	V	-	-	-79.61	10.49	37.87	-57.39	-25.00	-32.39

Table 7-87. Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-77.41	4.76	34.35	-60.91	-25.00	-35.91
7920.0	V	318	62	-71.80	9.34	44.54	-50.72	-25.00	-25.72
10560.0	V	-	-	-79.93	11.57	38.64	-56.62	-25.00	-31.62
13200.0	V	-	-	-80.61	14.07	40.45	-54.81	-25.00	-29.81
15840.0	V	-	-	-80.69	16.45	42.76	-52.50	-25.00	-27.50

Table 7-88. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-78.94	4.53	32.59	-62.66	-25.00	-37.66
7530.0	H	-	-	-80.74	8.47	34.73	-60.53	-25.00	-35.53
10040.0	H	-	-	-81.33	10.62	36.29	-58.97	-25.00	-33.97

Table 7-89. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
SCC RB / Offset:	1 / 0


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-79.06	4.89	32.83	-62.43	-25.00	-37.43
7605.0	H	-	-	-81.44	8.79	34.35	-60.91	-25.00	-35.91
10140.0	H	-	-	-81.26	10.66	36.40	-58.86	-25.00	-33.86

Table 7-90. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

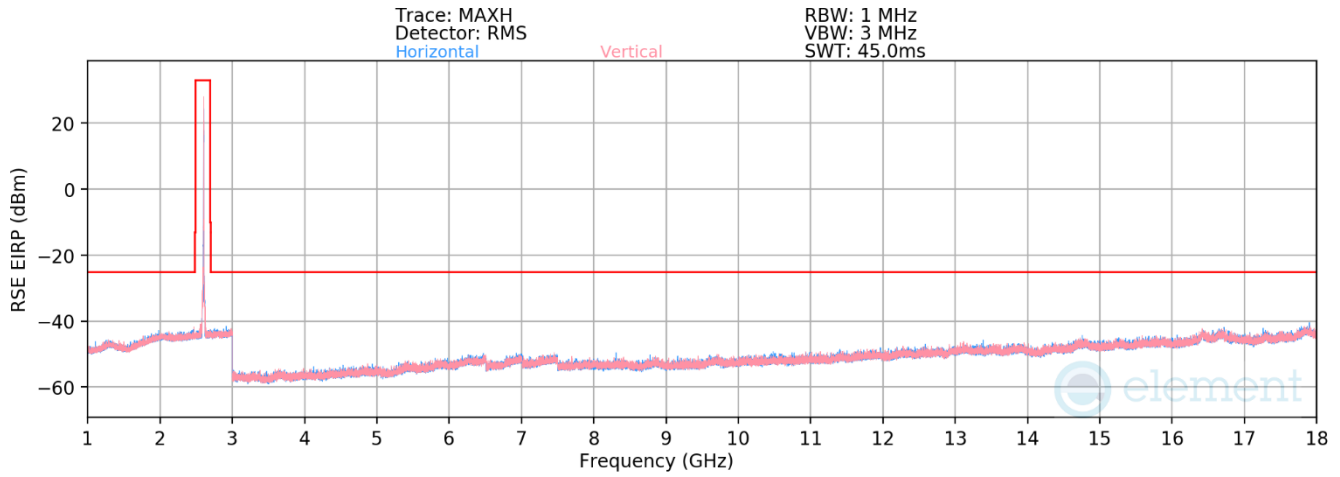
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-79.06	4.81	32.75	-62.51	-25.00	-37.51
7680.0	H	-	-	-81.39	9.15	34.76	-60.49	-25.00	-35.49
10240.0	H	-	-	-81.26	10.55	36.29	-58.97	-25.00	-33.97

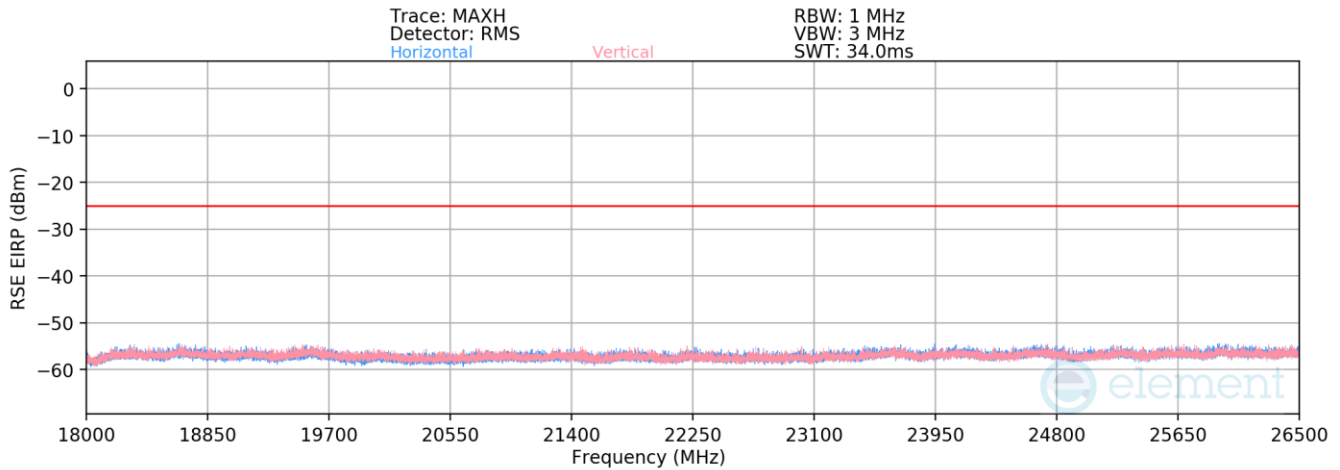
Table 7-91. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-10-R1.BCG	Test Dates: 10/1/2023 - 03/04/2024	EUT Type: Tablet Device	Page 544 of 572

ULCA - LTE B41



Plot 7-921. Antenna 2b Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE Band 41)



Plot 7-922. Antenna 2b Radiated Spurious Emission above 18GHz (ULCA LTE Band 41, Pol. H/V)

FCC ID: BCGA2903	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-10-R1.BCG	Test Dates: 10/1/2023 - 03/04/2024	EUT Type: Tablet Device	Page 545 of 572

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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-78.68	4.49	32.81	-62.45	-25.00	-37.45
7518.0	H	-	-	-80.80	8.43	34.63	-60.63	-25.00	-35.63
10024.0	H	-	-	-81.38	10.60	36.22	-59.04	-25.00	-34.04
12530.0	H	-	-	-82.78	13.82	38.04	-57.22	-25.00	-32.22

Table 7-92. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-78.68	4.63	32.95	-62.31	-25.00	-37.31
7779.0	H	-	-	-81.10	9.39	35.29	-59.97	-25.00	-34.97
10372.0	H	-	-	-81.00	10.43	36.43	-58.83	-25.00	-33.83
12965.0	H	-	-	-82.41	14.12	38.71	-56.55	-25.00	-31.55


Table 7-93. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-79.09	5.62	33.53	-61.73	-25.00	-36.73
8040.0	H	-	-	-80.91	9.25	35.34	-59.92	-25.00	-34.92
10720.0	H	-	-	-81.23	11.05	36.82	-58.44	-25.00	-33.44
13400.0	H	-	-	-82.57	14.19	38.62	-56.64	-25.00	-31.64

Table 7-94. Radiated Spurious Data (ULCA LTE B41 – High Channel)

7.7.3 Antenna 3a Radiated Spurious Emission Measurements

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-79.15	5.02	32.87	-62.36	-40.00	-22.36
6922.5	H	-	-	-79.83	8.26	35.43	-59.80	-40.00	-19.80
9230.0	H	-	-	-80.46	9.43	35.97	-59.26	-40.00	-19.26

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

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-79.23	5.03	32.80	-62.43	-40.00	-22.43
6930.0	H	-	-	-79.71	8.21	35.50	-59.73	-40.00	-19.73
9240.0	H	-	-	-80.52	9.37	35.85	-59.38	-40.00	-19.38

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

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	-	-	-79.28	5.09	32.81	-62.42	-40.00	-22.42
6937.50	H	-	-	-79.63	8.18	35.55	-59.68	-40.00	-19.68
9250.00	H	-	-	-80.54	9.31	35.77	-59.46	-40.00	-19.46

Table 7-97. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2311270064-10-R1.BCG	Test Dates: 10/1/2023 - 03/04/2024	EUT Type: Tablet Device
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LTE Band 7

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-79.42	4.94	32.52	-62.71	-25.00	-37.71
7530.0	H	-	-	-82.16	8.49	33.33	-61.90	-25.00	-36.90
10040.0	H	-	-	-82.67	10.39	34.72	-60.51	-25.00	-35.51

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

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-79.65	5.27	32.62	-62.61	-25.00	-37.61
7605.0	H	-	-	-81.64	8.61	33.97	-61.26	-25.00	-36.26
10140.0	H	-	-	-82.83	10.83	35.00	-60.23	-25.00	-35.23

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

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-79.24	5.34	33.10	-62.13	-25.00	-37.13
7680.00	H	-	-	-81.66	8.56	33.90	-61.33	-25.00	-36.33
10240.00	H	-	-	-82.48	10.70	35.22	-60.01	-25.00	-35.01

Table 7-100. Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2311270064-10-R1.BCG	Test Dates: 10/1/2023 - 03/04/2024	EUT Type: Tablet Device		Page 548 of 572

LTE Band 41

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-75.61	2.57	33.96	-61.27	-25.00	-36.27
7518.0	H	-	-	-75.66	4.45	35.79	-59.44	-25.00	-34.44
10024.0	H	-	-	-74.63	5.24	37.61	-57.62	-25.00	-32.62

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

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-76.81	3.78	33.97	-61.26	-25.00	-36.26
7779.0	H	-	-	-75.29	3.99	35.70	-59.53	-25.00	-34.53
10372.0	H	-	-	-74.30	5.95	38.65	-56.58	-25.00	-31.58

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

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-76.49	3.44	33.95	-61.28	-25.00	-36.28
8040.0	V	194	145	-71.22	3.85	39.63	-55.60	-25.00	-30.60
10720.0	H	-	-	-75.97	6.95	37.98	-57.25	-25.00	-32.25
13400.0	H	-	-	-76.69	10.07	40.38	-54.85	-25.00	-29.85
16080.0	H	-	-	-79.85	14.80	41.95	-53.28	-25.00	-28.28

Table 7-103. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-79.04	5.02	32.98	-62.28	-40.00	-22.28
6922.5	V	-	-	-79.38	8.26	35.88	-59.38	-40.00	-19.38
9230.0	V	-	-	-79.75	9.43	36.68	-58.58	-40.00	-18.58

Table 7-104. Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-79.20	5.03	32.83	-62.43	-40.00	-22.43
6930.0	V	-	-	-79.37	8.21	35.84	-59.42	-40.00	-19.42
9240.0	V	-	-	-79.81	9.37	36.56	-58.69	-40.00	-18.69

Table 7-105. Radiated Spurious Data (NR Band n30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-78.30	5.09	33.79	-61.47	-40.00	-21.47
6937.5	V	-	-	-79.30	8.18	35.88	-59.38	-40.00	-19.38
9250.0	V	-	-	-80.19	9.31	36.12	-59.14	-40.00	-19.14

Table 7-106. Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	-	-	-	-79.42	5.36	32.94	-62.32	-25.00	-37.32
7560.0	-	-	-	-79.66	8.54	35.88	-59.38	-25.00	-34.38
10080.0	-	-	-	-80.07	10.56	37.49	-57.77	-25.00	-32.77

Table 7-107. Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	-	-	-	-79.21	5.58	33.37	-61.89	-25.00	-36.89
7605.0	-	-	-	-80.21	8.52	35.31	-59.95	-25.00	-34.95
10140.0	-	-	-	-80.19	10.75	37.56	-57.70	-25.00	-32.70

Table 7-108. Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	-	-	-	-79.21	5.56	33.35	-61.91	-25.00	-36.91
7650.0	-	-	-	-80.13	8.46	35.33	-59.93	-25.00	-34.93
10200.0	-	-	-	-80.32	10.66	37.34	-57.91	-25.00	-32.91

Table 7-109. Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2903		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n41

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-77.72	4.99	34.26	-60.99	-25.00	-35.99
7638.0	V	257	120	-76.23	9.06	39.82	-55.43	-25.00	-30.43
10184.0	V	-	-	-79.95	10.89	37.94	-57.31	-25.00	-32.31
12730.0	V	-	-	-80.60	13.99	40.38	-54.88	-25.00	-29.88
15276.0	V	-	-	-80.94	15.32	41.38	-53.87	-25.00	-28.87

Table 7-110. Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.70	4.70	34.00	-61.25	-25.00	-36.25
7779.0	V	257	117	-72.58	9.45	43.87	-51.39	-25.00	-26.39
10372.0	V	-	-	-79.70	10.49	37.79	-57.47	-25.00	-32.47
12965.0	V	-	-	-80.78	14.28	40.50	-54.76	-25.00	-29.76
15558.0	V	-	-	-80.66	15.49	41.82	-53.43	-25.00	-28.43

Table 7-111. Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-77.73	4.95	34.22	-61.04	-25.00	-36.04
7920.0	V	292	132	-68.24	9.34	48.10	-47.16	-25.00	-22.16
10560.0	V	-	-	-80.03	11.47	38.44	-56.82	-25.00	-31.82
13200.0	V	-	-	-80.78	14.07	40.29	-54.97	-25.00	-29.97
15840.0	V	-	-	-80.41	16.45	43.03	-52.23	-25.00	-27.23

Table 7-112. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-79.00	4.53	32.53	-62.72	-25.00	-37.72
7530.0	H	-	-	-80.97	8.47	34.50	-60.76	-25.00	-35.76
10040.0	H	-	-	-81.54	10.62	36.08	-59.18	-25.00	-34.18

Table 7-113. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
SCC RB / Offset:	1 / 0


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-79.25	4.89	32.64	-62.62	-25.00	-37.62
7605.0	H	-	-	-81.17	8.79	34.62	-60.64	-25.00	-35.64
10140.0	H	-	-	-81.30	10.66	36.36	-58.90	-25.00	-33.90

Table 7-114. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-79.18	4.81	32.63	-62.63	-25.00	-37.63
7680.0	H	-	-	-81.23	9.15	34.92	-60.33	-25.00	-35.33
10240.0	H	-	-	-81.40	10.55	36.15	-59.11	-25.00	-34.11

Table 7-115. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.56	4.55	33.99	-61.24	-25.00	-36.24
7518.0	H	-	-	-79.57	8.50	35.93	-59.30	-25.00	-34.30
10024.0	H	-	-	-79.71	10.60	37.89	-57.34	-25.00	-32.34

Table 7-116. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.63	4.63	34.00	-61.23	-25.00	-36.23
7779.0	H	-	-	-80.13	9.36	36.23	-59.00	-25.00	-34.00
10372.0	H	-	-	-79.42	10.52	38.10	-57.13	-25.00	-32.13

Table 7-117. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-78.07	5.73	34.66	-60.57	-25.00	-35.57
8040.0	H	-	-	-79.78	9.22	36.44	-58.79	-25.00	-33.79
10720.0	H	-	-	-80.19	11.06	37.87	-57.36	-25.00	-32.36

Table 7-118. Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.4 Antenna 1b Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-79.24	5.02	32.78	-62.45	-40.00	-22.45
6922.5	H	-	-	-79.61	8.26	35.65	-59.58	-40.00	-19.58
9230.0	H	-	-	-80.65	9.43	35.78	-59.45	-40.00	-19.45

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

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-79.27	5.03	32.76	-62.47	-40.00	-22.47
6930.0	H	-	-	-79.69	8.21	35.52	-59.71	-40.00	-19.71
9240.0	H	-	-	-80.50	9.37	35.87	-59.36	-40.00	-19.36

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

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	-	-	-79.51	5.09	32.58	-62.65	-40.00	-22.65
6937.50	H	-	-	-79.61	8.18	35.57	-59.66	-40.00	-19.66
9250.00	H	-	-	-80.30	9.31	36.01	-59.22	-40.00	-19.22

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

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 7

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-79.37	4.94	32.57	-62.66	-25.00	-37.66
7530.0	H	-	-	-82.01	8.49	33.48	-61.75	-25.00	-36.75
10040.0	H	-	-	-82.70	10.39	34.69	-60.54	-25.00	-35.54

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

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-79.60	5.27	32.67	-62.56	-25.00	-37.56
7605.0	H	-	-	-82.03	8.61	33.58	-61.65	-25.00	-36.65
10140.0	H	-	-	-82.86	10.83	34.97	-60.26	-25.00	-35.26

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

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-79.56	5.34	32.78	-62.45	-25.00	-37.45
7680.00	H	-	-	-81.69	8.56	33.87	-61.36	-25.00	-36.36
10240.00	H	-	-	-82.80	10.70	34.90	-60.33	-25.00	-35.33

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

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 41

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-75.68	2.57	33.89	-61.34	-25.00	-36.34
7518.0	H	-	-	-75.61	4.45	35.84	-59.39	-25.00	-34.39
10024.0	H	-	-	-74.33	5.24	37.91	-57.32	-25.00	-32.32

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

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-76.89	3.78	33.89	-61.34	-25.00	-36.34
7779.0	H	-	-	-75.30	3.99	35.69	-59.54	-25.00	-34.54
10372.0	H	-	-	-74.19	5.95	38.76	-56.47	-25.00	-31.47

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

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-76.41	3.44	34.03	-61.20	-25.00	-36.20
8040.0	H	-	-	-74.60	3.85	36.25	-58.98	-25.00	-33.98
10720.0	H	-	-	-76.06	6.95	37.89	-57.34	-25.00	-32.34

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

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-79.22	5.02	32.80	-62.46	-40.00	-22.46
6922.5	V	-	-	-79.23	8.26	36.03	-59.23	-40.00	-19.23
9230.0	V	-	-	-80.41	9.43	36.02	-59.24	-40.00	-19.24

Table 7-128. Radiated Spurious Data (NR Band n30 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-78.73	5.03	33.30	-61.96	-40.00	-21.96
6930.0	V	-	-	-79.05	8.21	36.16	-59.10	-40.00	-19.10
9240.0	V	-	-	-80.30	9.37	36.07	-59.18	-40.00	-19.18

Table 7-129. Radiated Spurious Data (NR Band n30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-79.08	5.09	33.01	-62.25	-40.00	-22.25
6937.5	V	-	-	-79.21	8.18	35.97	-59.29	-40.00	-19.29
9250.0	V	-	-	-80.07	9.31	36.24	-59.02	-40.00	-19.02

Table 7-130. Radiated Spurious Data (NR Band n30 – High Channel)

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NR Band n7

Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-79.42	5.36	32.94	-62.32	-25.00	-37.32
7560.0	V	-	-	-80.68	8.54	34.86	-60.40	-25.00	-35.40
10080.0	V	-	-	-80.65	10.56	36.91	-58.35	-25.00	-33.35

Table 7-131. Radiated Spurious Data (NR Band n7 – Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2535.0
RB / Offset:	1 / 108


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-79.75	5.58	32.83	-62.43	-25.00	-37.43
7605.0	V	-	-	-80.62	8.52	34.90	-60.36	-25.00	-35.36
10140.0	V	-	-	-80.52	10.75	37.23	-58.03	-25.00	-33.03

Table 7-132. Radiated Spurious Data (NR Band n7 – Mid Channel)

Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-79.72	5.56	32.84	-62.42	-25.00	-37.42
7650.0	V	-	-	-80.81	8.46	34.65	-60.61	-25.00	-35.61
10200.0	V	-	-	-80.76	10.66	36.90	-58.36	-25.00	-33.36

Table 7-133. Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2903	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n41

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-77.74	4.99	34.24	-61.02	-25.00	-36.02
7638.0	V	-	-	-79.34	8.90	36.56	-58.70	-25.00	-33.70
10184.0	V	-	-	-80.07	10.89	37.83	-57.43	-25.00	-32.43

Table 7-134. Radiated Spurious Data (NR Band n41 – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.76	4.70	33.94	-61.32	-25.00	-36.32
7779.0	V	-	-	-79.98	9.45	36.47	-58.79	-25.00	-33.79
10372.0	V	-	-	-79.84	10.49	37.65	-57.61	-25.00	-32.61

Table 7-135. Radiated Spurious Data (NR Band n41 – Mid Channel)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-77.59	4.95	34.36	-60.90	-25.00	-35.90
7920.0	V	-	-	-79.81	9.35	36.54	-58.71	-25.00	-33.71
10560.0	V	-	-	-79.84	11.57	38.74	-56.52	-25.00	-31.52

Table 7-136. Radiated Spurious Data (NR Band n41 – High Channel)

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ULCA - LTE B7

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-78.91	4.53	32.62	-62.63	-25.00	-37.63
7530.0	H	-	-	-81.05	8.47	34.42	-60.84	-25.00	-35.84
10040.0	H	-	-	-81.53	10.62	36.09	-59.17	-25.00	-34.17

Table 7-137. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
SCC RB / Offset:	1 / 0


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-79.20	4.89	32.69	-62.57	-25.00	-37.57
7605.0	H	-	-	-81.25	8.79	34.54	-60.72	-25.00	-35.72
10140.0	H	-	-	-81.42	10.66	36.24	-59.02	-25.00	-34.02

Table 7-138. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-79.51	4.81	32.30	-62.96	-25.00	-37.96
7680.0	H	-	-	-81.12	9.15	35.03	-60.22	-25.00	-35.22
10240.0	H	-	-	-81.78	10.55	35.77	-59.49	-25.00	-34.49

Table 7-139. Radiated Spurious Data (ULCA LTE B7 – High Channel)

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ULCA - LTE B41

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.57	4.55	33.98	-61.25	-25.00	-36.25
7518.0	H	-	-	-79.57	8.50	35.93	-59.30	-25.00	-34.30
10024.0	H	-	-	-79.54	10.60	38.06	-57.17	-25.00	-32.17

Table 7-140. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0


Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.83	4.63	33.80	-61.43	-25.00	-36.43
7779.0	H	-	-	-80.19	9.36	36.17	-59.06	-25.00	-34.06
10372.0	H	-	-	-79.64	10.52	37.88	-57.35	-25.00	-32.35

Table 7-141. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-78.11	5.73	34.62	-60.61	-25.00	-35.61
8040.0	H	-	-	-79.89	9.22	36.33	-58.90	-25.00	-33.90
10720.0	H	-	-	-80.07	11.06	37.99	-57.24	-25.00	-32.24

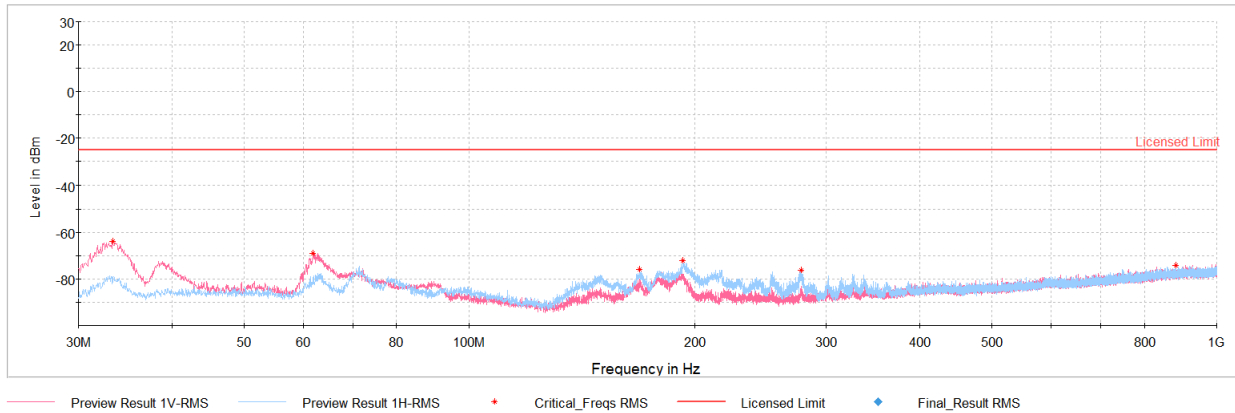
Table 7-142. Radiated Spurious Data (ULCA LTE B41 – High Channel)

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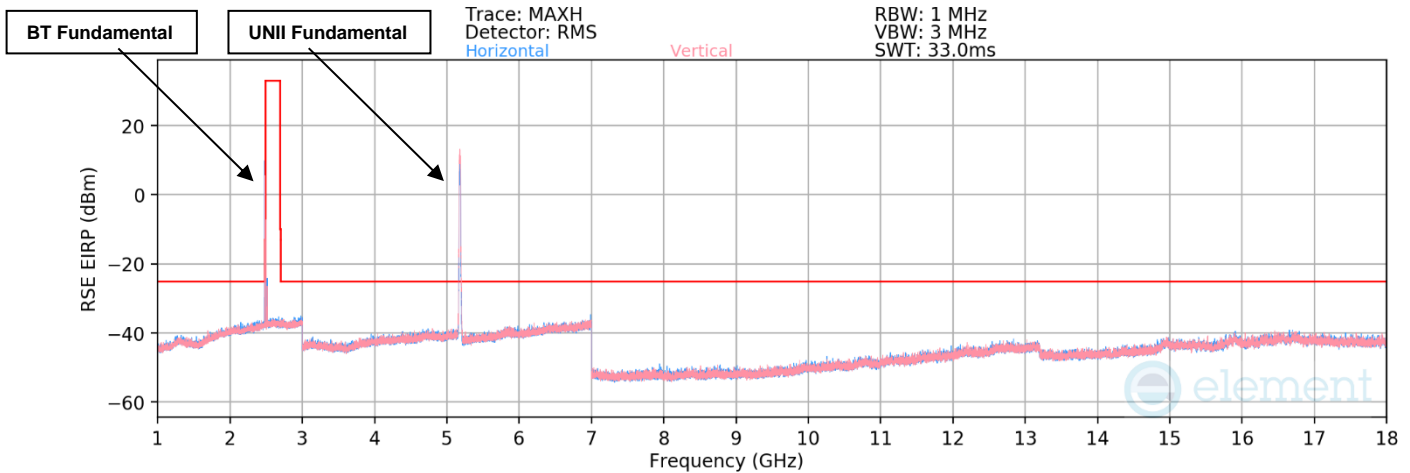
7.7.5 Simultaneous Tx Radiated Spurious Emissions Measurements

Description	FR1 n41	802.11a/n/ac/ax 5GHz	Bluetooth
Antenna	Antenna 3a	Antenna 3a	Antenna 3a
Channel	41490	36	78
Operating Frequency (MHz)	2506	5180	2480
Mode/Modulation	QPSK/1RB/20MHz	802.11n, MCS10	GFSK ePa

Table 7-143. Worst Case Simultaneous Transmission Configuration

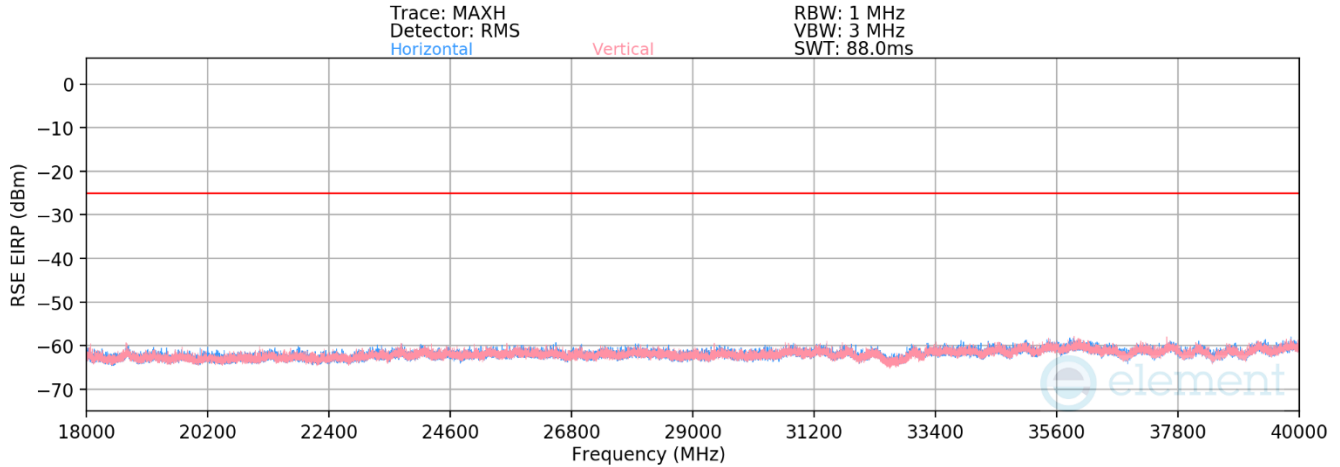


Plot 7-923. Radiated Spurious Emissions - Simultaneous Transmission 30MHz – 1GHz



Plot 7-924. Radiated Spurious Emissions - Simultaneous Transmission 1GHz – 18GHz

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Plot 7-925. Radiated Spurious Emissions - Simultaneous Transmission Above 18GHz

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]
4960.00	Peak	H	-	-	-69.48	17.05	54.57	73.98	-19.41
7440.00	Peak	H	-	-	-70.60	11.50	47.90	73.98	-26.08
12400.00	Peak	H	-	-	-72.42	18.60	53.18	73.98	-20.80

Table 7-144. BT Harmonics Emissions Measurements in Simultaneous Transmission Mode

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]
10360.00	Peak	H	-	-	-71.69	14.72	50.03	68.20	-18.17
15540.00	Avg	H	-	-	-84.78	23.02	45.24	53.98	-8.74
15540.00	Peak	H	-	-	-74.22	23.02	55.80	73.98	-18.18

Table 7-145. UNII Harmonics Emissions Measurements in Simultaneous Transmission Mode

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dBm]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4994.00	H	-	-	-79.90	17.14	44.2	-50.99	-25.0	-26.0
7491.00	H	-	-	-81.21	11.62	37.4	-57.82	-25.0	-32.8
9988.00	H	-	-	-82.11	14.34	39.2	-56.00	-25.0	-31.0
12485.00	H	-	-	-83.26	18.81	42.5	-52.68	-25.0	-27.7
2463.00*	H	194	209	-76.15	18.84	49.7	-45.54	-25.0	-20.5
2514.00*	H	110	208	-62.68	19.48	63.8	-31.43	33.0	-64.4

Table 7-146. FR1-n41PC2 Harmonics and Intermodulation(*) Emissions Measurements in Simultaneous Transmission Mode

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7.8 Frequency Stability / Temperature Variation

§2.1055, §27.54

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 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

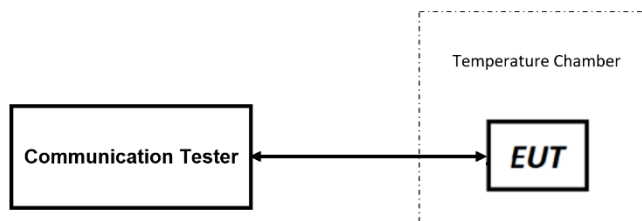



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All ports were tested and only the worst case data were reported.

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Frequency Stability / Temperature Variation

LTE Band 30				
		Operating Band Lower Boundary (GHz)	2.305	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.3055751	-0.0005751
		- 20	2.3055772	-0.0005772
		- 10	2.3055752	-0.0005752
		0	2.3055786	-0.0005786
		+ 10	2.3055763	-0.0005763
		+ 20 (Ref)	2.3055716	-0.0005716
		+ 30	2.3055773	-0.0005773
		+ 40	2.3055762	-0.0005762
Battery Endpoint	3.40	+ 20	2.3055799	-0.0005799

Table 7-147. Lower Boundary LTE Band 30 Frequency Stability Data

LTE Band 30				
		Operating Band Upper Boundary (GHz)	2.315	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.3145363	-0.0004637
		- 20	2.3145386	-0.0004614
		- 10	2.3145371	-0.0004629
		0	2.3145352	-0.0004648
		+ 10	2.3145385	-0.0004615
		+ 20 (Ref)	2.3145362	-0.0004638
		+ 30	2.3145375	-0.0004625
		+ 40	2.3145373	-0.0004627
Battery Endpoint	3.40	+ 20	2.3145333	-0.0004667

Table 7-148. Upper Boundary LTE Band 30 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 7				
Operating Band Lower Boundary (GHz)		2.500		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5005462	-0.0005462
		- 20	2.5005475	-0.0005475
		- 10	2.5005462	-0.0005462
		0	2.5005459	-0.0005459
		+ 10	2.5005466	-0.0005466
		+ 20 (Ref)	2.5005466	-0.0005466
		+ 30	2.5005469	-0.0005469
		+ 40	2.5005473	-0.0005473
		+ 50	2.5005476	-0.0005476
Battery Endpoint	3.40	+ 20	2.5005458	-0.0005458

Table 7-149. Lower Boundary LTE Band 7 Frequency Stability Data

LTE Band 7				
Operating Band Upper Boundary (GHz)		2.570		
Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5696151	-0.0003849
		- 20	2.5696151	-0.0003849
		- 10	2.5696144	-0.0003856
		0	2.5696157	-0.0003843
		+ 10	2.5696187	-0.0003813
		+ 20 (Ref)	2.5696156	-0.0003844
		+ 30	2.5696175	-0.0003825
		+ 40	2.5696155	-0.0003845
		+ 50	2.5696129	-0.0003871
Battery Endpoint	3.40	+ 20	2.5696178	-0.0003822

Table 7-150. Upper Boundary LTE Band 7 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 41				
		Operating Band Lower Boundary (GHz)		2.496
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.4967523	-0.0007523
		- 20	2.4967535	-0.0007535
		- 10	2.4967541	-0.0007541
		0	2.4967543	-0.0007543
		+ 10	2.4967556	-0.0007556
		+ 20 (Ref)	2.4967555	-0.0007555
		+ 30	2.4967555	-0.0007555
		+ 40	2.4967565	-0.0007565
Battery Endpoint	3.40	+ 20	2.4967551	-0.0007551

Table 7-151. Lower Boundary LTE Band 41 Frequency Stability Data

LTE Band 41				
		Operating Band Upper Boundary (GHz)		2.690
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.6895762	-0.0004238
		- 20	2.6895755	-0.0004245
		- 10	2.6895775	-0.0004225
		0	2.6895775	-0.0004225
		+ 10	2.6895726	-0.0004274
		+ 20 (Ref)	2.6895773	-0.0004227
		+ 30	2.6895756	-0.0004244
		+ 40	2.6895776	-0.0004224
Battery Endpoint	3.40	+ 20	2.6895756	-0.0004244

Table 7-152. Upper Boundary LTE Band 41 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n30				
Operating Band Lower Boundary (GHz)			2.3050	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.3053486	-0.0003486
		- 20	2.3053447	-0.0003447
		- 10	2.3053473	-0.0003473
		0	2.3053421	-0.0003421
		+ 10	2.3053388	-0.0003388
		+ 20 (Ref)	2.3053388	-0.0003388
		+ 30	2.3053399	-0.0003399
		+ 40	2.3053428	-0.0003428
Battery Endpoint	3.40	+ 20	2.3053425	-0.0003425

Table 7-153. Lower Boundary NR Band n30 Frequency Stability Data

NR Band n30				
Operating Band Upper Boundary (GHz)			2.3150	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.3146467	-0.0003533
		- 20	2.3146401	-0.0003599
		- 10	2.3146381	-0.0003619
		0	2.3146421	-0.0003579
		+ 10	2.3146377	-0.0003623
		+ 20 (Ref)	2.3146325	-0.0003675
		+ 30	2.3146381	-0.0003619
		+ 40	2.3146415	-0.0003585
Battery Endpoint	3.40	+ 20	2.3146376	-0.0003624

Table 7-154. Upper Boundary NR Band n30 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n7				
Operating Band Lower Boundary (GHz)			2.500	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5007694	-0.0007694
		- 20	2.5007713	-0.0007713
		- 10	2.5007591	-0.0007591
		0	2.5007640	-0.0007640
		+ 10	2.5007626	-0.0007626
		+ 20 (Ref)	2.5007649	-0.0007649
		+ 30	2.5007482	-0.0007482
		+ 40	2.5007453	-0.0007453
Battery Endpoint	3.40	+ 20	2.5007652	-0.0007652

Table 7-155. Lower Boundary NR Band n7 Frequency Stability Data

NR Band n7				
Operating Band Upper Boundary (GHz)			2.570	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.5692890	-0.0007110
		- 20	2.5692841	-0.0007159
		- 10	2.5692873	-0.0007127
		0	2.5692867	-0.0007133
		+ 10	2.5692739	-0.0007261
		+ 20 (Ref)	2.5692725	-0.0007275
		+ 30	2.5692582	-0.0007418
		+ 40	2.5692504	-0.0007496
Battery Endpoint	3.40	+ 20	2.5692459	-0.0007541

Table 7-156. Upper Boundary NR Band n7 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n41				
		Operating Band Lower Boundary (GHz)		2.496
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.4973649	-0.0013649
		- 20	2.4973477	-0.0013477
		- 10	2.4973270	-0.0013270
		0	2.4973352	-0.0013352
		+ 10	2.4973169	-0.0013169
		+ 20 (Ref)	2.4973033	-0.0013033
		+ 30	2.4972857	-0.0012857
		+ 40	2.4972956	-0.0012956
Battery Endpoint	3.40	+ 20	2.4972863	-0.0012863

Table 7-157. Lower Boundary NR Band n41 Frequency Stability Data

NR Band n41				
		Operating Band Upper Boundary (GHz)		2.690
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	2.6886216	-0.0013784
		- 20	2.6886138	-0.0013862
		- 10	2.6886047	-0.0013953
		0	2.6886167	-0.0013833
		+ 10	2.6885887	-0.0014113
		+ 20 (Ref)	2.6886014	-0.0013986
		+ 30	2.6885967	-0.0014033
		+ 40	2.6885878	-0.0014122
Battery Endpoint	3.40	+ 20	2.6885843	-0.0014157


Table 7-158. Upper Boundary NR Band n41 Frequency Stability Data

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2903** complies with all the requirements of Part 27 of the FCC rules.

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