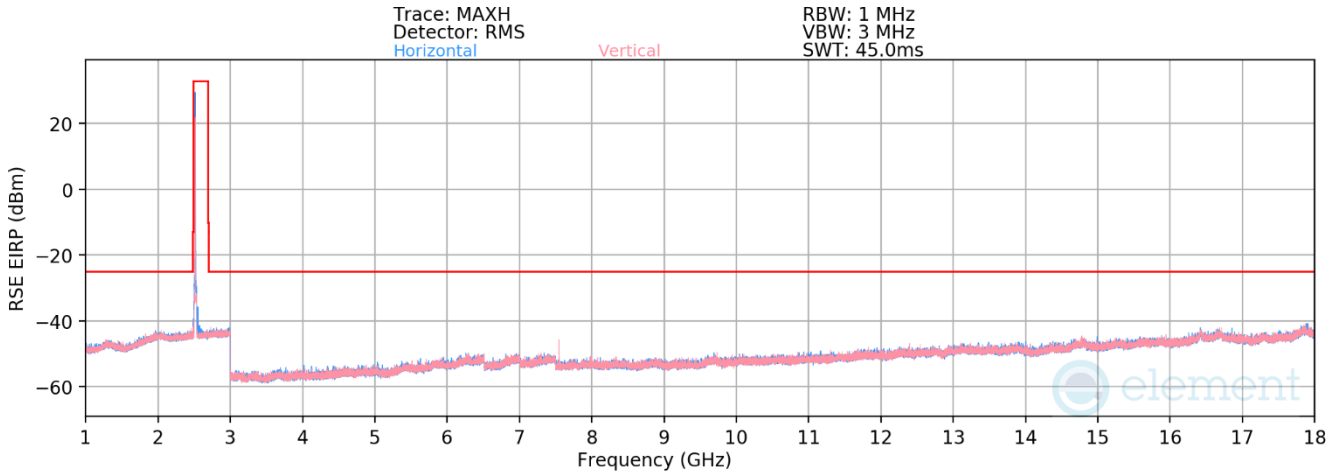
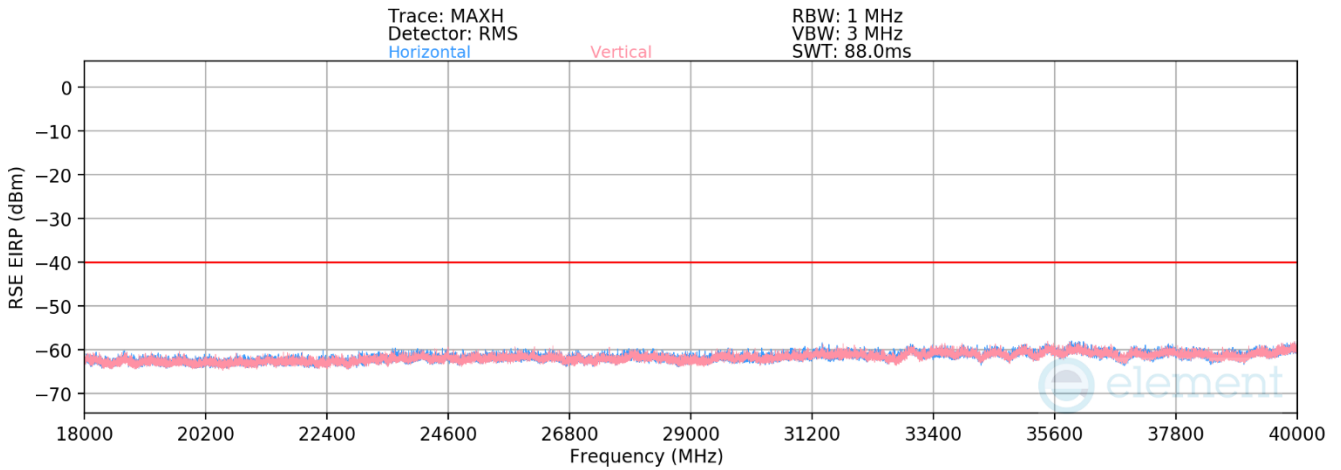



ULCA - LTE B41



Plot 7-921. Antenna 1b Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B41)



Plot 7-922. Antenna 1b Radiated Spurious Emission above 18GHz (ULCA LTE B41)

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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	V	-	-	-78.60	4.35	32.75	-62.50	-25.00	-37.50
7518.0	V	264	319	-75.22	9.14	40.92	-54.34	-25.00	-29.34
10024.0	V	-	-	-81.41	10.33	35.92	-59.34	-25.00	-34.34
12530.0	V	-	-	-82.51	14.84	39.33	-55.93	-25.00	-30.93
15036.0	V	-	-	-82.35	15.67	40.32	-54.94	-25.00	-29.94

Table 7-92. Antenna 1b 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	V	-	-	-78.68	5.37	33.69	-61.57	-25.00	-36.57
7779.0	V	-	-	-81.32	9.37	35.05	-60.21	-25.00	-35.21
10372.0	V	-	-	-81.14	10.80	36.66	-58.60	-25.00	-33.60
12965.0	V	-	-	-82.76	15.09	39.33	-55.93	-25.00	-30.93

Table 7-93. Antenna 1b 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	V	-	-	-79.32	5.13	32.81	-62.45	-25.00	-37.45
8040.0	V	-	-	-81.21	9.84	35.63	-59.63	-25.00	-34.63
10720.0	V	-	-	-81.42	11.64	37.22	-58.04	-25.00	-33.04
13400.0	V	-	-	-82.63	15.48	39.85	-55.41	-25.00	-30.41

Table 7-94. Antenna 1b Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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7.7.3 Antenna 3b 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	V	-	-	-76.81	4.38	34.57	-60.66	-40.00	-20.66
6922.5	V	-	-	-79.90	8.85	35.95	-59.28	-40.00	-19.28
9230.0	V	-	-	-80.38	9.74	36.36	-58.87	-40.00	-18.87

Table 7-95. Antenna 3b 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	V	-	-	-77.13	4.40	34.27	-60.96	-40.00	-20.96
6930.0	V	-	-	-80.29	8.84	35.55	-59.68	-40.00	-19.68
9240.0	V	-	-	-79.91	9.77	36.86	-58.37	-40.00	-18.37

Table 7-96. Antenna 3b 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	V	-	-	-76.69	4.41	34.72	-60.51	-40.00	-20.51
6937.50	V	-	-	-79.82	8.85	36.03	-59.20	-40.00	-19.20
9250.00	V	-	-	-79.80	9.79	36.99	-58.24	-40.00	-18.24

Table 7-97. Antenna 3b Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2899	 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-77.66	4.60	33.94	-61.29	-25.00	-36.29
7530.0	V	-	-	-80.23	8.55	35.32	-59.91	-25.00	-34.91
10040.0	V	-	-	-80.85	10.64	36.79	-58.44	-25.00	-33.44

Table 7-98. Antenna 3b 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-78.24	4.99	33.75	-61.48	-25.00	-36.48
7605.0	V	-	-	-80.39	8.83	35.44	-59.79	-25.00	-34.79
10140.0	V	-	-	-80.68	10.77	37.09	-58.14	-25.00	-33.14

Table 7-99. Antenna 3b 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-78.33	4.86	33.53	-61.70	-25.00	-36.70
7680.00	V	-	-	-79.97	9.18	36.21	-59.02	-25.00	-34.02
10240.00	V	-	-	-80.77	10.64	36.87	-58.36	-25.00	-33.36

Table 7-100. Antenna 3b Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2899	 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	V	-	-	-77.61	4.55	33.94	-61.29	-25.00	-36.29
7518.0	V	-	-	-79.69	8.50	35.81	-59.42	-25.00	-34.42
10024.0	V	-	-	-80.25	10.60	37.35	-57.88	-25.00	-32.88

Table 7-101. Antenna 3b 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	V	-	-	-77.65	4.63	33.98	-61.25	-25.00	-36.25
7779.0	V	-	-	-79.77	9.36	36.59	-58.64	-25.00	-33.64
10372.0	V	-	-	-79.84	10.52	37.68	-57.55	-25.00	-32.55

Table 7-102. Antenna 3b 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	V	-	-	-78.22	5.73	34.51	-60.72	-25.00	-35.72
8040.0	V	-	-	-79.70	9.22	36.52	-58.71	-25.00	-33.71
10720.0	V	-	-	-79.87	11.06	38.19	-57.04	-25.00	-32.04

Table 7-103. Antenna 3b Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2899	 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	-	-	-78.38	4.25	32.87	-62.36	-40.00	-22.36
6922.5	V	-	-	-80.61	8.87	35.26	-59.97	-40.00	-19.97
9230.0	V	-	-	-79.93	9.25	36.32	-58.91	-40.00	-18.91

Table 7-104. Antenna 3b 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	-	-	-78.59	4.26	32.67	-62.56	-40.00	-22.56
6930.0	V	-	-	-79.84	8.77	35.93	-59.30	-40.00	-19.30
9240.0	V	-	-	-79.34	9.32	36.98	-58.25	-40.00	-18.25

Table 7-105. Antenna 3b 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	-	-	-76.31	1.92	32.61	-62.62	-40.00	-22.62
6937.5	V	-	-	-77.58	4.80	34.22	-61.01	-40.00	-21.01
9250.0	V	-	-	-77.28	5.78	35.50	-59.73	-40.00	-19.73

Table 7-106. Antenna 3b Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2899	 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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-77.81	4.94	34.13	-61.10	-25.00	-36.10
7560.0	V	-	-	-80.51	8.96	35.45	-59.78	-25.00	-34.78
10080.0	V	-	-	-79.60	10.02	37.42	-57.81	-25.00	-32.81

Table 7-107. Antenna 3b 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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-77.87	5.12	34.25	-60.98	-25.00	-35.98
7605.0	V	-	-	-80.30	9.28	35.98	-59.25	-25.00	-34.25
10140.0	V	-	-	-79.43	10.05	37.62	-57.61	-25.00	-32.61

Table 7-108. Antenna 3b 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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-80.75	7.40	33.65	-61.58	-25.00	-36.58
7650.0	V	-	-	-81.44	10.72	36.28	-58.95	-25.00	-33.95
10200.0	V	-	-	-82.68	14.69	39.01	-56.22	-25.00	-31.22

Table 7-109. Antenna 3b Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2899	 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-78.32	5.57	34.25	-60.98	-25.00	-35.98
7638.0	V	-	-	-79.35	8.47	36.12	-59.11	-25.00	-34.11
10184.0	V	-	-	-79.39	10.70	38.31	-56.92	-25.00	-31.92

Table 7-110. Antenna 3b 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-78.05	5.31	34.26	-60.97	-25.00	-35.97
7779.0	V	-	-	-79.36	8.47	36.11	-59.12	-25.00	-34.12
10372.0	V	-	-	-79.48	11.34	38.86	-56.37	-25.00	-31.37

Table 7-111. Antenna 3b 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-78.21	5.81	34.60	-60.63	-25.00	-35.63
7920.0	V	-	-	-79.50	8.75	36.25	-58.98	-25.00	-33.98
10560.0	V	-	-	-79.72	11.38	38.66	-56.57	-25.00	-31.57

Table 7-112. Antenna 3b Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2899	 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-78.36	4.60	33.24	-61.99	-25.00	-36.99
7530.0	V	-	-	-80.44	8.55	35.11	-60.12	-25.00	-35.12
10040.0	V	-	-	-80.44	10.64	37.20	-58.03	-25.00	-33.03

Table 7-113. Antenna 3b Radiated Spurious Data (ULCA LTE B41 – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-78.75	4.99	33.24	-61.99	-25.00	-36.99
7605.0	V	-	-	-80.05	8.83	35.78	-59.45	-25.00	-34.45
10140.0	V	-	-	-80.56	10.77	37.21	-58.02	-25.00	-33.02

Table 7-114. Antenna 3b Radiated Spurious Data (ULCA LTE B41 – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	V	-	-	-78.79	4.86	33.07	-62.16	-25.00	-37.16
7680.0	V	-	-	-80.17	9.18	36.01	-59.22	-25.00	-34.22
10240.0	V	-	-	-80.34	10.64	37.30	-57.93	-25.00	-32.93

Table 7-115. Antenna 3b Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2899	 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-77.77	4.55	33.78	-61.45	-25.00	-36.45
7518.0	V	-	-	-79.68	8.50	35.82	-59.41	-25.00	-34.41
10024.0	V	-	-	-79.73	10.60	37.87	-57.36	-25.00	-32.36

Table 7-116. Antenna 3b 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.60	4.63	34.03	-61.20	-25.00	-36.20
7779.0	V	-	-	-80.08	9.36	36.28	-58.95	-25.00	-33.95
10372.0	V	-	-	-79.77	10.52	37.75	-57.48	-25.00	-32.48

Table 7-117. Antenna 3b 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	V	-	-	-78.08	5.73	34.65	-60.58	-25.00	-35.58
8040.0	V	-	-	-79.92	9.22	36.30	-58.93	-25.00	-33.93
10720.0	V	-	-	-80.26	11.06	37.80	-57.43	-25.00	-32.43

Table 7-118. Antenna 3b Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.4 Antenna 2 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-77.09	4.38	34.29	-60.94	-40.00	-20.94
6922.5	V	-	-	-79.99	8.85	35.86	-59.37	-40.00	-19.37
9230.0	V	-	-	-80.16	9.74	36.58	-58.65	-40.00	-18.65

Table 7-119. Antenna 2 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	V	-	-	-77.27	4.40	34.13	-61.10	-40.00	-21.10
6930.0	V	-	-	-79.69	8.84	36.15	-59.08	-40.00	-19.08
9240.0	V	-	-	-79.76	9.77	37.01	-58.22	-40.00	-18.22

Table 7-120. Antenna 2 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	V	-	-	-77.07	4.41	34.34	-60.89	-40.00	-20.89
6937.50	V	-	-	-80.14	8.85	35.71	-59.52	-40.00	-19.52
9250.00	V	-	-	-80.15	9.79	36.64	-58.59	-40.00	-18.59

Table 7-121. Antenna 2 Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2899	 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-78.20	4.60	33.40	-61.83	-25.00	-36.83
7530.0	V	-	-	-80.07	8.55	35.48	-59.75	-25.00	-34.75
10040.0	V	-	-	-81.34	10.64	36.30	-58.93	-25.00	-33.93

Table 7-122. Antenna 2 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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-78.72	4.99	33.27	-61.96	-25.00	-36.96
7605.0	V	-	-	-80.17	8.83	35.66	-59.57	-25.00	-34.57
10140.0	V	-	-	-81.07	10.77	36.70	-58.53	-25.00	-33.53

Table 7-123. Antenna 2 Radiated Spurious Data (LTE Band 7 – Mid Channel)

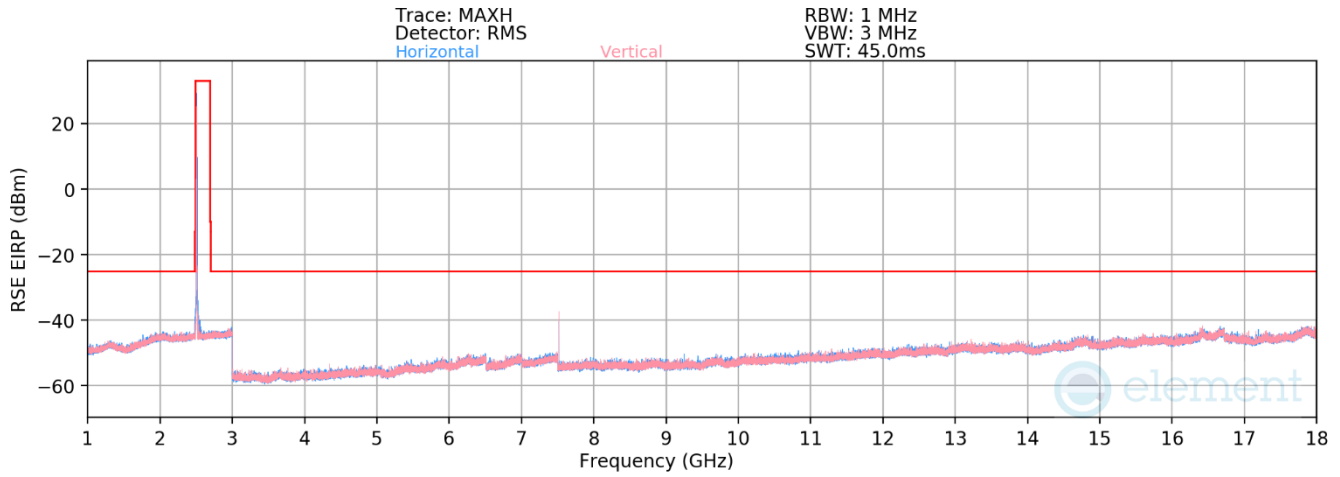
Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-78.21	4.86	33.65	-61.58	-25.00	-36.58
7680.00	V	-	-	-80.47	9.18	35.71	-59.52	-25.00	-34.52
10240.00	V	-	-	-80.46	10.64	37.18	-58.05	-25.00	-33.05

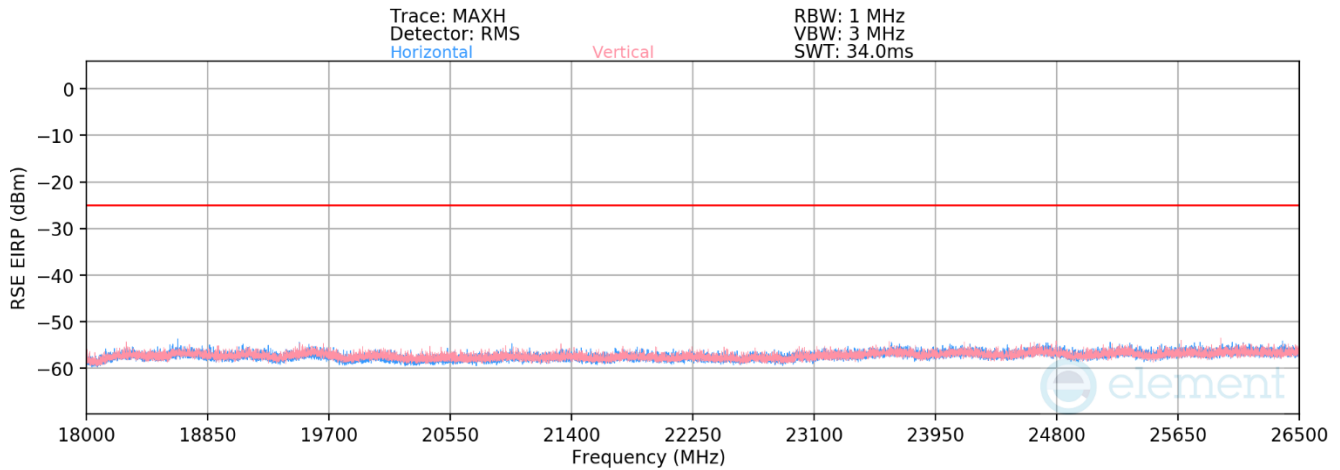
Table 7-124. Antenna 2 Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2899	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41



Plot 7-923. Antenna 2 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 41)



Plot 7-924. Antenna 2 Radiated Spurious Emission above 18GHz (LTE Band 41)

FCC ID: BCGA2899	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	V	-	-	-77.33	4.55	34.22	-61.01	-25.00	-36.01
7518.0	V	278	56	-60.48	8.50	55.02	-40.21	-25.00	-15.21
10024.0	V	-	-	-80.44	10.60	37.16	-58.07	-25.00	-33.07
12530.0	V	-	-	-80.75	13.94	40.19	-55.04	-25.00	-30.04
15036.0	V	-	-	-80.96	14.65	40.69	-54.54	-25.00	-29.54

Table 7-125. Antenna 2 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	V	-	-	-77.68	4.63	33.95	-61.28	-25.00	-36.28
7779.0	V	271	52	-67.31	9.36	49.05	-46.18	-25.00	-21.18
10372.0	V	-	-	-79.90	10.52	37.62	-57.61	-25.00	-32.61
12965.0	V	-	-	-81.06	14.32	40.26	-54.97	-25.00	-29.97
15558.0	V	-	-	-80.75	15.52	41.77	-53.46	-25.00	-28.46

Table 7-126. Antenna 2 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	V	-	-	-78.01	5.73	34.72	-60.51	-25.00	-35.51
8040.0	V	-	-	-79.79	9.22	36.43	-58.80	-25.00	-33.80
10720.0	V	-	-	-80.16	11.06	37.90	-57.33	-25.00	-32.33

Table 7-127. Antenna 2 Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2899	 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	-	-	-79.05	5.02	32.97	-62.26	-40.00	-22.26
6922.5	V	-	-	-79.42	8.26	35.84	-59.39	-40.00	-19.39
9230.0	V	-	-	-80.40	9.43	36.03	-59.20	-40.00	-19.20

Table 7-128. Antenna 2 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	-	-	-78.36	4.26	32.90	-62.33	-40.00	-22.33
6930.0	V	-	-	-79.90	8.77	35.87	-59.36	-40.00	-19.36
9240.0	V	-	-	-79.81	9.32	36.51	-58.72	-40.00	-18.72

Table 7-129. Antenna 2 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	-	-	-79.24	5.09	32.85	-62.38	-40.00	-22.38
6937.5	V	-	-	-79.44	8.18	35.74	-59.49	-40.00	-19.49
9250.0	V	-	-	-80.21	9.31	36.10	-59.13	-40.00	-19.13

Table 7-130. Antenna 2 Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2899		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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-78.28	5.53	34.25	-60.98	-25.00	-35.98
7560.0	V	-	-	-79.35	8.47	36.12	-59.11	-25.00	-34.11
10080.0	V	-	-	-79.31	10.62	38.31	-56.92	-25.00	-31.92

Table 7-131. Antenna 2 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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-78.39	5.12	33.73	-61.50	-25.00	-36.50
7605.0	V	-	-	-80.42	9.28	35.86	-59.37	-25.00	-34.37
10140.0	V	-	-	-79.64	10.05	37.41	-57.82	-25.00	-32.82

Table 7-132. Antenna 2 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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-78.45	5.02	33.57	-61.66	-25.00	-36.66
7650.0	V	-	-	-80.41	9.28	35.87	-59.36	-25.00	-34.36
10200.0	V	-	-	-79.93	10.34	37.41	-57.82	-25.00	-32.82

Table 7-133. Antenna 2 Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2899	 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	-	-	-78.48	5.57	34.09	-61.14	-25.00	-36.14
7638.0	V	-	-	-78.45	8.47	37.02	-58.21	-25.00	-33.21
10184.0	V	-	-	-79.57	10.70	38.13	-57.10	-25.00	-32.10

Table 7-134. Antenna 2 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	-	-	-77.86	5.31	34.45	-60.78	-25.00	-35.78
7779.0	V	-	-	-79.46	8.47	36.01	-59.22	-25.00	-34.22
10372.0	V	-	-	-79.58	11.34	38.76	-56.47	-25.00	-31.47

Table 7-135. Antenna 2 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	-	-	-78.03	5.81	34.78	-60.45	-25.00	-35.45
7920.0	V	-	-	-79.44	8.75	36.31	-58.92	-25.00	-33.92
10560.0	V	-	-	-80.10	11.38	38.28	-56.95	-25.00	-31.95

Table 7-136. Antenna 2 Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2899	 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	V	-	-	-78.82	4.60	32.78	-62.45	-25.00	-37.45
7530.0	V	-	-	-80.37	8.55	35.18	-60.05	-25.00	-35.05
10040.0	V	-	-	-80.56	10.64	37.08	-58.15	-25.00	-33.15

Table 7-137. Antenna 2 Radiated Spurious Data (ULCA LTE B41 – 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	V	-	-	-73.87	4.99	38.12	-62.10	-25.00	-37.10
7605.0	V	-	-	-71.56	8.83	44.27	-59.79	-25.00	-34.79
10140.0	V	-	-	-70.08	10.77	47.69	-58.31	-25.00	-33.31

Table 7-138. Antenna 2 Radiated Spurious Data (ULCA LTE B41 – 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	V	-	-	-78.76	4.86	33.10	-62.13	-25.00	-37.13
7680.0	V	-	-	-80.55	9.18	35.63	-59.60	-25.00	-34.60
10240.0	V	-	-	-80.60	10.64	37.04	-58.19	-25.00	-33.19

Table 7-139. Antenna 2 Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2899	 element	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	V	-	-	-77.80	4.55	33.75	-61.48	-25.00	-36.48
7518.0	V	-	-	-79.75	8.50	35.75	-59.48	-25.00	-34.48
10024.0	V	-	-	-79.82	10.60	37.78	-57.45	-25.00	-32.45

Table 7-140. Antenna 2 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	V	-	-	-77.75	4.63	33.88	-61.35	-25.00	-36.35
7779.0	V	-	-	-79.96	9.36	36.40	-58.83	-25.00	-33.83
10372.0	V	-	-	-79.69	10.52	37.83	-57.40	-25.00	-32.40

Table 7-141. Antenna 2 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	V	-	-	-77.93	5.73	34.80	-60.43	-25.00	-35.43
8040.0	V	-	-	-80.05	9.22	36.17	-59.06	-25.00	-34.06
10720.0	V	-	-	-80.32	11.06	37.74	-57.49	-25.00	-32.49

Table 7-142. Antenna 2 Radiated Spurious Data (ULCA LTE B41 – High Channel)

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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

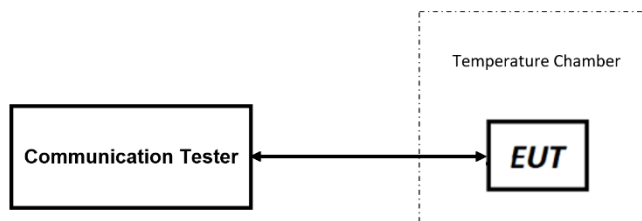



Figure 7-8. Test Instrument & Measurement Setup

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	2.305516345	-0.000516345
		-20	2.305510874	-0.000510874
		-10	2.305516341	-0.000516341
		0	2.305517534	-0.000517534
		+ 10	2.305518563	-0.000518563
		+20 (Ref)	2.305517235	-0.000517235
		+ 30	2.305518561	-0.000518561
		+ 40	2.305516424	-0.000516424
Battery Endpoint	3.40	+ 20	2.305510786	-0.000510786

Table 7-143. 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	2.314483523	-0.000516477
		-20	2.314488569	-0.000511431
		-10	2.314487460	-0.000512540
		0	2.314489673	-0.000510327
		+ 10	2.314485237	-0.000514763
		+20 (Ref)	2.314480783	-0.000519217
		+ 30	2.314489742	-0.000510258
		+ 40	2.314486672	-0.000513328
Battery Endpoint	3.40	+ 20	2.314488562	-0.000511438

Table 7-144. 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	2.500767452	-0.000767452
		-20	2.500768723	-0.000768723
		-10	2.500768562	-0.000768562
		0	2.500768612	-0.000768612
		+ 10	2.500769673	-0.000769673
		+20 (Ref)	2.500768561	-0.000768561
		+ 30	2.500768813	-0.000768813
		+ 40	2.500766348	-0.000766348
		+ 50	2.500767589	-0.000767589
Battery Endpoint	3.40	+ 20	2.500769023	-0.000769023

Table 7-145. 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	2.569267521	-0.000732479
		-20	2.569265378	-0.000734622
		-10	2.569269672	-0.000730328
		0	2.569266488	-0.000733512
		+ 10	2.569269672	-0.000730328
		+20 (Ref)	2.569266231	-0.000733769
		+ 30	2.569265239	-0.000734761
		+ 40	2.569268569	-0.000731431
		+ 50	2.569269033	-0.000730967
Battery Endpoint	3.40	+ 20	2.569268562	-0.000731438

Table 7-146. 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	2.496637561	-0.000637561
		-20	2.496638932	-0.000638932
		-10	2.496637451	-0.000637451
		0	2.496638661	-0.000638661
		+ 10	2.496636489	-0.000636489
		+20 (Ref)	2.496639672	-0.000639672
		+ 30	2.496639073	-0.000639073
		+ 40	2.496636343	-0.000636343
		+ 50	2.496636761	-0.000636761
Battery Endpoint	3.40	+ 20	2.496637459	-0.000637459

Table 7-147. 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	2.689247709	-0.000752291
		-20	2.689248046	-0.000751954
		-10	2.689244618	-0.000755382
		0	2.689249102	-0.000750898
		+ 10	2.689240809	-0.000759191
		+20 (Ref)	2.689246341	-0.000753659
		+ 30	2.689247683	-0.000752317
		+ 40	2.689247589	-0.000752411
		+ 50	2.689249721	-0.000750279
Battery Endpoint	3.40	+ 20	2.689244235	-0.000755765

Table 7-148. Upper Boundary LTE Band 41 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n30				
		Operating Band Lower Boundary (GHz)	2.305	
		Ref. Voltage (VDC):	3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	-30	2.305347837	-0.000347837
		-20	2.305346836	-0.000346836
		-10	2.305343245	-0.000343245
		0	2.305342431	-0.000342431
		+ 10	2.305344140	-0.000344140
		+20 (Ref)	2.305340793	-0.000340793
		+ 30	2.305343676	-0.000343676
		+ 40	2.305339109	-0.000339109
		+ 50	2.305345069	-0.000345069
Battery Endpoint	3.40	+ 20	2.305349357	-0.000349357

Table 7-149. Lower Boundary NR Band n30 Frequency Stability Data

NR Band n30				
		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	2.314640424	-0.000359576
		-20	2.314642972	-0.000357028
		-10	2.314638413	-0.000361587
		0	2.314639050	-0.000360950
		+ 10	2.314641621	-0.000358379
		+20 (Ref)	2.314644348	-0.000355652
		+ 30	2.314640570	-0.000359430
		+ 40	2.314636707	-0.000363293
		+ 50	2.314640274	-0.000359726
Battery Endpoint	3.40	+ 20	2.314641212	-0.000358788

Table 7-150. 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	2.500802565	-0.000802565
		-20	2.500803296	-0.000803296
		-10	2.500797396	-0.000797396
		0	2.500781404	-0.000781404
		+ 10	2.500785695	-0.000785695
		+20 (Ref)	2.500772141	-0.000772141
		+ 30	2.500760384	-0.000760384
		+ 40	2.500762284	-0.000762284
		+ 50	2.500758112	-0.000758112
Battery Endpoint	3.40	+ 20	2.500756649	-0.000756649

Table 7-151. 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	2.569277902	-0.000722098
		-20	2.569276748	-0.000723252
		-10	2.569288638	-0.000711362
		0	2.569278764	-0.000721236
		+ 10	2.569276361	-0.000723639
		+20 (Ref)	2.569267048	-0.000732952
		+ 30	2.569263962	-0.000736038
		+ 40	2.569272675	-0.000727325
		+ 50	2.569271073	-0.000728927
Battery Endpoint	3.40	+ 20	2.569279580	-0.000720420

Table 7-152. 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	2.497375616	-0.001375616
		-20	2.497375333	-0.001375333
		-10	2.497337688	-0.001337688
		0	2.497342070	-0.001342070
		+ 10	2.497307745	-0.001307745
		+20 (Ref)	2.497309301	-0.001309301
		+ 30	2.497313611	-0.001313611
		+ 40	2.497285462	-0.001285462
		+ 50	2.497299656	-0.001299656
Battery Endpoint	3.40	+ 20	2.497298346	-0.001298346

Table 7-153. 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	2.688598287	-0.001401713
		-20	2.688583570	-0.001416430
		-10	2.688601924	-0.001398076
		0	2.688605662	-0.001394338
		+ 10	2.688604163	-0.001395837
		+20 (Ref)	2.688592131	-0.001407869
		+ 30	2.688594250	-0.001405750
		+ 40	2.688606529	-0.001393471
		+ 50	2.688590143	-0.001409857
Battery Endpoint	3.40	+ 20	2.688598236	-0.001401764

Table 7-154. 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: BCGA2899** complies with all the requirements of Part 27 of the FCC rules.

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