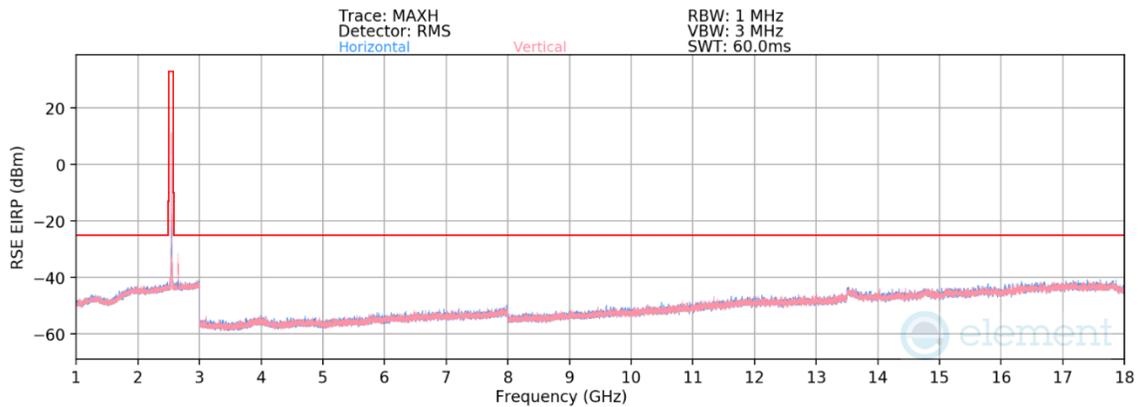
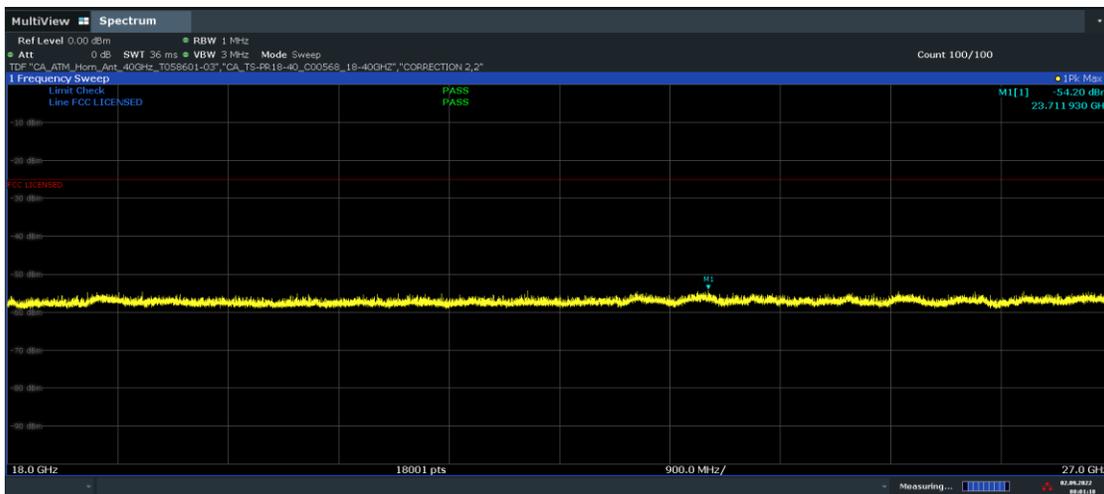


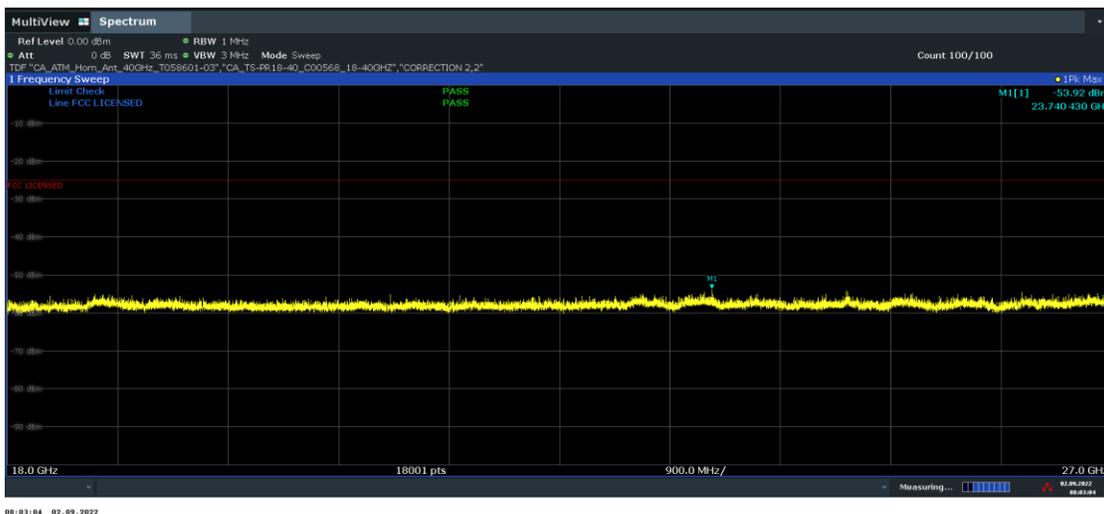
ULCA - LTE B7



Plot 7-314. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B7)



Plot 7-315. Antenna 4b Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. H)



Plot 7-316. Antenna 4b Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. V)

FCC ID: BCGA2435	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	-	-	-77.69	3.94	33.25	-62.01	-25.00	-37.01
7530.0	V	-	-	-79.71	8.95	36.24	-59.02	-25.00	-34.02
10040.0	V	-	-	-82.51	13.28	37.77	-57.49	-25.00	-32.49

Table 7-65. 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	V	-	-	-77.63	3.99	33.36	-61.89	-25.00	-36.89
7605.0	V	-	-	-79.77	9.07	36.30	-58.95	-25.00	-33.95
10140.0	V	-	-	-82.86	13.37	37.51	-57.75	-25.00	-32.75

Table 7-66. 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	V	-	-	-77.75	4.41	33.66	-61.59	-25.00	-36.59
7680.0	V	-	-	-79.86	9.02	36.16	-59.10	-25.00	-34.10
10240.0	V	-	-	-82.61	14.22	38.61	-56.65	-25.00	-31.65

Table 7-67. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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	V	-	-	-79.31	7.58	35.27	-59.99	-25.00	-34.99
7518.0	V	-	-	-80.10	10.86	37.76	-57.50	-25.00	-32.50
10024.0	V	-	-	-80.89	13.71	39.82	-55.43	-25.00	-30.43

Table 7-68. 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	-	-	-79.11	7.66	35.55	-59.71	-25.00	-34.71
7779.0	V	-	-	-79.77	10.80	38.03	-57.23	-25.00	-32.23
10372.0	V	-	-	-81.07	14.81	40.74	-54.52	-25.00	-29.52

Table 7-69. 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	-	-	-79.21	8.30	36.09	-59.16	-25.00	-34.16
8040.0	V	-	-	-80.12	10.99	37.87	-57.39	-25.00	-32.39
10720.0	V	-	-	-81.07	15.88	41.81	-53.44	-25.00	-28.44

Table 7-70. Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.2 Antenna 1 Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 24

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	-	-	-79.84	6.91	34.07	-61.19	-40.00	-21.19
6922.5	H	-	-	-80.80	10.28	36.48	-58.78	-40.00	-18.78
9230.0	H	-	-	-81.56	12.07	37.51	-57.74	-40.00	-17.74

Table 7-71. 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	-	-	-79.77	6.91	34.14	-61.12	-40.00	-21.12
6930.0	H	-	-	-80.58	10.28	36.70	-58.56	-40.00	-18.56
9240.0	H	-	-	-81.31	12.07	37.76	-57.49	-40.00	-17.49

Table 7-72. Radiated Spurious Data (LTE Band 30 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 24

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	-	-	-79.72	6.85	34.13	-61.13	-40.00	-21.13
6937.50	H	-	-	-80.67	10.21	36.54	-58.72	-40.00	-18.72
9250.00	H	-	-	-81.61	12.32	37.71	-57.55	-40.00	-17.55

Table 7-73. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2435	 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	H	-	-	-80.65	7.60	33.95	-61.31	-25.00	-36.31
7530.0	H	-	-	-81.09	10.96	36.87	-58.39	-25.00	-33.39
10040.0	H	-	-	-82.62	13.87	38.25	-57.00	-25.00	-32.00

Table 7-74. 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	H	-	-	-80.56	7.42	33.86	-61.40	-25.00	-36.40
7605.0	H	-	-	-81.18	10.93	36.75	-58.51	-25.00	-33.51
10140.0	H	-	-	-82.38	14.68	39.30	-55.95	-25.00	-30.95

Table 7-75. Radiated Spurious Data (LTE Band 7 – Mid Channel)

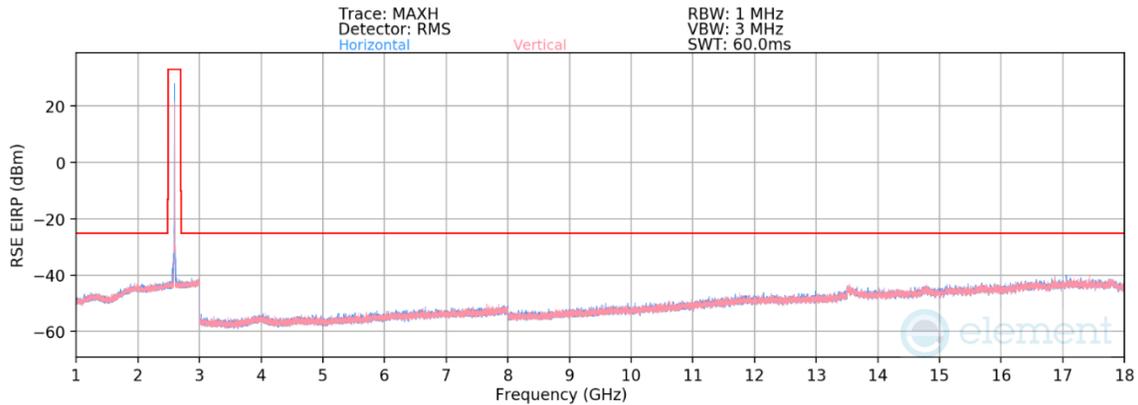
Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

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	H	-	-	-80.57	7.72	34.15	-61.11	-25.00	-36.11
7680.00	H	-	-	-80.62	10.32	36.70	-58.56	-25.00	-33.56
10240.00	H	-	-	-82.18	14.11	38.93	-56.33	-25.00	-31.33

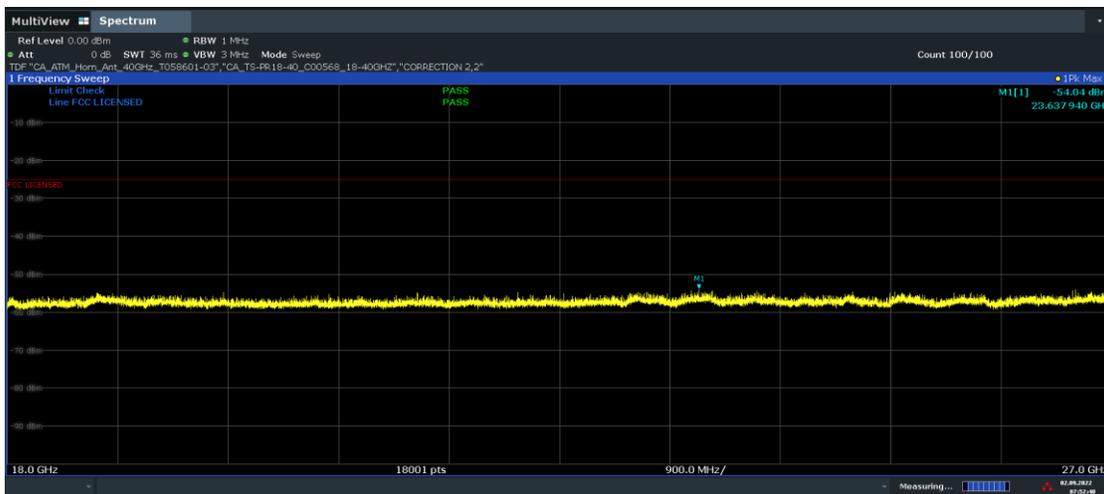
Table 7-76. Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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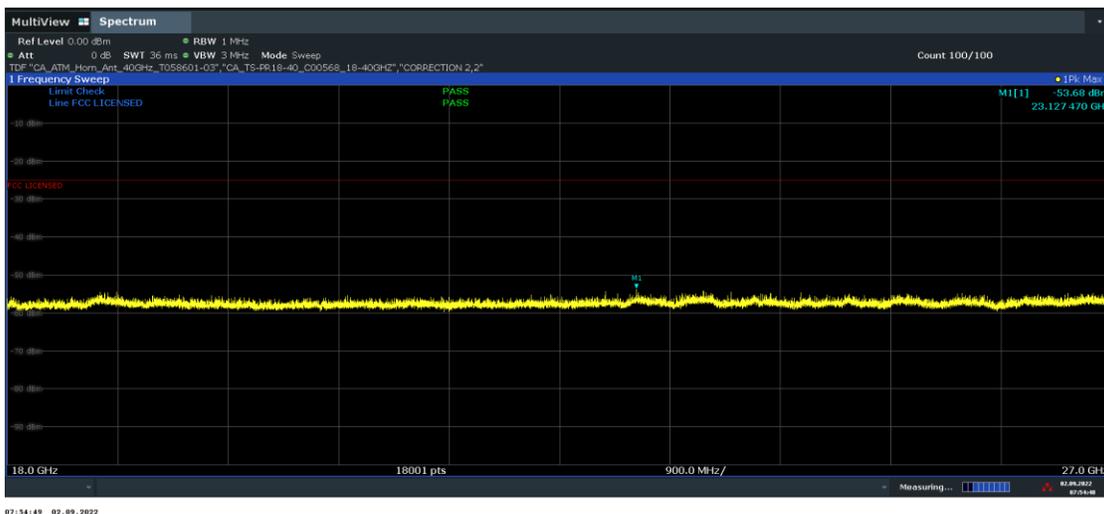
LTE Band 41



Plot 7-317. Antenna 1 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 7)



Plot 7-318. Antenna 1 Radiated Spurious Emission above 18GHz (LTE B41, Pol. H)



Plot 7-319. Antenna 1 Radiated Spurious Emission above 18GHz (LTE B41, Pol. V)

FCC ID: BCGA2435	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	H	-	-	-80.16	7.61	34.45	-60.81	-25.00	-35.81
7518.0	H	-	-	-80.83	10.90	37.07	-58.19	-25.00	-33.19
10024.0	H	-	-	-81.75	13.74	38.99	-56.27	-25.00	-31.27

Table 7-77. 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	-	-	-80.22	7.62	34.40	-60.86	-25.00	-35.86
7779.0	H	-	-	-80.41	10.79	37.38	-57.88	-25.00	-32.88
10372.0	H	-	-	-81.95	14.80	39.85	-55.41	-25.00	-30.41

Table 7-78. 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	-	-	-80.27	8.30	35.03	-60.22	-25.00	-35.22
8040.0	H	-	-	-81.02	10.99	36.97	-58.29	-25.00	-33.29
10720.0	H	-	-	-81.97	15.88	40.91	-54.34	-25.00	-29.34

Table 7-79. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2435	 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 / 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]
4615.0	H	-	-	-79.28	6.91	34.63	-60.63	-40.00	-20.63
6922.5	H	-	-	-80.15	10.28	37.13	-58.13	-40.00	-18.13
9230.0	H	-	-	-80.85	12.07	38.22	-57.03	-40.00	-17.03

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 [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-79.32	6.83	34.51	-60.75	-40.00	-20.75
6930.0	H	-	-	-80.01	10.23	37.22	-58.03	-40.00	-18.03
9240.0	H	-	-	-80.98	12.25	38.27	-56.99	-40.00	-16.99

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

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
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]
4625.0	H	-	-	-79.07	6.85	34.78	-60.48	-40.00	-20.48
6937.5	H	-	-	-80.22	10.21	36.99	-58.27	-40.00	-18.27
9250.0	H	-	-	-80.92	12.32	38.40	-56.86	-40.00	-16.86

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

FCC ID: BCGA2435	 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	H	-	-	-77.59	3.89	33.30	-61.96	-25.00	-36.96
7560.0	H	-	-	-80.09	8.93	35.84	-59.42	-25.00	-34.42
10080.0	H	-	-	-82.95	13.17	37.22	-58.04	-25.00	-33.04

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.83	3.99	33.16	-62.09	-25.00	-37.09
7605.0	H	-	-	-80.07	9.07	36.00	-59.25	-25.00	-34.25
10140.0	H	-	-	-83.04	13.37	37.33	-57.93	-25.00	-32.93

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-77.81	4.23	33.42	-61.84	-25.00	-36.84
7650.0	H	-	-	-80.15	8.86	35.71	-59.55	-25.00	-34.55
10200.0	H	-	-	-83.20	13.78	37.58	-57.68	-25.00	-32.68

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 240 of 274

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	H	-	-	-80.08	7.62	34.54	-60.72	-25.00	-35.72
7638.0	H	-	-	-80.25	11.14	37.89	-57.37	-25.00	-32.37
10184.0	H	-	-	-81.61	14.23	39.62	-55.64	-25.00	-30.64

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-80.15	7.66	34.51	-60.75	-25.00	-35.75
7779.0	H	-	-	-80.22	10.80	37.58	-57.68	-25.00	-32.68
10372.0	H	-	-	-81.87	14.81	39.94	-55.32	-25.00	-30.32

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	H	-	-	-79.99	7.40	34.41	-60.85	-25.00	-35.85
7920.0	H	-	-	-80.89	11.28	37.39	-57.87	-25.00	-32.87
10560.0	H	-	-	-81.58	14.86	40.28	-54.98	-25.00	-29.98

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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	-	-	-77.66	3.94	33.28	-61.98	-25.00	-36.98
7530.0	H	-	-	-79.92	8.95	36.03	-59.23	-25.00	-34.23
10040.0	H	-	-	-82.46	13.28	37.82	-57.44	-25.00	-32.44

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	-	-	-77.52	3.99	33.47	-61.78	-25.00	-36.78
7605.0	H	-	-	-79.71	9.07	36.36	-58.89	-25.00	-33.89
10140.0	H	-	-	-82.75	13.37	37.62	-57.64	-25.00	-32.64

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

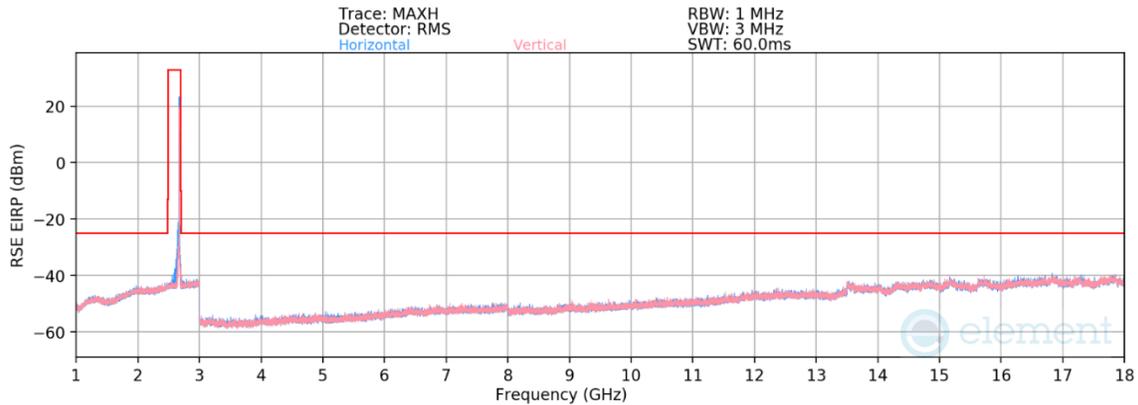
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

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	-	-	-77.55	4.41	33.86	-61.39	-25.00	-36.39
7680.0	H	-	-	-79.80	9.02	36.22	-59.04	-25.00	-34.04
10240.0	H	-	-	-82.84	14.22	38.38	-56.88	-25.00	-31.88

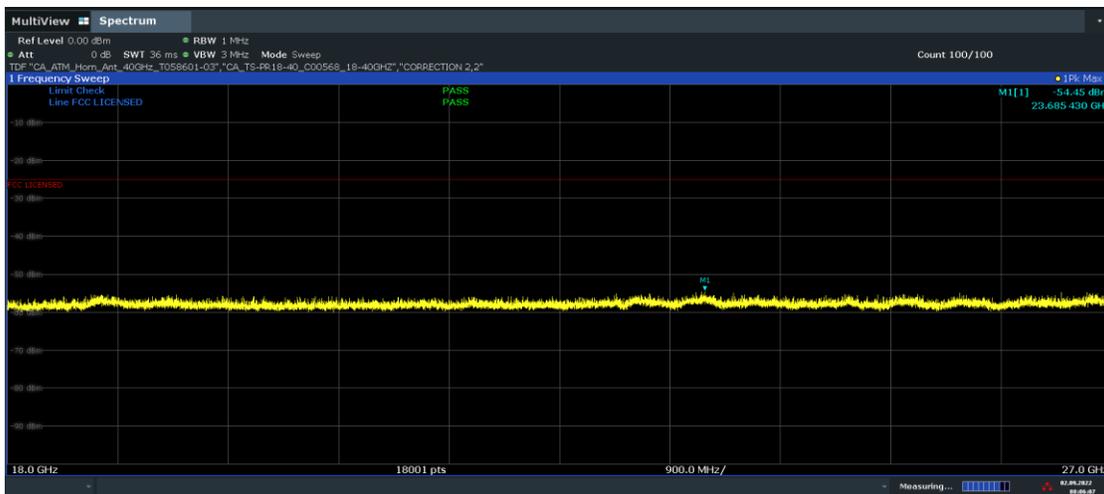
Table 7-91. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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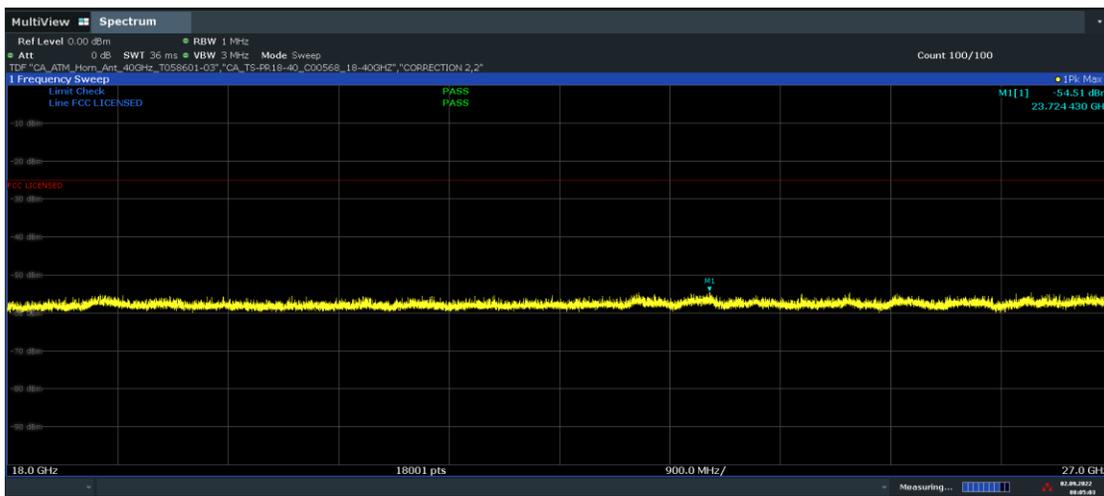
ULCA - LTE B41



Plot 7-320. Antenna 1 Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B41)



Plot 7-321. Antenna 1 Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. H)



Plot 7-322. Antenna 1 Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. V)

FCC ID: BCGA2435	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	-	-	-79.79	7.58	34.79	-60.47	-25.00	-35.47
7518.0	H	-	-	-80.67	10.86	37.19	-58.07	-25.00	-33.07
10024.0	H	-	-	-81.17	13.71	39.54	-55.71	-25.00	-30.71

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	-	-	-78.89	7.66	35.77	-59.49	-25.00	-34.49
7779.0	H	-	-	-80.10	10.80	37.70	-57.56	-25.00	-32.56
10372.0	H	-	-	-81.70	14.81	40.11	-55.15	-25.00	-30.15

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

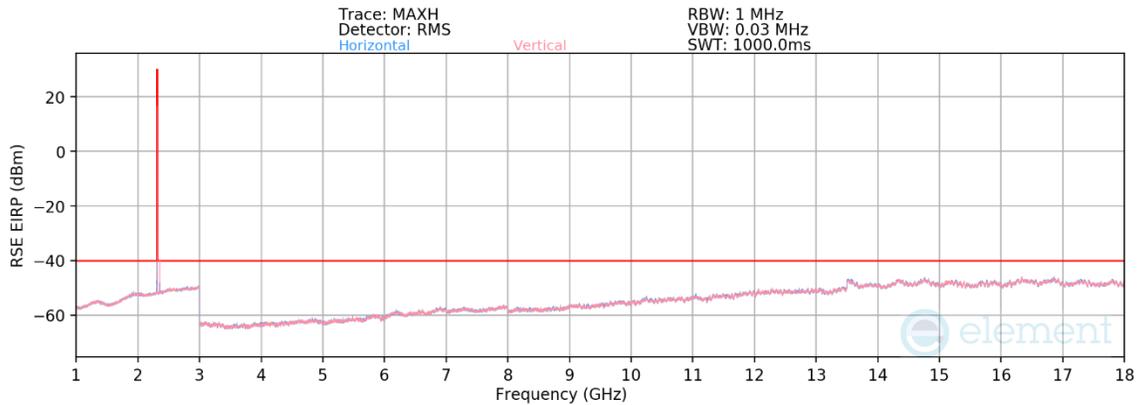
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-79.12	8.32	36.20	-59.05	-25.00	-34.05
8040.0	H	-	-	-80.13	11.03	37.90	-57.36	-25.00	-32.36
10720.0	H	-	-	-81.17	15.87	41.70	-53.55	-25.00	-28.55

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

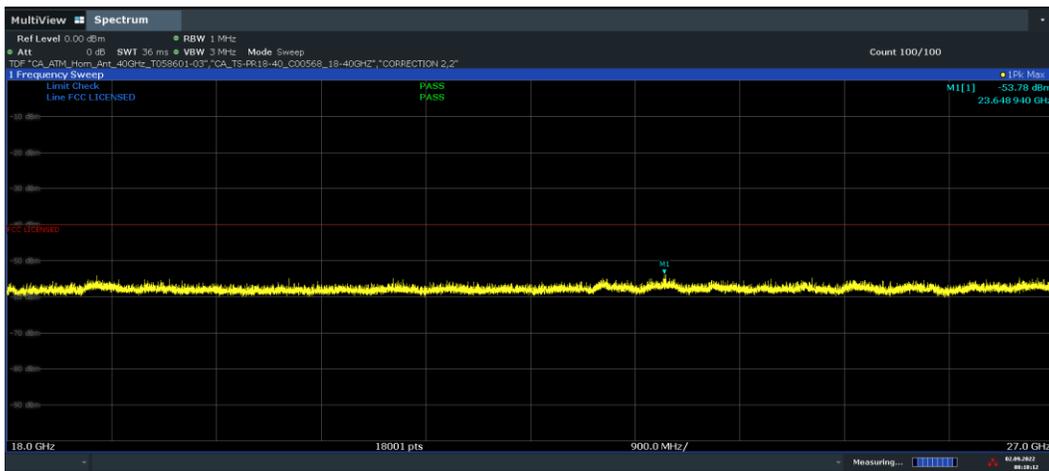
FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 244 of 274

7.7.3 Antenna 3 Radiated Spurious Emission Measurements

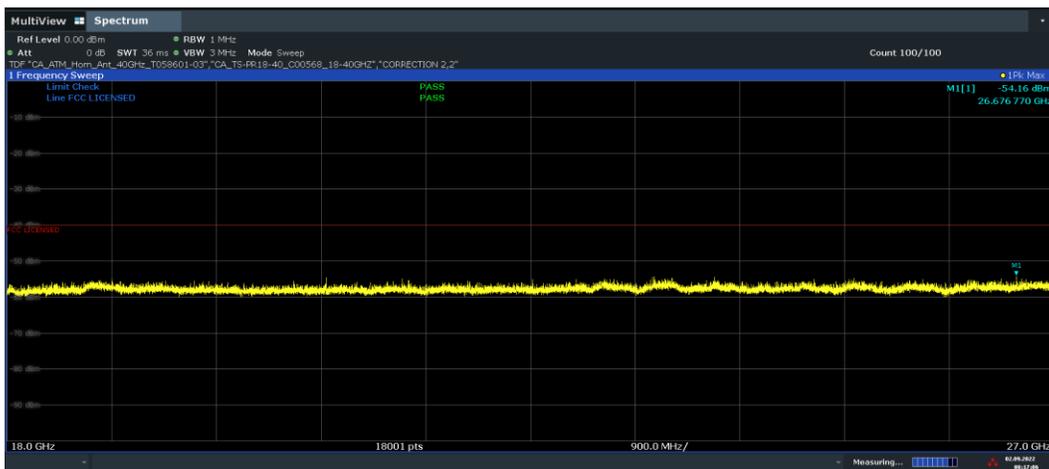
LTE Band 30



Plot 7-323. Antenna 3 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 30)



Plot 7-324. Antenna 3 Radiated Spurious Emission above 18GHz (LTE B30, Pol. H)



Plot 7-325. Antenna 3 Radiated Spurious Emission above 18GHz (LTE B30, Pol. V)

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 24

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	-	-	-79.84	6.82	33.98	-61.27	-40.00	-21.27
6922.5	V	-	-	-80.71	10.30	36.59	-58.67	-40.00	-18.67
9230.0	V	-	-	-81.56	12.14	37.58	-57.68	-40.00	-17.68

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	V	-	-	-79.93	6.76	33.83	-61.43	-40.00	-21.43
6930.0	V	-	-	-80.54	10.26	36.72	-58.54	-40.00	-18.54
9240.0	V	-	-	-81.46	12.31	37.85	-57.40	-40.00	-17.40

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

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 24

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	-	-	-79.64	6.79	34.15	-61.11	-40.00	-21.11
6937.50	V	-	-	-80.71	10.24	36.53	-58.73	-40.00	-18.73
9250.00	V	-	-	-82.52	12.38	36.86	-58.40	-40.00	-18.40

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 246 of 274

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	-	-	-80.67	7.63	33.96	-61.30	-25.00	-36.30
7530.0	V	-	-	-81.43	10.98	36.55	-58.71	-25.00	-33.71
10040.0	V	-	-	-82.46	13.88	38.42	-56.84	-25.00	-31.84

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-80.68	7.44	33.76	-61.50	-25.00	-36.50
7605.0	V	-	-	-81.09	10.90	36.81	-58.44	-25.00	-33.44
10140.0	V	-	-	-82.13	14.67	39.54	-55.71	-25.00	-30.71

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-80.70	7.67	33.97	-61.29	-25.00	-36.29
7680.00	V	-	-	-80.66	10.32	36.66	-58.60	-25.00	-33.60
10240.00	V	-	-	-82.20	14.12	38.92	-56.33	-25.00	-31.33

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 247 of 274

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	-	-	-80.00	7.61	34.61	-60.65	-25.00	-35.65
7518.0	V	-	-	-81.13	10.90	36.77	-58.49	-25.00	-33.49
10024.0	V	-	-	-81.68	13.74	39.06	-56.20	-25.00	-31.20

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	V	-	-	-80.01	7.62	34.61	-60.65	-25.00	-35.65
7779.0	V	-	-	-80.47	10.79	37.32	-57.94	-25.00	-32.94
10372.0	V	-	-	-82.11	14.80	39.69	-55.57	-25.00	-30.57

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

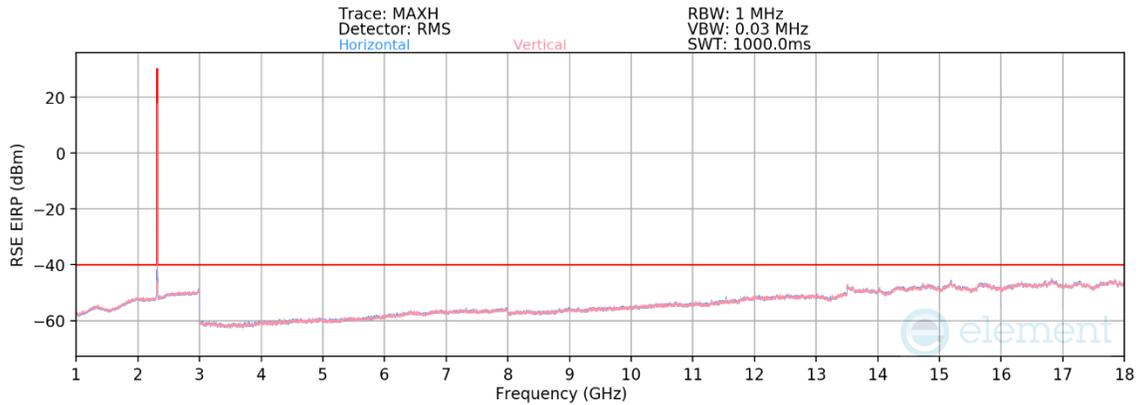
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

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	V	-	-	-80.10	8.30	35.20	-60.05	-25.00	-35.05
8040.0	V	-	-	-81.00	10.99	36.99	-58.27	-25.00	-33.27
10720.0	V	-	-	-82.07	15.88	40.81	-54.44	-25.00	-29.44

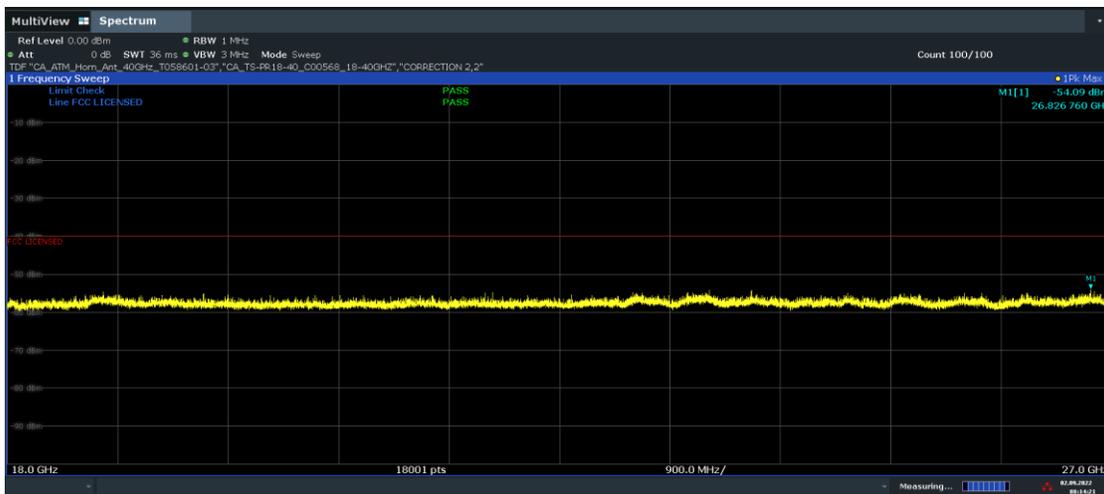
Table 7-103. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 248 of 274

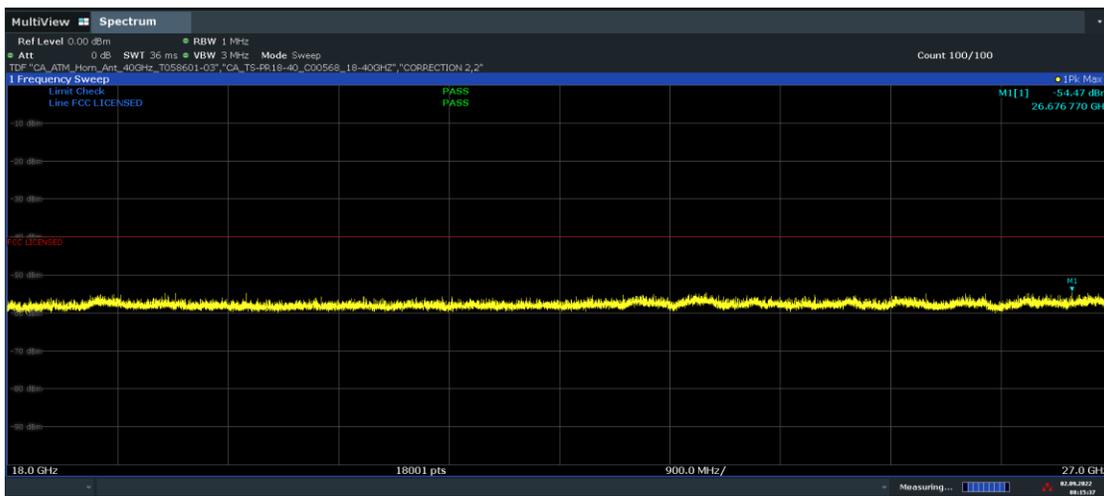
NR Band n30



Plot 7-326. Antenna 3 Radiated Spurious Plot 1GHz – 18GHz (NR Band n30)



Plot 7-327. Antenna 3 Radiated Spurious Emission above 18GHz (NR Band n30, Pol. H)



Plot 7-328. Antenna 3 Radiated Spurious Emission above 18GHz (NR Band n30, Pol. V)

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
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]
4615.0	V	-	-	-79.31	6.82	34.51	-60.74	-40.00	-20.74
6922.5	V	272	182	-73.68	10.30	43.62	-51.64	-40.00	-11.64
9230.0	V	-	-	-80.83	12.14	38.31	-56.95	-40.00	-16.95
11537.5	V	-	-	-82.37	16.79	41.42	-53.84	-40.00	-13.84
13845.0	V	-	-	-80.66	18.30	44.64	-50.62	-40.00	-10.62

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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-79.36	6.76	34.40	-60.86	-40.00	-20.86
6930.0	V	278	206	-70.70	10.26	46.56	-48.70	-40.00	-8.70
9240.0	V	-	-	-81.04	12.31	38.27	-56.98	-40.00	-16.98
11550.0	V	-	-	-82.34	16.73	41.39	-53.86	-40.00	-13.86
13860.0	V	-	-	-80.57	18.01	44.44	-50.82	-40.00	-10.82

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

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
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]
4625.0	V	-	-	-77.45	3.92	33.47	-61.79	-40.00	-21.79
6937.5	V	227	216	-77.39	8.30	37.91	-57.35	-40.00	-17.35
9250.0	V	-	-	-82.07	11.27	36.20	-59.06	-40.00	-19.06
11562.5	V	-	-	-83.74	17.18	40.44	-54.82	-40.00	-14.82
13875.0	V	-	-	-83.53	18.77	42.24	-53.02	-40.00	-13.02

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

FCC ID: BCGA2435	 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	3.89	33.08	-62.18	-25.00	-37.18
7560.0	V	289	218	-79.38	8.93	36.55	-58.71	-25.00	-33.71
10080.0	V	-	-	-83.07	13.17	37.10	-58.16	-25.00	-33.16
12600.0	V	-	-	-84.36	17.97	40.61	-54.65	-25.00	-29.65
15120.0	V	-	-	-84.68	20.67	42.99	-52.27	-25.00	-27.27

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.83	3.99	33.16	-62.09	-25.00	-37.09
7605.0	H	-	-	-80.07	9.07	36.00	-59.25	-25.00	-34.25
10140.0	H	-	-	-83.04	13.37	37.33	-57.93	-25.00	-32.93

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-77.81	4.23	33.42	-61.84	-25.00	-36.84
7650.0	H	-	-	-80.15	8.86	35.71	-59.55	-25.00	-34.55
10200.0	H	-	-	-83.20	13.78	37.58	-57.68	-25.00	-32.68

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 251 of 274

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	-	-	-79.72	7.60	34.88	-60.38	-25.00	-35.38
7638.0	V	269	31	-77.08	11.17	41.09	-54.17	-25.00	-29.17
10184.0	V	-	-	-81.72	14.24	39.52	-55.74	-25.00	-30.74
12730.0	V	-	-	-83.03	18.38	42.35	-52.91	-25.00	-27.91
15276.0	V	-	-	-82.67	20.90	45.23	-50.02	-25.00	-25.02

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-79.89	7.62	34.73	-60.53	-25.00	-35.53
7779.0	V	287	61	-75.97	10.79	41.82	-53.44	-25.00	-28.44
10372.0	V	-	-	-81.92	14.80	39.88	-55.38	-25.00	-30.38
12965.0	V	-	-	-83.40	18.36	41.96	-53.29	-25.00	-28.29
15558.0	V	-	-	-83.56	21.82	45.26	-49.99	-25.00	-24.99

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-79.75	7.43	34.68	-60.57	-25.00	-35.57
7920.0	V	290	348	-75.40	11.29	42.89	-52.37	-25.00	-27.37
10560.0	V	-	-	-81.82	14.86	40.04	-55.21	-25.00	-30.21
13200.0	V	-	-	-82.85	18.39	42.54	-52.72	-25.00	-27.72
15840.0	V	-	-	-83.41	21.66	45.25	-50.01	-25.00	-25.01

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

FCC ID: BCGA2435	 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	-	-	-77.50	3.94	33.44	-61.82	-25.00	-36.82
7530.0	V	-	-	-79.92	8.95	36.03	-59.23	-25.00	-34.23
10040.0	V	-	-	-82.37	13.28	37.91	-57.35	-25.00	-32.35

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	V	-	-	-77.30	3.99	33.69	-61.56	-25.00	-36.56
7605.0	V	-	-	-79.80	9.07	36.27	-58.98	-25.00	-33.98
10140.0	V	-	-	-82.83	13.37	37.54	-57.72	-25.00	-32.72

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	V	-	-	-77.50	4.41	33.91	-61.34	-25.00	-36.34
7680.0	V	-	-	-79.67	9.02	36.35	-58.91	-25.00	-33.91
10240.0	V	-	-	-82.87	14.22	38.35	-56.91	-25.00	-31.91

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

FCC ID: BCGA2435	 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	-	-	-79.22	7.58	35.36	-59.90	-25.00	-34.90
7518.0	V	-	-	-79.91	10.86	37.95	-57.31	-25.00	-32.31
10024.0	V	-	-	-80.89	13.71	39.82	-55.43	-25.00	-30.43

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	V	-	-	-79.98	7.66	34.68	-60.58	-25.00	-35.58
7779.0	V	-	-	-79.72	10.80	38.08	-57.18	-25.00	-32.18
10372.0	V	-	-	-81.04	14.81	40.77	-54.49	-25.00	-29.49

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	V	-	-	-79.18	8.32	36.14	-59.11	-25.00	-34.11
8040.0	V	-	-	-80.06	11.03	37.97	-57.29	-25.00	-32.29
10720.0	V	-	-	-81.13	15.87	41.74	-53.51	-25.00	-28.51

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.4 Antenna 2b Radiated Spurious Emission Measurements

LTE Band 30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 24

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	-	-	-79.72	6.82	34.10	-61.15	-40.00	-21.15
6922.5	V	-	-	-80.56	10.30	36.74	-58.52	-40.00	-18.52
9230.0	V	-	-	-81.66	12.14	37.48	-57.78	-40.00	-17.78

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-79.77	6.76	33.99	-61.27	-40.00	-21.27
6930.0	V	-	-	-80.52	10.26	36.74	-58.52	-40.00	-18.52
9240.0	V	-	-	-81.44	12.31	37.87	-57.38	-40.00	-17.38

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

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 24

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	-	-	-79.86	6.79	33.93	-61.33	-40.00	-21.33
6937.50	V	-	-	-80.42	10.24	36.82	-58.44	-40.00	-18.44
9250.00	V	-	-	-81.80	12.38	37.58	-57.68	-40.00	-17.68

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

FCC ID: BCGA2435	 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	V	-	-	-80.55	7.63	34.08	-61.18	-25.00	-36.18
7530.0	V	-	-	-81.40	10.98	36.58	-58.68	-25.00	-33.68
10040.0	V	-	-	-82.70	13.88	38.18	-57.08	-25.00	-32.08

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	V	-	-	-80.75	7.44	33.69	-61.57	-25.00	-36.57
7605.0	V	-	-	-81.15	10.90	36.75	-58.50	-25.00	-33.50
10140.0	V	-	-	-82.33	14.67	39.34	-55.91	-25.00	-30.91

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	V	-	-	-80.53	7.67	34.14	-61.12	-25.00	-36.12
7680.00	V	-	-	-80.67	10.32	36.65	-58.61	-25.00	-33.61
10240.00	V	-	-	-82.28	14.12	38.84	-56.41	-25.00	-31.41

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

FCC ID: BCGA2435	 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	-	-	-79.77	7.61	34.84	-60.42	-25.00	-35.42
7518.0	V	-	-	-83.16	10.90	34.74	-60.52	-25.00	-35.52
10024.0	V	-	-	-84.50	13.74	36.24	-59.02	-25.00	-34.02

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	V	-	-	-79.80	7.62	34.82	-60.44	-25.00	-35.44
7779.0	V	258	5	-70.84	10.79	46.95	-48.31	-25.00	-23.31
10372.0	V	-	-	-81.77	14.80	40.03	-55.23	-25.00	-30.23
12965.0	V	-	-	-83.31	18.36	42.05	-53.20	-25.00	-28.20
15558.0	V	-	-	-83.25	21.82	45.57	-49.68	-25.00	-24.68

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	V	-	-	-79.75	8.30	35.55	-59.70	-25.00	-34.70
8040.0	V	266	8	-74.30	10.99	43.69	-51.57	-25.00	-26.57
10720.0	V	-	-	-82.11	15.88	40.77	-54.48	-25.00	-29.48
13400.0	V	-	-	-82.87	18.38	42.51	-52.75	-25.00	-27.75
16080.0	V	-	-	-83.69	22.41	45.72	-49.53	-25.00	-24.53

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

FCC ID: BCGA2435	 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 / 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]
4615.0	V	-	-	-77.69	4.15	33.46	-61.80	-40.00	-21.80
6922.5	V	-	-	-79.88	8.46	35.58	-59.68	-40.00	-19.68
9230.0	V	-	-	-82.10	11.42	36.32	-58.94	-40.00	-18.94

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	-	-	-77.70	3.96	33.26	-61.99	-40.00	-21.99
6930.0	V	-	-	-79.77	8.37	35.60	-59.66	-40.00	-19.66
9240.0	V	-	-	-82.09	11.33	36.24	-59.02	-40.00	-19.02

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

Bandwidth (MHz):	5
Frequency (MHz):	2312.5
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]
4625.0	V	-	-	-77.71	3.92	33.21	-62.05	-40.00	-22.05
6937.5	V	-	-	-79.68	8.30	35.62	-59.64	-40.00	-19.64
9250.0	V	-	-	-82.05	11.27	36.22	-59.04	-40.00	-19.04

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

FCC ID: BCGA2435	 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	-	-	-77.65	3.89	33.24	-62.02	-25.00	-37.02
7560.0	V	-	-	-80.23	8.93	35.70	-59.56	-25.00	-34.56
10080.0	V	-	-	-83.13	13.17	37.04	-58.22	-25.00	-33.22

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-77.86	3.99	33.13	-62.12	-25.00	-37.12
7605.0	V	-	-	-80.27	9.07	35.80	-59.45	-25.00	-34.45
10140.0	V	-	-	-83.23	13.37	37.14	-58.12	-25.00	-33.12

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-77.69	4.23	33.54	-61.72	-25.00	-36.72
7650.0	V	-	-	-80.23	8.86	35.63	-59.63	-25.00	-34.63
10200.0	V	-	-	-83.32	13.78	37.46	-57.80	-25.00	-32.80

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

FCC ID: BCGA2435	 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	-	-	-80.04	7.60	34.56	-60.70	-25.00	-35.70
7638.0	V	-	-	-80.64	11.17	37.53	-57.73	-25.00	-32.73
10184.0	V	-	-	-81.86	14.24	39.38	-55.88	-25.00	-30.88

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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-79.99	7.62	34.63	-60.63	-25.00	-35.63
7779.0	V	-	-	-80.22	10.79	37.57	-57.69	-25.00	-32.69
10372.0	V	-	-	-81.84	14.80	39.96	-55.30	-25.00	-30.30

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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-79.68	7.43	34.75	-60.50	-25.00	-35.50
7920.0	V	-	-	-80.92	11.29	37.37	-57.89	-25.00	-32.89
10560.0	V	-	-	-81.99	14.86	39.87	-55.38	-25.00	-30.38

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

FCC ID: BCGA2435	 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	-	-	-77.78	3.94	33.16	-62.10	-25.00	-37.10
7530.0	V	-	-	-79.92	8.95	36.03	-59.23	-25.00	-34.23
10040.0	V	-	-	-82.66	13.28	37.62	-57.64	-25.00	-32.64

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	V	-	-	-77.43	3.99	33.56	-61.69	-25.00	-36.69
7605.0	V	-	-	-79.81	9.07	36.26	-58.99	-25.00	-33.99
10140.0	V	-	-	-82.82	13.37	37.55	-57.71	-25.00	-32.71

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	V	-	-	-77.53	4.41	33.88	-61.37	-25.00	-36.37
7680.0	H	119	240	-79.04	9.02	36.98	-58.28	-25.00	-33.28
10240.0	H	-	-	-82.99	14.22	38.23	-57.03	-25.00	-32.03
12800.0	H	-	-	-84.39	18.77	41.38	-53.87	-25.00	-28.87
15360.0	H	-	-	-84.00	20.60	43.60	-51.65	-25.00	-26.65

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

FCC ID: BCGA2435	 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	-	-	-79.35	7.58	35.23	-60.03	-25.00	-35.03
7518.0	V	-	-	-80.12	10.86	37.74	-57.52	-25.00	-32.52
10024.0	V	-	-	-80.92	13.71	39.79	-55.46	-25.00	-30.46

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	V	-	-	-79.25	7.66	35.41	-59.85	-25.00	-34.85
7779.0	V	288	5	-79.76	10.80	38.04	-57.22	-25.00	-32.22
10372.0	V	-	-	-81.02	14.81	40.79	-54.47	-25.00	-29.47
12965.0	V	-	-	-82.06	18.38	43.32	-51.94	-25.00	-26.94
15558.0	V	-	-	-82.38	21.84	46.46	-48.80	-25.00	-23.80

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	V	-	-	-79.11	8.32	36.21	-59.04	-25.00	-34.04
8040.0	V	252	25	-79.17	11.03	38.86	-56.40	-25.00	-31.40
10720.0	V	-	-	-80.87	15.87	42.00	-53.25	-25.00	-28.25
13400.0	V	-	-	-81.39	18.38	43.99	-51.27	-25.00	-26.27
16080.0	V	-	-	-82.52	22.40	46.88	-48.38	-25.00	-23.38

Table 7-142. 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

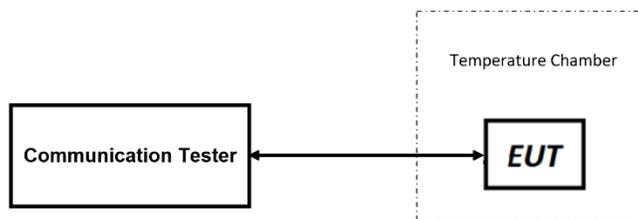


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 30							
		Low Channel Frequency (Hz):		2,307,500,000			
		High Channel Frequency (Hz):		2,312,500,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,034	2,312,500,030	24	17	0.000010
		- 20	2,307,500,029	2,312,500,029	19	16	0.000008
		- 10	2,307,500,028	2,312,500,027	18	14	0.000008
		0	2,307,500,030	2,312,500,030	20	17	0.000009
		+ 10	2,307,500,019	2,312,500,035	9	22	0.000010
		+ 20 (Ref)	2,307,500,010	2,312,500,013	0	0	0.000000
		+ 30	2,307,500,022	2,312,500,033	12	20	0.000009
		+ 40	2,307,500,019	2,312,500,036	9	23	0.000010
		+ 50	2,307,500,028	2,312,500,030	18	17	0.000008
Battery Endpoint	3.23	+ 20	2,307,500,023	2,312,500,021	13	8	0.000006

Table 7-143. LTE Band 30 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 7							
		Low Channel Frequency (Hz):		2,510,000,000			
		High Channel Frequency (Hz):		2,560,000,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,510,000,032	2,560,000,030	12	16	0.000006
		- 20	2,510,000,040	2,560,000,027	20	13	0.000008
		- 10	2,510,000,027	2,560,000,026	7	12	0.000005
		0	2,510,000,033	2,560,000,038	13	24	0.000009
		+ 10	2,510,000,028	2,560,000,029	8	15	0.000006
		+ 20 (Ref)	2,510,000,020	2,560,000,014	0	0	0.000000
		+ 30	2,510,000,033	2,560,000,034	13	20	0.000008
		+ 40	2,510,000,037	2,560,000,037	17	23	0.000009
		+ 50	2,510,000,033	2,560,000,030	13	16	0.000006
Battery Endpoint	3.23	+ 20	2,510,000,033	2,560,000,029	13	15	0.000006

Table 7-144. LTE Band 7 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 41							
		Low Channel Frequency (Hz):		2,506,000,000			
		High Channel Frequency (Hz):		2,580,000,000			
		Ref. Voltage (VDC):		3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,506,000,029	2,580,000,037	19	19	0.0000008
		- 20	2,506,000,018	2,580,000,030	8	12	0.0000005
		- 10	2,506,000,027	2,580,000,032	17	14	0.0000007
		0	2,506,000,030	2,580,000,039	20	21	0.0000008
		+ 10	2,506,000,030	2,580,000,032	20	14	0.0000008
		+ 20 (Ref)	2,506,000,010	2,580,000,018	0	0	0.0000000
		+ 30	2,506,000,025	2,580,000,039	15	21	0.0000008
		+ 40	2,506,000,032	2,580,000,027	22	9	0.0000009
Battery Endpoint	3.23	+ 50	2,506,000,020	2,580,000,036	10	18	0.0000007
		+ 20	2,506,000,028	2,580,000,038	18	20	0.0000008

Table 7-145. LTE Band 41 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n30							
		Low Channel Frequency (Hz):		2,307,500,000			
		High Channel Frequency (Hz):		2,312,500,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,158	2,312,500,199	86	96	0.0000042
		- 20	2,307,500,179	2,312,500,202	107	99	0.0000046
		- 10	2,307,500,150	2,312,500,197	78	94	0.0000041
		0	2,307,500,172	2,312,500,191	100	88	0.0000043
		+ 10	2,307,500,152	2,312,500,200	80	97	0.0000042
		+ 20 (Ref)	2,307,500,072	2,312,500,103	0	0	0.0000000
		+ 30	2,307,500,162	2,312,500,185	90	82	0.0000039
		+ 40	2,307,500,151	2,312,500,176	79	73	0.0000034
Battery Endpoint	3.23	+ 50	2,307,500,173	2,312,500,210	101	107	0.0000046
		+ 20	2,307,500,176	2,312,500,201	104	98	0.0000045

Table 7-146. NR Band n30 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n7							
		Low Channel Frequency (Hz):		2,510,000,000			
		High Channel Frequency (Hz):		2,560,000,000			
		Ref. Voltage (VDC):		3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,510,000,160	2,560,000,210	69	107	0.000042
		- 20	2,510,000,166	2,560,000,202	75	99	0.000039
		- 10	2,510,000,164	2,560,000,199	73	96	0.000037
		0	2,510,000,192	2,560,000,194	101	91	0.000040
		+ 10	2,510,000,194	2,560,000,179	103	76	0.000041
		+ 20 (Ref)	2,510,000,091	2,560,000,103	0	0	0.000000
		+ 30	2,510,000,197	2,560,000,199	106	96	0.000042
		+ 40	2,510,000,184	2,560,000,201	93	98	0.000038
Battery Endpoint	3.23	+ 50	2,510,000,174	2,560,000,202	83	99	0.000039
		+ 20	2,510,000,190	2,560,000,205	99	102	0.000040

Table 7-147. NR Band n7 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n41							
			Low Channel Frequency (Hz):	2,546,000,000			
			High Channel Frequency (Hz):	2,640,000,000			
			Ref. Voltage (VDC):	3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,546,000,192	2,640,000,159	95	73	0.0000037
		- 20	2,546,000,203	2,640,000,182	106	96	0.0000042
		- 10	2,546,000,182	2,640,000,175	85	89	0.0000034
		0	2,546,000,182	2,640,000,185	85	99	0.0000037
		+ 10	2,546,000,173	2,640,000,189	76	103	0.0000039
		+ 20 (Ref)	2,546,000,097	2,640,000,086	0	0	0.0000000
		+ 30	2,546,000,187	2,640,000,182	90	96	0.0000036
		+ 40	2,546,000,172	2,640,000,190	75	104	0.0000039
		+ 50	2,546,000,194	2,640,000,176	97	90	0.0000038
Battery Endpoint	3.23	+ 20	2,546,000,176	2,640,000,181	79	95	0.0000036

Table 7-148. NR Band n41PC2 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2435** complies with all the requirements of Part 27 of the FCC rules.

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9.0 APPENDIX A

Antenna gains provided by manufacturer.

Band	Horizontal (dBi)	Vertical (dBi)
B1	1.3	1.1
B2	1.5	1.3
B3	0.5	-0.5
B5	-3.1	-2.6
B7	-3.1	-0.3
B8	-1.7	-2.8
B11	-1.1	-4
B13	-1.5	-1.9
B17	-2.4	-1.9
B20	-3.4	-2.6
B21	-1.4	-3.9
B28	-2.5	-1.9
B30	-2.8	-2.1
B34	-3.1	-0.8
B39	1.5	0.8
B40	-2.6	-2.1
B41	-3.2	-0.4
B42	-1.2	-3.4
B48	-1.2	-3.5
B66	0.4	-0.9
B71	-1.9	-2.1
n41	-3.2	-0.4
n70	-1.6	-1.9
n77	-0.6	-2.6
n78	-2.9	-2.6
n79	0.1	-0.3

Table 9-1. Cellular Antenna Gain (ANT 1); Type IFA

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Band	Horizontal (dBi)	Vertical (dBi)
B1	0.6	0.6
B2	1.4	0.5
B3	2.1	0.7
B5	-3.3	-1.3
B7	-3.1	-2.7
B8	-2.2	-3.2
B11	0.1	-2.3
B13	-2.7	-3
B17	-2.5	-2.3
B20	-2.6	-1.7
B21	0.2	-1.9
B28	-2.2	-1.1
B30	-4.1	-3.8
B34	-1.62	0.31
B39	-1.4	0.6
B40	-5.5	-1.2
B41	-5.6	-2.7
B42	-1.5	-0.1
B48	-1.5	0
B66	2.3	0.8
B71	-3.1	-3.6
n41	-8.8	-2.7
n70	2	0.7
n77	-1.8	-0.1
n78	-1	0.6
n79	-2.9	-0.6

Table 9-2. Cellular Antenna Gain (ANT 3); Type IFA

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Band	Horizontal (dBi)	Vertical (dBi)
B1	-3.5	-1.3
B2	-3.4	-2.7
B3	-3.7	-3.2
B7	-1.5	0.2
B30	-2.6	-0.3
B39	-3.7	-3
B40	-2.6	0.3
B41	-1.9	-0.4
B42	-2.6	-1
B48	-2.5	-1.6
B66	-3.4	-3.1
n41	-1.9	-0.4
n70	-3.4	-3.1
n77	-1.5	-2.6
n78	-1.6	-2.6
n79	0.1	0.3

Table 9-3. Cellular Antenna Gain (ANT 4b); Type IFA

FCC ID: BCGA2435		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Band	Horizontal (dBi)	Vertical (dBi)
B1	-3.3	-2.9
B2	-4.9	-4
B3	-4.5	-5
B7	0	-0.1
B30	-0.6	0.7
B39	-4.7	-4.3
B40	-0.3	1.1
B41	-0.3	-0.8
B66	-4.6	-5.5
n41	-0.3	-0.8
n70	-4.9	-4.9

Table 9-4. Cellular Antenna Gain (ANT 2b); Type IFA

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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