

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 257 of 274

V2.1 2/15/2022

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 258 of 274

V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 259 of 274

V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 260 of 274

V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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	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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device					Page 261 of 274

V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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	-	-	-79.35	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)

FCC ID: BCGA2435		PART 27 MEASUREMENT REPORT						Approved by: Technical Manager	
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device						Page 262 of 274	

V2.1 2/15/2022

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

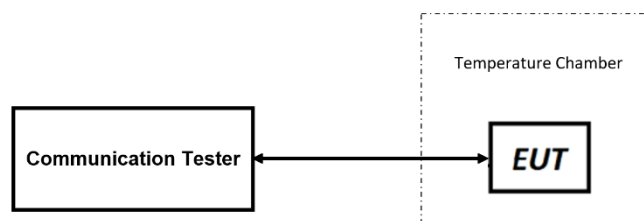



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

FCC ID: BCGA2435		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 263 of 274


V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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	0.0000010
		- 20	2,307,500,029	2,312,500,029	19	16	0.0000008
		- 10	2,307,500,028	2,312,500,027	18	14	0.0000008
		0	2,307,500,030	2,312,500,030	20	17	0.0000009
		+ 10	2,307,500,019	2,312,500,035	9	22	0.0000010
		+ 20 (Ref)	2,307,500,010	2,312,500,013	0	0	0.0000000
		+ 30	2,307,500,022	2,312,500,033	12	20	0.0000009
		+ 40	2,307,500,019	2,312,500,036	9	23	0.0000010
		+ 50	2,307,500,028	2,312,500,030	18	17	0.0000008
Battery Endpoint	3.23	+ 20	2,307,500,023	2,312,500,021	13	8	0.0000006

Table 7-143. LTE Band 30 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 264 of 274


V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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	0.0000006
		- 20	2,510,000,040	2,560,000,027	20	13	0.0000008
		- 10	2,510,000,027	2,560,000,026	7	12	0.0000005
		0	2,510,000,033	2,560,000,038	13	24	0.0000009
		+ 10	2,510,000,028	2,560,000,029	8	15	0.0000006
		+ 20 (Ref)	2,510,000,020	2,560,000,014	0	0	0.0000000
		+ 30	2,510,000,033	2,560,000,034	13	20	0.0000008
		+ 40	2,510,000,037	2,560,000,037	17	23	0.0000009
		+ 50	2,510,000,033	2,560,000,030	13	16	0.0000006
Battery Endpoint	3.23	+ 20	2,510,000,033	2,560,000,029	13	15	0.0000006

Table 7-144. LTE Band 7 Frequency Stability Data

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 265 of 274


V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 266 of 274

V2.1 2/15/2022

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
		+ 50	2,307,500,173	2,312,500,210	101	107	0.0000046
Battery Endpoint	3.23	+ 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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 267 of 274


V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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	0.0000042
		- 20	2,510,000,166	2,560,000,202	75	99	0.0000039
		- 10	2,510,000,164	2,560,000,199	73	96	0.0000037
		0	2,510,000,192	2,560,000,194	101	91	0.0000040
		+ 10	2,510,000,194	2,560,000,179	103	76	0.0000041
		+ 20 (Ref)	2,510,000,091	2,560,000,103	0	0	0.0000000
		+ 30	2,510,000,197	2,560,000,199	106	96	0.0000042
		+ 40	2,510,000,184	2,560,000,201	93	98	0.0000038
Battery Endpoint	3.23	+ 50	2,510,000,174	2,560,000,202	83	99	0.0000039
		+ 20	2,510,000,190	2,560,000,205	99	102	0.0000040

Table 7-147. NR Band n7 Frequency Stability Data


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 268 of 274

V2.1 2/15/2022

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 269 of 274

V2.1 2/15/2022

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.

FCC ID: BCGA2435		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 270 of 274

V2.1 2/15/2022


Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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


FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 271 of 274

V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 272 of 274

V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 273 of 274

V2.1 2/15/2022

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Washington DC LLC. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

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
Test Report S/N: 1C2205090025-04-R2.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 274 of 274

V2.1 2/15/2022