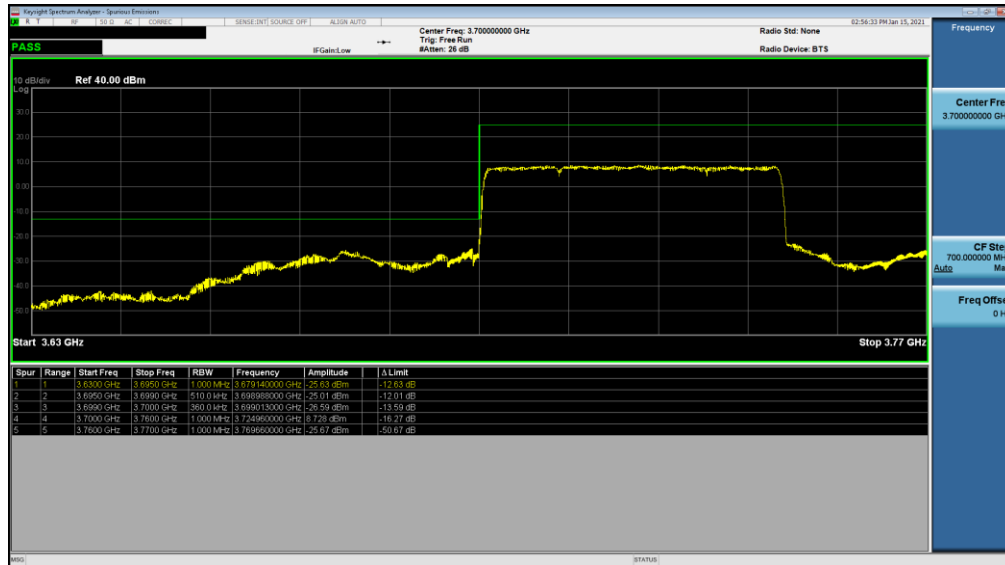




Plot 7-216. Lower ACP Plot (NR Band n77 - 50MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

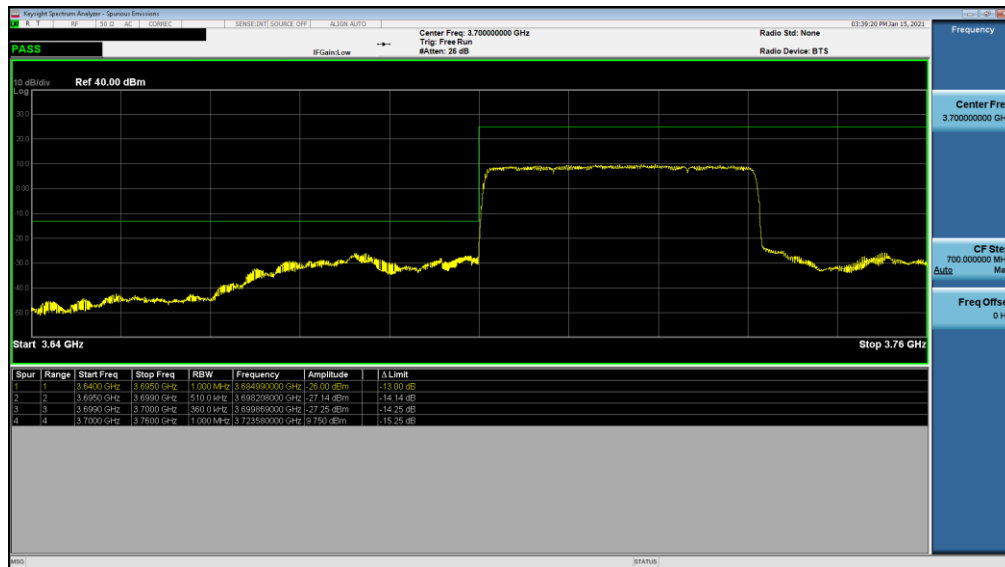


Plot 7-217. Upper ACP Plot (NR Band n77 - 50MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

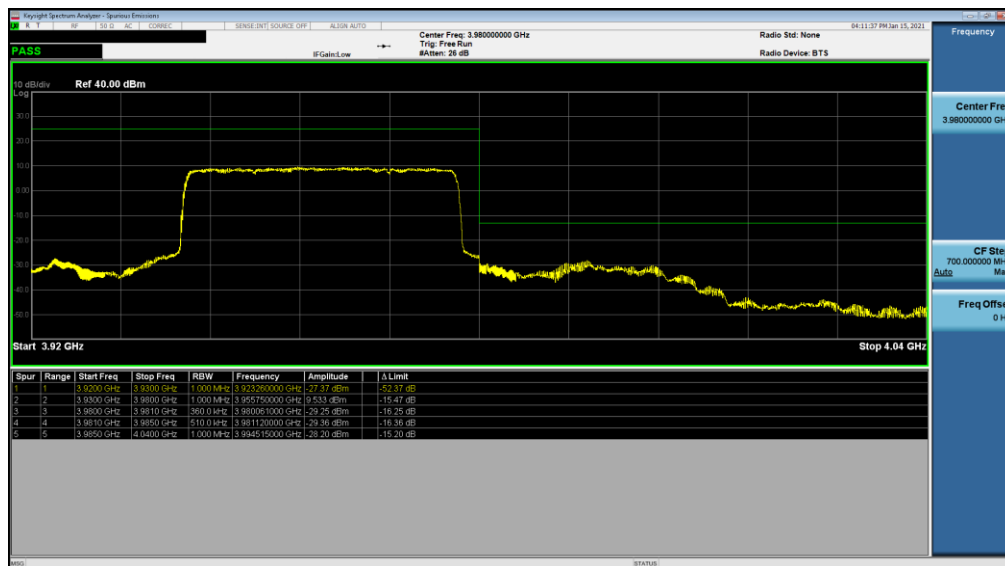
FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-218. Lower ACP Plot (NR Band n77 - 40MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

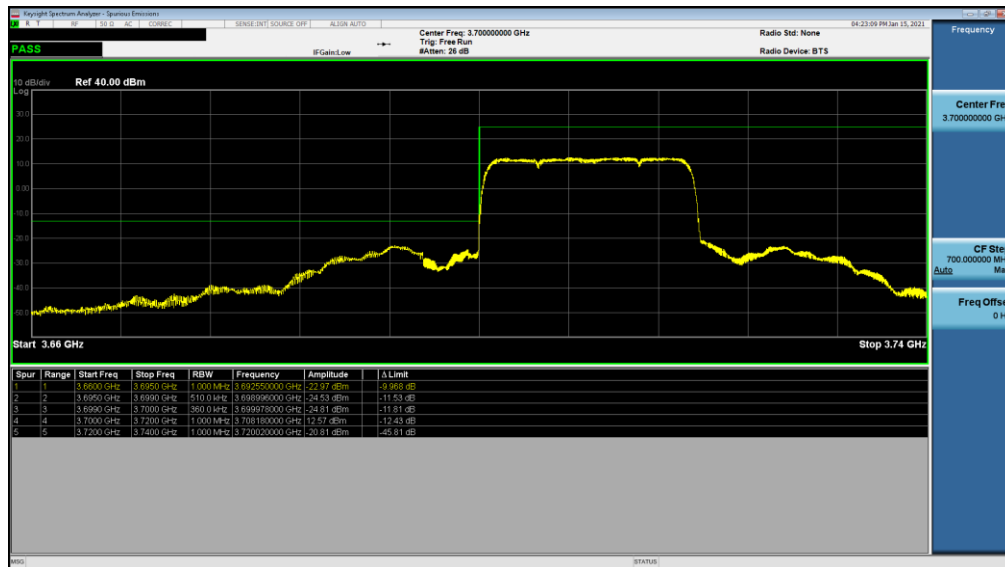


Plot 7-219. Upper ACP Plot (NR Band n77 - 40MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 134 of 221

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Plot 7-220. Lower ACP Plot (NR Band n77 - 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)



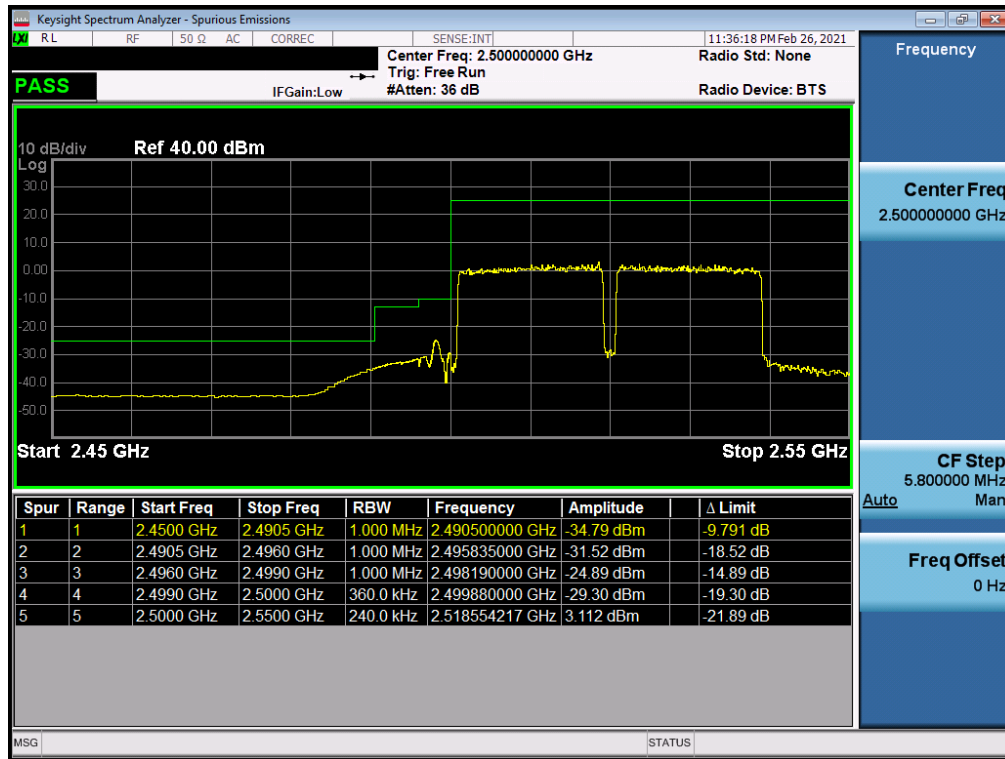
Plot 7-221. Upper ACP Plot (NR Band n77 - 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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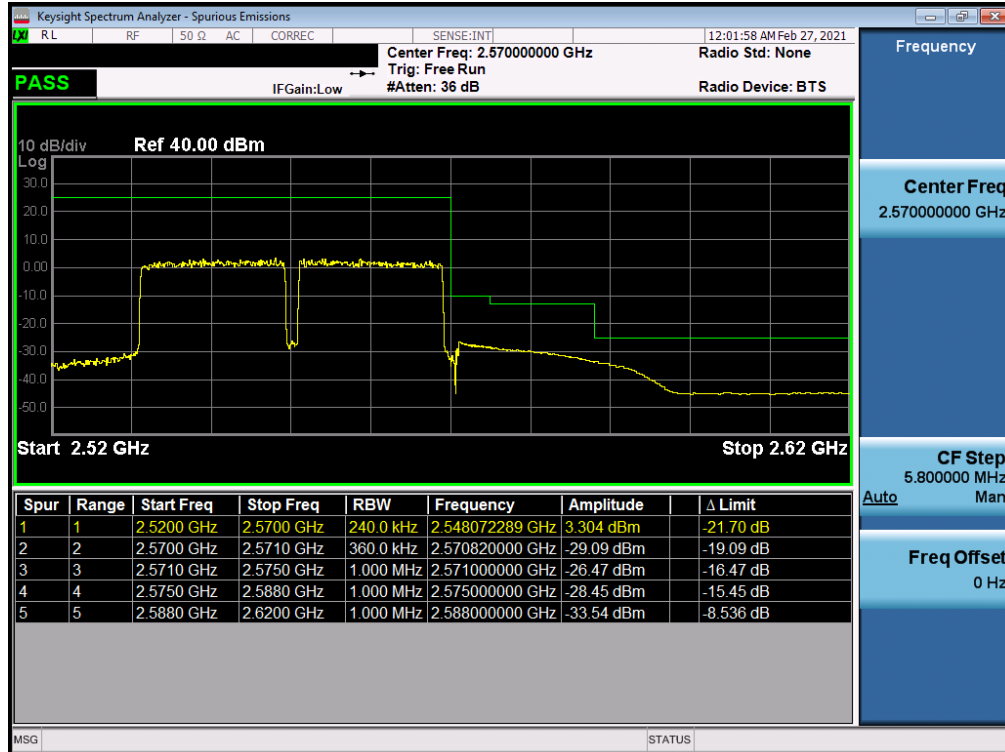
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ULCA - LTE Band 7



Plot 7-222. Lower ACP Plot (ULCA LTE Band 7 – (20 + 20)MHz QPSK – Full RB Configuration)



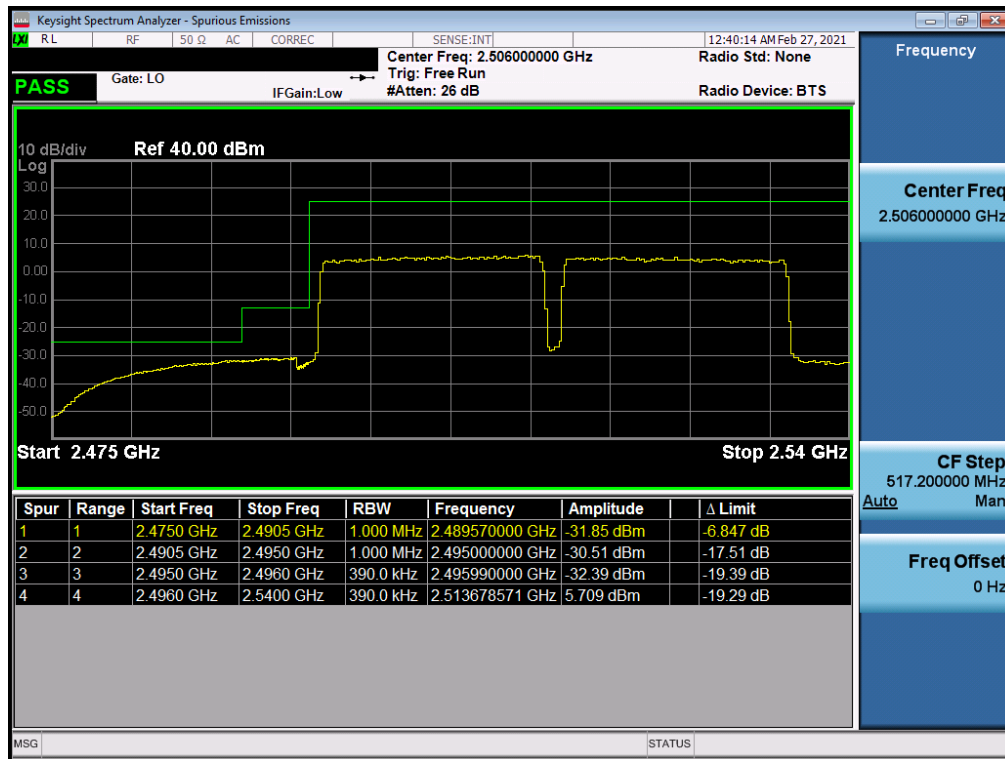
Plot 7-223. Upper ACP Plot (ULCA LTE Band 7 - (20 + 20)MHz QPSK – Full RB Configuration)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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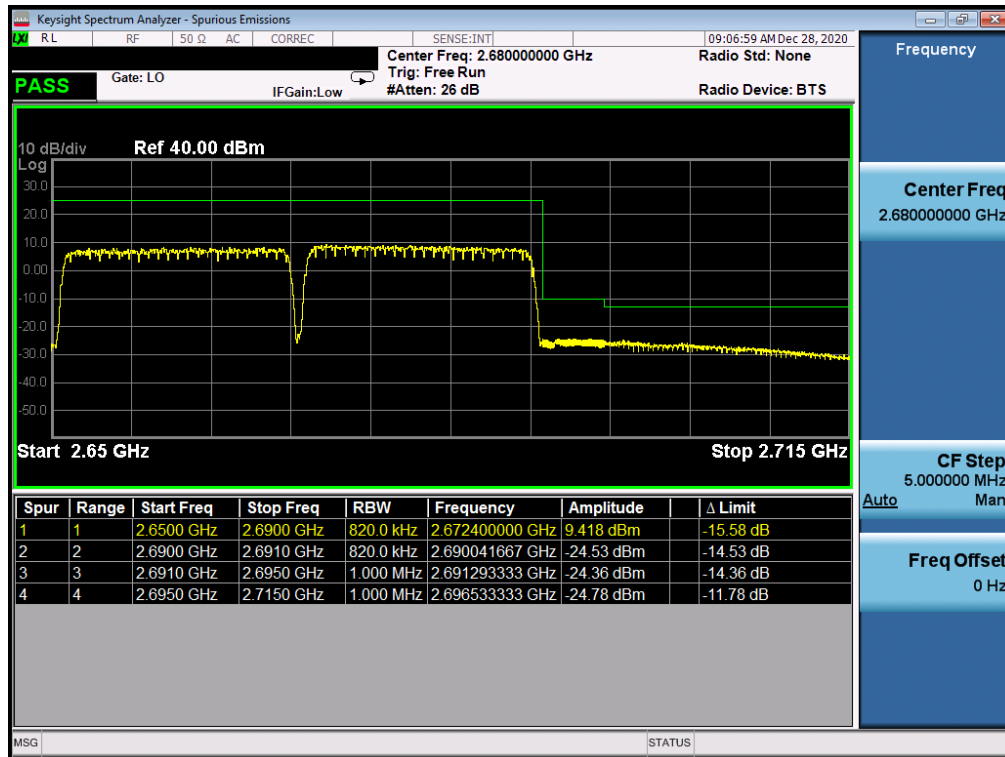
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ULCA - LTE Band 41



Plot 7-224. Lower ACP Plot (ULCA LTE Band 41 - (20 + 20)MHz QPSK – Full RB Configuration)



Plot 7-225. Upper ACP Plot (ULCA LTE Band 41 - (20 + 20)MHz QPSK – Full RB Configuration)

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7.5 Additional Maximum Power Reduction (A-MPR)

§2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB KDB 971168 D01 v03r01

Test Setup

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

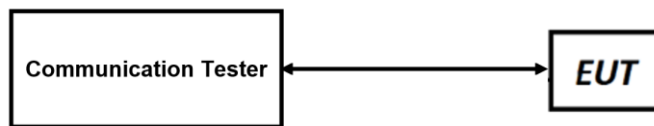


Figure 7-4. Conducted Power Measurement Setup

Test Notes

None.

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Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	RB Size	RB Offset	A-MPR [dB]	Modulation	MPR [dB]	Measured Power [dBm]	Lowest Typical Power [dBm]	Delta [dB]
1	01	312	530	5	39675	2498.5	1	0	3	QPSK	0	25.29	23.7	1.59
2										16-QAM	1	24.09	22.7	1.39
										64-QAM	2	23.34	21.7	1.64
										256-QAM	4	20.42	19.7	0.72
				QPSK	0	27.49	26.7	0.79						
3				16-QAM	1	26.63	25.7	0.93						
				64-QAM	2	24.91	24.7	0.21						
				256-QAM	4	23.51	22.7	0.81						
				QPSK	0	23.25	21.7	1.55						
4				16-QAM	1	22.46	20.7	1.76						
				64-QAM	2	21.60	19.7	1.90						
				256-QAM	4	18.38	17.7	0.68						
				QPSK	0	25.26	24.7	0.56						
5				16-QAM	1	24.31	23.7	0.61						
				64-QAM	2	23.28	22.7	0.58						
				256-QAM	4	21.21	20.7	0.51						
				QPSK	0	24.33	23.7	0.63						
6				16-QAM	1	23.33	22.7	0.63						
				64-QAM	2	22.36	21.7	0.66						
				256-QAM	4	20.34	19.7	0.64						
				QPSK	0	25.83	25.7	0.13						
7				16-QAM	1	24.85	24.7	0.15						
				64-QAM	2	23.86	23.7	0.16						
				256-QAM	4	21.81	21.7	0.11						
				QPSK	0	27.68	26.7	0.98						
8				16-QAM	1	26.66	25.7	0.96						
				64-QAM	2	24.82	24.7	0.12						
				256-QAM	4	23.04	22.7	0.34						
				QPSK	0	23.23	21.7	1.53						
9				16-QAM	1	22.64	20.7	1.94						
				64-QAM	2	21.51	19.7	1.81						
				256-QAM	4	18.66	17.7	0.96						
				QPSK	0	25.17	24.7	0.47						
10				16-QAM	1	24.13	23.7	0.43						
				64-QAM	2	23.21	22.7	0.51						
				256-QAM	4	21.24	20.7	0.54						
				QPSK	0	23.28	22.7	0.58						
11				16-QAM	1	22.29	21.7	0.59						
				64-QAM	2	21.32	20.7	0.62						
				256-QAM	4	19.32	18.7	0.62						
				QPSK	0	24.32	23.7	0.62						
12				16-QAM	1	23.30	22.7	0.60						
				64-QAM	2	22.31	21.7	0.61						
				256-QAM	4	20.29	19.7	0.59						
				QPSK	0	27.69	26.7	0.99						
13				16-QAM	1	27.43	25.7	1.73						
				64-QAM	2	25.89	24.7	1.19						
				256-QAM	4	23.81	22.7	1.11						
				QPSK	0	23.07	21.7	1.37						
14				16-QAM	1	22.36	20.7	1.66						
				64-QAM	2	21.69	19.7	1.99						
				256-QAM	4	18.58	17.7	0.88						
				QPSK	0	25.14	24.7	0.44						
15				16-QAM	1	24.25	23.7	0.55						
				64-QAM	2	23.19	22.7	0.49						
				256-QAM	4	21.21	20.7	0.51						
				QPSK	0	23.27	22.7	0.57						
16				16-QAM	1	22.28	21.7	0.58						
				64-QAM	2	21.27	20.7	0.57						
				256-QAM	4	19.31	18.7	0.61						
				QPSK	0	24.29	23.7	0.59						
17				16-QAM	1	23.33	22.7	0.63						
				64-QAM	2	22.30	21.7	0.60						
				256-QAM	4	20.29	19.7	0.59						
				QPSK	0	27.70	26.7	1.00						
18				16-QAM	1	27.48	25.7	1.78						
				64-QAM	2	26.45	24.7	1.75						
				256-QAM	4	23.61	22.7	0.91						
	QPSK	0	25.33	23.7	1.63									
19	16-QAM	1	24.56	22.7	1.86									
	64-QAM	2	23.81	21.7	2.11									
	256-QAM	4	20.65	19.7	0.95									
	QPSK	0	27.69	26.7	0.99									
20	16-QAM	1	27.05	25.7	1.35									
	64-QAM	2	24.93	24.7	0.23									
	256-QAM	4	23.51	22.7	0.81									

Table 7-2. A-MPR Conducted Power Measurements

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6 Radiated Power (EIRP) §27.50(a)(3), §27.50(h)(2)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015 – Section 5.2.5.5

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in or dBi (EIRP)

Test Setup

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

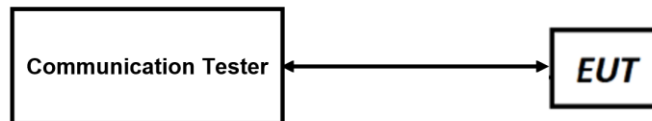


Figure 7-5. EIRP Measurement Setup

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
5. Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
6. For ULCA, conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
7. For ULCA, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz.

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7.6.1 Antenna 3 – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	2310.0	-1.40	1 / 25	23.65	22.25	0.168	23.98	-1.73
	16-QAM	2310.0	-1.40	1 / 49	23.70	22.30	0.170	23.98	-1.68
	64-QAM	2310.0	-1.40	1 / 1	23.48	22.08	0.161	23.98	-1.90
	256-QAM	2310.0	-1.40	1 / 49	22.26	20.86	0.122	23.98	-3.12
5 MHz	QPSK	2307.5	-1.40	1 / 1	23.70	22.30	0.170	23.98	-1.68
		2312.5	-1.40	1 / 24	23.45	22.05	0.160	23.98	-1.93
	16-QAM	2307.5	-1.40	1 / 1	23.69	22.29	0.169	23.98	-1.69
	64-QAM	2307.5	-1.40	1 / 1	23.69	22.29	0.169	23.98	-1.69
	256-QAM	2312.5	-1.40	1 / 24	21.97	20.57	0.114	23.98	-3.41

Table 7-3. EIRP Data (LTE Band 30)

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2510.0	-4.50	1 / 1	25.49	20.99	0.126	33.01	-12.02
		2535.0	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
		2560.0	-4.50	1 / 99	25.68	21.18	0.131	33.01	-11.83
	16-QAM	2535.0	-4.50	1 / 1	25.32	20.82	0.121	33.01	-12.19
	64-QAM	2535.0	-4.50	1 / 1	24.63	20.13	0.103	33.01	-12.88
	256-QAM	2510.0	-4.50	100 / 0	21.36	16.86	0.049	33.01	-16.15
15 MHz	QPSK	2507.5	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
		2535.0	-4.50	1 / 1	25.54	21.04	0.127	33.01	-11.97
		2562.5	-4.50	1 / 1	25.45	20.95	0.124	33.01	-12.06
	16-QAM	2535.0	-4.50	1 / 1	25.06	20.56	0.114	33.01	-12.45
	64-QAM	2535.0	-4.50	1 / 1	24.34	19.84	0.096	33.01	-13.17
	256-QAM	2507.5	-4.50	75 / 0	21.39	16.89	0.049	33.01	-16.12
10 MHz	QPSK	2505.0	-4.50	1 / 25	25.63	21.13	0.130	33.01	-11.88
		2535.0	-4.50	1 / 25	25.70	21.20	0.132	33.01	-11.81
		2565.0	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
	16-QAM	2535.0	-4.50	1 / 1	25.23	20.73	0.118	33.01	-12.28
	64-QAM	2535.0	-4.50	1 / 25	24.48	19.98	0.100	33.01	-13.03
	256-QAM	2565.0	-4.50	1 / 49	21.56	17.06	0.051	33.01	-15.95
5 MHz	QPSK	2502.5	-4.50	1 / 24	25.70	21.20	0.132	33.01	-11.81
		2535.0	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
		2567.5	-4.50	1 / 12	25.51	21.01	0.126	33.01	-12.00
	16-QAM	2535.0	-4.50	1 / 24	25.33	20.83	0.121	33.01	-12.18
	64-QAM	2535.0	-4.50	1 / 1	24.57	20.07	0.102	33.01	-12.94
	256-QAM	2567.5	-4.50	25 / 0	21.38	16.88	0.049	33.01	-16.13

Table 7-4. EIRP Data (LTE Band 7)

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LTE Band 41 (PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-4.50	1 / 99	27.63	23.13	0.206	33.01	-9.88
		2593.0	-4.50	1 / 99	27.70	23.20	0.209	33.01	-9.81
		2680.0	-4.50	1 / 99	27.61	23.11	0.205	33.01	-9.90
	16-QAM	2593.0	-4.50	1 / 50	27.27	22.77	0.189	33.01	-10.24
	64-QAM	2680.0	-4.50	1 / 50	26.08	21.58	0.144	33.01	-11.43
	256-QAM	2506.0	-4.50	1 / 99	23.35	18.85	0.077	33.01	-14.16
15 MHz	QPSK	2503.5	-4.50	1 / 74	27.70	23.20	0.209	33.01	-9.81
		2593.0	-4.50	1 / 74	27.70	23.20	0.209	33.01	-9.81
		2682.5	-4.50	1 / 1	27.70	23.20	0.209	33.01	-9.81
	16-QAM	2682.5	-4.50	1 / 1	27.23	22.73	0.187	33.01	-10.28
	64-QAM	2682.5	-4.50	1 / 1	26.33	21.83	0.152	33.01	-11.18
	256-QAM	2503.5	-4.50	1 / 74	23.44	18.94	0.078	33.01	-14.07
10 MHz	QPSK	2501.0	-4.50	1 / 49	27.70	23.20	0.209	33.01	-9.81
		2593.0	-4.50	1 / 1	27.59	23.09	0.204	33.01	-9.92
		2685.0	-4.50	1 / 49	27.45	22.95	0.197	33.01	-10.06
	16-QAM	2501.0	-4.50	1 / 49	27.13	22.63	0.183	33.01	-10.38
	64-QAM	2685.0	-4.50	1 / 25	26.04	21.54	0.143	33.01	-11.47
	256-QAM	2501.0	-4.50	50 / 0	23.18	18.68	0.074	33.01	-14.33
5 MHz	QPSK	2498.5	-4.50	1 / 24	27.70	23.20	0.209	33.01	-9.81
		2593.0	-4.50	1 / 24	26.56	22.06	0.161	33.01	-10.95
		2687.5	-4.50	1 / 12	26.40	21.90	0.155	33.01	-11.11
	16-QAM	2498.5	-4.50	1 / 1	27.37	22.87	0.194	33.01	-10.14
	64-QAM	2593.0	-4.50	1 / 24	26.57	22.07	0.161	33.01	-10.94
	256-QAM	2498.5	-4.50	1 / 12	23.82	19.32	0.086	33.01	-13.69

Table 7-5. EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 143 of 221

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LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-4.50	1 / 50	25.70	21.20	0.132	33.01	-11.81
		2593.0	-4.50	1 / 50	25.70	21.20	0.132	33.01	-11.81
		2680.0	-4.50	1 / 99	25.63	21.13	0.130	33.01	-11.88
	16-QAM	2680.0	-4.50	1 / 99	25.00	20.50	0.112	33.01	-12.51
	64-QAM	2593.0	-4.50	1 / 50	23.59	19.09	0.081	33.01	-13.92
	256-QAM	2506.0	-4.50	100 / 0	21.38	16.88	0.049	33.01	-16.13
15 MHz	QPSK	2503.5	-4.50	1 / 37	25.59	21.09	0.129	33.01	-11.92
		2593.0	-4.50	1 / 37	25.55	21.05	0.127	33.01	-11.96
		2682.5	-4.50	1 / 74	25.58	21.08	0.128	33.01	-11.93
	16-QAM	2682.5	-4.50	1 / 74	24.61	20.11	0.103	33.01	-12.90
	64-QAM	2503.5	-4.50	1 / 37	23.60	19.10	0.081	33.01	-13.91
	256-QAM	2503.5	-4.50	75 / 0	21.42	16.92	0.049	33.01	-16.09
10 MHz	QPSK	2501.0	-4.50	1 / 1	25.69	21.19	0.132	33.01	-11.82
		2593.0	-4.50	1 / 25	25.58	21.08	0.128	33.01	-11.93
		2685.0	-4.50	1 / 49	25.49	20.99	0.126	33.01	-12.02
	16-QAM	2501.0	-4.50	1 / 49	25.04	20.54	0.113	33.01	-12.47
	64-QAM	2501.0	-4.50	50 / 0	23.47	18.97	0.079	33.01	-14.04
	256-QAM	2501.0	-4.50	50 / 0	21.48	16.98	0.050	33.01	-16.03
5 MHz	QPSK	2498.5	-4.50	1 / 12	25.70	21.20	0.132	33.01	-11.81
		2593.0	-4.50	1 / 12	24.29	19.79	0.095	33.01	-13.22
		2687.5	-4.50	1 / 12	24.37	19.87	0.097	33.01	-13.14
	16-QAM	2498.5	-4.50	1 / 12	24.95	20.45	0.111	33.01	-12.56
	64-QAM	2687.5	-4.50	25 / 0	24.41	19.91	0.098	33.01	-13.10
	256-QAM	2593.0	-4.50	1 / 24	21.73	17.23	0.053	33.01	-15.78

Table 7-6. EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 144 of 221

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ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset					
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.70	-4.50	21.20	0.132	33.01
				21100	2535.0	1	99		21298	2554.8	1	0	25.70	-4.50	21.20	0.132	33.01
				21350	2560.0	1	0		21152	2540.2	1	99	25.68	-4.50	21.18	0.131	33.01
				20850	2510	100	0		21048	2529.8	100	0	23.30	-4.50	18.80	0.076	33.01
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	22.29	-4.50	17.79	0.060	33.01
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	21.85	-4.50	17.35	0.054	33.01
			256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	20.26	-4.50	15.76	0.038	33.01

Table 7-226. Conducted Power Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset					
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	28.00	-4.50	23.50	0.224	33.01
				40620	2593.0	1	99		40818	2612.8	1	0	27.94	-4.50	23.44	0.221	33.01
				41490	2680.0	1	0		41292	2660.2	1	99	27.94	-4.50	23.44	0.221	33.01
				39750	2506	100	0		39948	2525.8	100	0	26.45	-4.50	21.95	0.157	33.01
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	25.43	-4.50	20.93	0.124	33.01
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	24.45	-4.50	19.95	0.099	33.01
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	23.36	-4.50	18.86	0.077	33.01

Table 7-227. Conducted Power Data (ULCA LTE Band 41(PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset					
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.68	-4.50	21.18	0.131	33.01
				40620	2593.0	1	99		40818	2612.8	1	0	25.64	-4.50	21.14	0.130	33.01
				41490	2680.0	1	0		41292	2660.2	1	99	25.70	-4.50	21.20	0.132	33.01
				41490	2680	100	0		41292	2660.2	100	0	23.65	-4.50	19.15	0.082	33.01
			16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	22.57	-4.50	18.07	0.064	33.01
			64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	22.68	-4.50	18.18	0.066	33.01
			256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	20.99	-4.50	16.49	0.045	33.01

Table 7-228. Conducted Power Data (ULCA LTE Band 41(PC3))

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 145 of 221

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NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	2546.0	-0.80	1 / 135	23.47	22.67	0.185	33.01	-10.34
		2593.0	-0.80	1 / 135	23.36	22.56	0.180	33.01	-10.45
		2640.0	-0.80	1 / 258	23.48	22.68	0.185	33.01	-10.33
	QPSK	2546.0	-0.80	1 / 258	23.50	22.70	0.186	33.01	-10.31
		2593.0	-0.80	1 / 135	23.49	22.69	0.186	33.01	-10.32
		2640.0	-0.80	1 / 1	23.47	22.67	0.185	33.01	-10.34
	16-QAM	2640.0	-0.80	1 / 1	22.67	21.87	0.154	33.01	-11.15
90 MHz	π/2 BPSK	2640.0	-0.80	1 / 258	21.52	20.72	0.118	33.01	-12.29
		2593.0	-0.80	1 / 258	19.46	18.66	0.073	33.01	-14.35
		2541.0	-0.80	1 / 238	23.35	22.55	0.180	33.01	-10.46
	QPSK	2593.0	-0.80	1 / 238	23.20	22.40	0.174	33.01	-10.61
		2645.0	-0.80	1 / 120	23.47	22.67	0.185	33.01	-10.34
		2541.0	-0.80	1 / 238	23.22	22.42	0.175	33.01	-10.59
	16-QAM	2593.0	-0.80	1 / 238	23.50	22.70	0.186	33.01	-10.31
80 MHz	π/2 BPSK	2645.0	-0.80	1 / 1	23.48	22.68	0.185	33.01	-10.33
		2593.0	-0.80	1 / 238	22.43	21.63	0.146	33.01	-11.38
		2645.0	-0.80	1 / 238	21.12	20.32	0.108	33.01	-12.69
	QPSK	2645.0	-0.80	1 / 238	19.13	18.33	0.068	33.01	-14.68
		2536.0	-0.80	1 / 108	23.50	22.70	0.186	33.01	-10.31
		2593.0	-0.80	1 / 214	23.43	22.63	0.183	33.01	-10.38
	16-QAM	2650.0	-0.80	1 / 1	23.45	22.65	0.184	33.01	-10.36
60 MHz	π/2 BPSK	2536.0	-0.80	1 / 214	23.46	22.66	0.185	33.01	-10.35
		2593.0	-0.80	1 / 214	23.40	22.60	0.182	33.01	-10.41
		2650.0	-0.80	1 / 1	23.43	22.63	0.183	33.01	-10.38
	QPSK	2593.0	-0.80	1 / 214	22.66	21.86	0.154	33.01	-11.15
		2593.0	-0.80	1 / 108	21.36	20.56	0.114	33.01	-12.45
		2536.0	-0.80	1 / 214	19.22	18.42	0.069	33.01	-14.59
	16-QAM	2526.0	-0.80	1 / 81	23.32	22.52	0.179	33.01	-10.49
50 MHz	π/2 BPSK	2593.0	-0.80	1 / 1	23.45	22.65	0.184	33.01	-10.36
		2660.0	-0.80	1 / 81	23.37	22.57	0.181	33.01	-10.44
		2526.0	-0.80	1 / 81	23.50	22.70	0.186	33.01	-10.31
	QPSK	2593.0	-0.80	1 / 81	23.42	22.62	0.183	33.01	-10.39
		2660.0	-0.80	1 / 162	23.32	22.52	0.179	33.01	-10.49
		2593.0	-0.80	1 / 1	22.59	21.79	0.151	33.01	-11.22
	16-QAM	2593.0	-0.80	1 / 81	21.37	20.57	0.114	33.01	-12.44
40 MHz	π/2 BPSK	2593.0	-0.80	1 / 1	19.50	18.70	0.074	33.01	-14.31
		2521.0	-0.80	1 / 64	23.48	22.68	0.185	33.01	-10.33
		2593.0	-0.80	1 / 1	23.46	22.66	0.185	33.01	-10.35
	QPSK	2665.0	-0.80	1 / 126	23.42	22.62	0.183	33.01	-10.39
		2521.0	-0.80	1 / 64	23.39	22.59	0.182	33.01	-10.42
		2593.0	-0.80	1 / 1	23.49	22.69	0.186	33.01	-10.32
	16-QAM	2665.0	-0.80	1 / 126	23.50	22.70	0.186	33.01	-10.31
20 MHz	π/2 BPSK	2593.0	-0.80	1 / 1	22.72	21.92	0.156	33.01	-11.09
		2521.0	-0.80	1 / 64	21.42	20.62	0.115	33.01	-12.39
		2665.0	-0.80	1 / 1	19.32	18.52	0.071	33.01	-14.49
	QPSK	2516.0	-0.80	1 / 98	23.50	22.70	0.186	33.01	-10.31
		2593.0	-0.80	1 / 98	23.48	22.68	0.186	33.01	-10.33
		2670.0	-0.80	1 / 50	23.18	22.38	0.173	33.01	-10.63
	16-QAM	2516.0	-0.80	1 / 98	23.48	22.68	0.185	33.01	-10.33
10 MHz	π/2 BPSK	2593.0	-0.80	1 / 50	23.50	22.70	0.186	33.01	-10.31
		2670.0	-0.80	1 / 98	23.36	22.56	0.180	33.01	-10.45
		2670.0	-0.80	1 / 1	22.68	21.88	0.154	33.01	-11.13
	QPSK	2670.0	-0.80	1 / 1	21.44	20.64	0.116	33.01	-12.37
		2670.0	-0.80	1 / 1	19.24	18.44	0.070	33.01	-14.57
		2506.0	-0.80	1 / 25	23.20	22.40	0.174	33.01	-10.61
	16-QAM	2593.0	-0.80	1 / 25	23.03	22.23	0.167	33.01	-10.78
5 MHz	π/2 BPSK	2680.0	-0.80	1 / 48	23.13	22.33	0.171	33.01	-10.68
		2506.0	-0.80	1 / 48	23.14	22.34	0.171	33.01	-10.67
		2593.0	-0.80	1 / 48	22.98	22.18	0.165	33.01	-10.83
	QPSK	2680.0	-0.80	1 / 48	23.08	22.28	0.169	33.01	-10.73
		2506.0	-0.80	1 / 48	22.57	21.77	0.150	33.01	-11.24
		2506.0	-0.80	1 / 48	21.50	20.70	0.117	33.01	-12.31
	16-QAM	2506.0	-0.80	1 / 48	18.96	18.16	0.065	33.01	-14.85

Table 7-7. EIRP Data (NR Band n41(PC2))

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 146 of 221

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NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.0	-0.80	1 / 258	22.05	21.25	0.133	33.01	-11.76
		2593.0	-0.80	1 / 135	21.91	21.11	0.129	33.01	-11.90
		2640.0	-0.80	1 / 1	22.05	21.25	0.133	33.01	-11.76
	QPSK	2546.0	-0.80	1 / 258	21.86	21.06	0.128	33.01	-11.95
		2593.0	-0.80	1 / 258	22.10	21.30	0.135	33.01	-11.71
		2640.0	-0.80	1 / 258	22.20	21.40	0.138	33.01	-11.61
	16-QAM	2546.0	-0.80	1 / 258	21.21	20.41	0.110	33.01	-12.60
	64-QAM	2546.0	-0.80	1 / 135	19.93	19.13	0.082	33.01	-13.88
	256-QAM	2640.0	-0.80	1 / 135	17.91	17.11	0.051	33.01	-15.90
90 MHz	$\pi/2$ BPSK	2541.0	-0.80	1 / 238	22.20	21.40	0.138	33.01	-11.61
		2593.0	-0.80	1 / 238	22.05	21.25	0.133	33.01	-11.76
		2645.0	-0.80	1 / 238	22.14	21.34	0.136	33.01	-11.67
	QPSK	2541.0	-0.80	1 / 238	21.95	21.15	0.130	33.01	-11.86
		2593.0	-0.80	1 / 120	22.06	21.26	0.134	33.01	-11.75
		2645.0	-0.80	1 / 120	22.00	21.20	0.132	33.01	-11.81
	16-QAM	2645.0	-0.80	1 / 120	21.21	20.41	0.110	33.01	-12.60
	64-QAM	2645.0	-0.80	1 / 1	20.03	19.23	0.084	33.01	-13.78
	256-QAM	2645.0	-0.80	1 / 238	17.89	17.09	0.051	33.01	-15.92
80 MHz	$\pi/2$ BPSK	2536.0	-0.80	1 / 214	22.13	21.33	0.136	33.01	-11.68
		2593.0	-0.80	1 / 108	21.93	21.13	0.130	33.01	-11.88
		2650.0	-0.80	1 / 108	22.16	21.36	0.137	33.01	-11.65
	QPSK	2536.0	-0.80	1 / 214	22.20	21.40	0.138	33.01	-11.61
		2593.0	-0.80	1 / 108	21.91	21.11	0.129	33.01	-11.90
		2650.0	-0.80	1 / 108	22.14	21.34	0.136	33.01	-11.67
	16-QAM	2536.0	-0.80	1 / 214	21.04	20.24	0.106	33.01	-12.77
	64-QAM	2650.0	-0.80	1 / 108	20.05	19.25	0.084	33.01	-13.76
	256-QAM	2593.0	-0.80	1 / 214	17.88	17.08	0.051	33.01	-15.93
60 MHz	$\pi/2$ BPSK	2526.0	-0.80	1 / 81	22.18	21.38	0.137	33.01	-11.63
		2593.0	-0.80	1 / 1	22.03	21.23	0.133	33.01	-11.78
		2660.0	-0.80	1 / 81	22.12	21.32	0.136	33.01	-11.69
	QPSK	2526.0	-0.80	1 / 162	22.20	21.40	0.138	33.01	-11.61
		2593.0	-0.80	1 / 81	21.98	21.18	0.131	33.01	-11.84
		2660.0	-0.80	1 / 1	22.07	21.27	0.134	33.01	-11.74
	16-QAM	2660.0	-0.80	1 / 1	20.96	20.16	0.104	33.01	-12.85
	64-QAM	2660.0	-0.80	1 / 1	19.78	18.98	0.079	33.01	-14.03
	256-QAM	2593.0	-0.80	1 / 1	17.90	17.10	0.051	33.01	-15.91
50 MHz	$\pi/2$ BPSK	2521.0	-0.80	1 / 64	22.20	21.40	0.138	33.01	-11.61
		2593.0	-0.80	1 / 1	21.82	21.02	0.126	33.01	-11.99
		2665.0	-0.80	1 / 1	22.08	21.28	0.134	33.01	-11.73
	QPSK	2521.0	-0.80	1 / 126	22.12	21.32	0.136	33.01	-11.69
		2593.0	-0.80	1 / 1	22.17	21.37	0.137	33.01	-11.64
		2665.0	-0.80	1 / 126	21.85	21.05	0.127	33.01	-11.96
	16-QAM	2665.0	-0.80	1 / 1	20.97	20.17	0.104	33.01	-12.84
	64-QAM	2521.0	-0.80	1 / 64	20.05	19.25	0.084	33.01	-13.76
	256-QAM	2665.0	-0.80	1 / 126	18.21	17.41	0.055	33.01	-15.60
40 MHz	$\pi/2$ BPSK	2516.0	-0.80	1 / 98	21.98	21.18	0.131	33.01	-11.83
		2593.0	-0.80	1 / 1	22.20	21.40	0.138	33.01	-11.61
		2670.0	-0.80	1 / 98	21.95	21.15	0.130	33.01	-11.86
	QPSK	2516.0	-0.80	1 / 98	22.00	21.20	0.132	33.01	-11.81
		2593.0	-0.80	1 / 1	22.05	21.25	0.133	33.01	-11.76
		2670.0	-0.80	1 / 1	22.04	21.24	0.133	33.01	-11.77
	16-QAM	2670.0	-0.80	1 / 98	21.27	20.47	0.111	33.01	-12.54
	64-QAM	2593.0	-0.80	1 / 98	20.05	19.25	0.084	33.01	-13.76
	256-QAM	2670.0	-0.80	1 / 50	17.72	16.92	0.049	33.01	-16.09
20 MHz	$\pi/2$ BPSK	2506.0	-0.80	1 / 48	21.74	20.94	0.124	33.01	-12.07
		2593.0	-0.80	1 / 48	21.90	21.10	0.129	33.01	-11.91
		2680.0	-0.80	1 / 48	21.72	20.92	0.124	33.01	-12.09
	QPSK	2506.0	-0.80	1 / 48	21.80	21.00	0.126	33.01	-12.01
		2593.0	-0.80	1 / 48	21.79	20.99	0.126	33.01	-12.02
		2680.0	-0.80	1 / 48	21.77	20.97	0.125	33.01	-12.04
	16-QAM	2593.0	-0.80	1 / 25	20.82	20.02	0.100	33.01	-12.99
	64-QAM	2506.0	-0.80	1 / 25	19.59	18.79	0.076	33.01	-14.22
	256-QAM	2506.0	-0.80	50 / 0	17.56	16.76	0.047	33.01	-16.25

Table 7-8. EIRP Data (NR Band n41(PC3))

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 147 of 221

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NR Band n77(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	3750.0	-0.50	1 / 1	26.38	25.88	0.387	33.01	-7.13
		3840.0	-0.50	1 / 258	26.69	26.19	0.416	33.01	-6.82
		3930.0	-0.50	1 / 135	27.00	26.50	0.447	33.01	-6.51
	QPSK	3750.0	-0.50	1 / 1	26.50	26.00	0.398	33.01	-7.01
		3840.0	-0.50	1 / 135	26.63	26.13	0.411	33.01	-6.88
		3930.0	-0.50	1 / 135	26.98	26.48	0.444	33.01	-6.53
	16-QAM	3930.0	-0.50	1 / 135	26.61	26.11	0.408	33.01	-6.90
	64-QAM	3840.0	-0.50	1 / 258	24.73	24.23	0.265	33.01	-8.78
90 MHz	π/2 BPSK	3930.0	-0.50	1 / 135	22.95	22.45	0.176	33.01	-10.56
		3745.0	-0.50	1 / 120	26.82	26.32	0.429	33.01	-6.69
		3840.0	-0.50	1 / 120	26.90	26.40	0.437	33.01	-6.61
	QPSK	3935.0	-0.50	1 / 120	27.00	26.50	0.447	33.01	-6.51
		3745.0	-0.50	1 / 1	26.46	25.96	0.395	33.01	-7.05
		3840.0	-0.50	1 / 238	26.57	26.07	0.405	33.01	-6.94
	16-QAM	3935.0	-0.50	1 / 1	26.82	26.32	0.428	33.01	-6.69
		3840.0	-0.50	1 / 238	26.07	25.57	0.361	33.01	-7.44
80 MHz	64-QAM	3935.0	-0.50	240 / 0	24.59	24.09	0.257	33.01	-8.92
		3840.0	-0.50	1 / 120	22.61	22.11	0.163	33.01	-10.90
		3740.0	-0.50	1 / 108	26.84	26.34	0.431	33.01	-6.67
	π/2 BPSK	3840.0	-0.50	1 / 108	26.97	26.47	0.443	33.01	-6.54
		3940.0	-0.50	1 / 108	27.00	26.50	0.447	33.01	-6.51
		3740.0	-0.50	1 / 1	26.44	25.94	0.393	33.01	-7.07
	QPSK	3840.0	-0.50	1 / 1	26.82	26.32	0.429	33.01	-6.69
		3940.0	-0.50	1 / 108	26.96	26.46	0.443	33.01	-6.55
60 MHz	16-QAM	3740.0	-0.50	1 / 108	24.89	24.39	0.275	33.01	-8.62
		3940.0	-0.50	1 / 108	23.23	22.73	0.187	33.01	-10.28
		3730.0	-0.50	1 / 81	26.74	26.24	0.421	33.01	-6.77
	π/2 BPSK	3840.0	-0.50	1 / 81	26.67	26.17	0.414	33.01	-6.84
		3950.0	-0.50	1 / 1	27.00	26.50	0.447	33.01	-6.51
		3730.0	-0.50	1 / 1	26.76	26.26	0.423	33.01	-6.75
	QPSK	3840.0	-0.50	1 / 81	26.82	26.32	0.429	33.01	-6.69
		3950.0	-0.50	1 / 81	26.90	26.40	0.437	33.01	-6.61
50 MHz	16-QAM	3840.0	-0.50	1 / 81	26.46	25.96	0.394	33.01	-7.05
		3950.0	-0.50	1 / 81	24.73	24.23	0.265	33.01	-8.78
		3950.0	-0.50	1 / 81	22.64	22.14	0.164	33.01	-10.87
	π/2 BPSK	3725.0	-0.50	1 / 1	26.73	26.23	0.420	33.01	-6.78
		3840.0	-0.50	1 / 126	26.41	25.91	0.390	33.01	-7.10
		3955.0	-0.50	1 / 64	26.88	26.38	0.434	33.01	-6.63
	QPSK	3725.0	-0.50	1 / 1	26.55	26.05	0.403	33.01	-6.96
		3840.0	-0.50	1 / 126	26.65	26.15	0.412	33.01	-6.86
40 MHz	16-QAM	3955.0	-0.50	1 / 1	27.00	26.50	0.447	33.01	-6.51
		3955.0	-0.50	1 / 1	26.31	25.81	0.381	33.01	-7.20
		3955.0	-0.50	1 / 64	24.65	24.15	0.260	33.01	-8.86
	π/2 BPSK	3955.0	-0.50	1 / 1	22.70	22.20	0.166	33.01	-10.81
		3720.0	-0.50	1 / 1	26.63	26.13	0.410	33.01	-6.88
		3840.0	-0.50	1 / 98	26.49	25.99	0.397	33.01	-7.02
	QPSK	3960.0	-0.50	1 / 1	26.74	26.24	0.421	33.01	-6.77
		3720.0	-0.50	1 / 1	26.38	25.88	0.387	33.01	-7.13
20 MHz	16-QAM	3840.0	-0.50	1 / 98	26.64	26.14	0.411	33.01	-6.87
		3960.0	-0.50	1 / 1	26.87	26.37	0.434	33.01	-6.64
		3840.0	-0.50	1 / 1	26.04	25.54	0.358	33.01	-7.47
	π/2 BPSK	3960.0	-0.50	1 / 1	24.54	24.04	0.254	33.01	-8.97
		3840.0	-0.50	1 / 98	22.35	21.85	0.153	33.01	-11.16
		3710.0	-0.50	1 / 25	26.70	26.20	0.417	33.01	-6.81
	QPSK	3840.0	-0.50	1 / 48	26.57	26.07	0.404	33.01	-6.94
		3970.0	-0.50	1 / 25	26.53	26.03	0.400	33.01	-6.98
20 MHz	16-QAM	3710.0	-0.50	1 / 48	26.62	26.12	0.409	33.01	-6.89
		3840.0	-0.50	1 / 48	26.59	26.09	0.406	33.01	-6.92
		3970.0	-0.50	1 / 1	26.67	26.17	0.414	33.01	-6.84
	π/2 BPSK	3710.0	-0.50	1 / 1	26.13	25.63	0.366	33.01	-7.38
		3840.0	-0.50	1 / 48	24.47	23.97	0.250	33.01	-9.04
		3840.0	-0.50	1 / 48	22.78	22.28	0.169	33.01	-10.73

Table 7-9. EIRP Data (NR Band n77(PC2))

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 148 of 221

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NR Band n77(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.0	-0.50	1 / 1	25.40	24.90	0.309	33.01	-8.11
		3840.0	-0.50	1 / 1	25.57	25.07	0.321	33.01	-7.94
		3930.0	-0.50	1 / 135	25.70	25.20	0.331	33.01	-7.81
	QPSK	3750.0	-0.50	1 / 1	25.52	25.02	0.318	33.01	-7.99
		3840.0	-0.50	1 / 135	25.65	25.15	0.328	33.01	-7.86
		3930.0	-0.50	1 / 135	25.68	25.18	0.330	33.01	-7.83
	16-QAM	3930.0	-0.50	1 / 135	24.92	24.42	0.277	33.01	-8.59
	64-QAM	3840.0	-0.50	1 / 258	23.75	23.25	0.212	33.01	-9.76
90 MHz	$\pi/2$ BPSK	3750.0	-0.50	1 / 1	21.71	21.21	0.132	33.01	-11.80
		3745.0	-0.50	1 / 238	25.68	25.18	0.329	33.01	-7.83
		3840.0	-0.50	240 / 0	25.45	24.95	0.313	33.01	-8.06
	QPSK	3935.0	-0.50	1 / 120	25.70	25.20	0.331	33.01	-7.81
		3745.0	-0.50	1 / 1	25.48	24.98	0.315	33.01	-8.03
		3840.0	-0.50	1 / 238	25.59	25.09	0.323	33.01	-7.92
	16-QAM	3935.0	-0.50	1 / 238	25.29	24.79	0.301	33.01	-8.22
		3840.0	-0.50	1 / 238	24.70	24.20	0.263	33.01	-8.81
80 MHz	$\pi/2$ BPSK	3935.0	-0.50	240 / 0	23.61	23.11	0.205	33.01	-9.90
		3840.0	-0.50	1 / 120	21.63	21.13	0.130	33.01	-11.88
		3740.0	-0.50	1 / 1	25.59	25.09	0.323	33.01	-7.92
	QPSK	3840.0	-0.50	1 / 214	25.65	25.15	0.328	33.01	-7.86
		3940.0	-0.50	1 / 108	25.70	25.20	0.331	33.01	-7.81
		3740.0	-0.50	1 / 1	25.46	24.96	0.314	33.01	-8.05
	16-QAM	3840.0	-0.50	1 / 1	25.41	24.91	0.310	33.01	-8.10
		3940.0	-0.50	1 / 1	25.61	25.11	0.324	33.01	-7.90
60 MHz	$\pi/2$ BPSK	3740.0	-0.50	1 / 108	21.84	21.34	0.136	33.01	-11.67
		3730.0	-0.50	1 / 162	25.58	25.08	0.322	33.01	-7.93
		3840.0	-0.50	1 / 81	25.69	25.19	0.330	33.01	-7.82
	QPSK	3950.0	-0.50	1 / 1	25.70	25.20	0.331	33.01	-7.81
		3730.0	-0.50	1 / 81	25.65	25.15	0.327	33.01	-7.86
		3840.0	-0.50	1 / 162	25.69	25.19	0.330	33.01	-7.82
	16-QAM	3950.0	-0.50	1 / 1	25.34	24.84	0.305	33.01	-8.17
		3730.0	-0.50	1 / 81	24.58	24.08	0.256	33.01	-8.93
50 MHz	$\pi/2$ BPSK	3950.0	-0.50	162 / 0	23.54	23.04	0.201	33.01	-9.97
		3840.0	-0.50	1 / 162	21.63	21.13	0.130	33.01	-11.88
		3725.0	-0.50	1 / 126	25.35	24.85	0.305	33.01	-8.16
	QPSK	3840.0	-0.50	1 / 126	25.43	24.93	0.311	33.01	-8.08
		3955.0	-0.50	128 / 0	25.55	25.05	0.320	33.01	-7.96
		3725.0	-0.50	1 / 1	25.57	25.07	0.322	33.01	-7.94
	16-QAM	3840.0	-0.50	1 / 126	25.67	25.17	0.329	33.01	-7.84
		3955.0	-0.50	1 / 1	25.70	25.20	0.331	33.01	-7.81
40 MHz	$\pi/2$ BPSK	3955.0	-0.50	1 / 1	24.62	24.12	0.258	33.01	-8.89
		3725.0	-0.50	1 / 1	25.57	25.07	0.322	33.01	-7.94
		3840.0	-0.50	1 / 126	25.67	25.17	0.329	33.01	-7.84
	QPSK	3955.0	-0.50	1 / 64	23.67	23.17	0.207	33.01	-9.84
		3720.0	-0.50	1 / 1	25.65	25.15	0.327	33.01	-7.86
		3840.0	-0.50	1 / 98	25.51	25.01	0.317	33.01	-8.00
	16-QAM	3960.0	-0.50	1 / 50	25.58	25.08	0.322	33.01	-7.93
		3720.0	-0.50	1 / 1	25.40	24.90	0.309	33.01	-8.11
20 MHz	$\pi/2$ BPSK	3840.0	-0.50	1 / 98	25.66	25.16	0.328	33.01	-7.85
		3960.0	-0.50	1 / 1	25.70	25.20	0.331	33.01	-7.81
		3720.0	-0.50	1 / 1	24.67	24.17	0.261	33.01	-8.84
	QPSK	3840.0	-0.50	1 / 1	23.37	22.87	0.194	33.01	-10.14
		3960.0	-0.50	1 / 1	21.37	20.87	0.122	33.01	-12.14
		3710.0	-0.50	1 / 25	25.40	24.90	0.309	33.01	-8.11
	16-QAM	3840.0	-0.50	1 / 48	25.27	24.77	0.300	33.01	-8.24
		3970.0	-0.50	1 / 48	25.27	24.77	0.300	33.01	-8.24
	64-QAM	3710.0	-0.50	1 / 1	25.34	24.84	0.305	33.01	-8.17
		3840.0	-0.50	1 / 48	24.99	24.49	0.281	33.01	-8.52
		3970.0	-0.50	1 / 48	25.09	24.59	0.287	33.01	-8.42
20 MHz	256-QAM	3710.0	-0.50	1 / 1	24.76	24.26	0.267	33.01	-8.75
		3710.0	-0.50	1 / 1	23.27	22.77	0.189	33.01	-10.24
20 MHz	256-QAM	3710.0	-0.50	1 / 1	21.39	20.89	0.123	33.01	-12.12

Table 7-10. EIRP Data (NR Band n77(PC3))

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 149 of 221

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7.6.2 Antenna 1 – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	2310.0	-4.10	1 / 25	18.68	14.58	0.029	23.98	-9.40
	16-QAM	2310.0	-4.10	1 / 1	18.01	13.91	0.025	23.98	-10.07
	64-QAM	2310.0	-4.10	1 / 25	18.02	13.92	0.025	23.98	-10.06
	256-QAM	2310.0	-4.10	1 / 1	18.05	13.95	0.025	23.98	-10.03
5 MHz	QPSK	2307.5	-4.10	1 / 24	18.68	14.58	0.029	23.98	-9.40
		2312.5	-4.10	1 / 1	18.63	14.53	0.028	23.98	-9.45
	16-QAM	2307.5	-4.10	1 / 1	18.64	14.54	0.028	23.98	-9.44
	64-QAM	2312.5	-4.10	1 / 1	18.90	14.80	0.030	23.98	-9.18
	256-QAM	2312.5	-4.10	1 / 1	18.91	14.81	0.030	23.98	-9.17

Table 7-11. EIRP Data (LTE Band 30)

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2510.0	-0.60	1 / 99	20.68	20.08	0.102	33.01	-12.93
		2535.0	-0.60	1 / 99	20.63	20.03	0.101	33.01	-12.98
		2560.0	-0.60	1 / 99	20.78	20.18	0.104	33.01	-12.83
	16-QAM	2535.0	-0.60	1 / 99	20.02	19.42	0.087	33.01	-13.59
	64-QAM	2535.0	-0.60	1 / 1	19.31	18.71	0.074	33.01	-14.30
15 MHz	QPSK	2560.0	-0.60	1 / 99	16.16	15.56	0.036	33.01	-17.45
		2507.5	-0.60	1 / 37	20.79	20.19	0.104	33.01	-12.82
		2535.0	-0.60	1 / 74	20.79	20.19	0.104	33.01	-12.82
		2562.5	-0.60	1 / 37	20.54	19.94	0.099	33.01	-13.07
	16-QAM	2535.0	-0.60	1 / 74	19.99	19.39	0.087	33.01	-13.62
	64-QAM	2535.0	-0.60	1 / 37	19.45	18.85	0.077	33.01	-14.16
	256-QAM	2535.0	-0.60	1 / 37	15.91	15.31	0.034	33.01	-17.70
10 MHz	QPSK	2505.0	-0.60	1 / 49	20.77	20.17	0.104	33.01	-12.84
		2535.0	-0.60	1 / 49	20.85	20.25	0.106	33.01	-12.76
		2565.0	-0.60	1 / 25	20.59	19.99	0.100	33.01	-13.02
	16-QAM	2535.0	-0.60	1 / 25	20.00	19.40	0.087	33.01	-13.61
	64-QAM	2535.0	-0.60	1 / 25	19.44	18.84	0.077	33.01	-14.17
	256-QAM	2535.0	-0.60	1 / 49	16.09	15.49	0.035	33.01	-17.52
5 MHz	QPSK	2502.5	-0.60	25 / 0	20.83	20.23	0.105	33.01	-12.78
		2535.0	-0.60	1 / 12	20.24	19.64	0.092	33.01	-13.37
		2567.5	-0.60	1 / 12	20.76	20.16	0.104	33.01	-12.85
	16-QAM	2502.5	-0.60	1 / 24	19.28	18.68	0.074	33.01	-14.33
	64-QAM	2535.0	-0.60	25 / 0	19.21	18.61	0.073	33.01	-14.40
	256-QAM	2567.5	-0.60	1 / 24	16.53	15.93	0.039	33.01	-17.08

Table 7-12. EIRP Data (LTE Band 7)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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LTE Band 41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-0.80	1 / 99	22.90	22.10	0.162	33.01	-10.91
		2593.0	-0.80	1 / 50	22.33	21.53	0.142	33.01	-11.48
		2680.0	-0.80	1 / 50	22.27	21.47	0.140	33.01	-11.54
	16-QAM	2593.0	-0.80	1 / 99	21.90	21.10	0.129	33.01	-11.91
	64-QAM	2680.0	-0.80	1 / 50	20.78	19.98	0.100	33.01	-13.03
	256-QAM	2593.0	-0.80	100 / 0	18.32	17.52	0.056	33.01	-15.49
15 MHz	QPSK	2503.5	-0.80	1 / 74	22.90	22.10	0.162	33.01	-10.91
		2593.0	-0.80	75 / 0	22.21	21.41	0.138	33.01	-11.60
		2682.5	-0.80	75 / 0	22.06	21.26	0.134	33.01	-11.75
	16-QAM	2593.0	-0.80	1 / 74	21.37	20.57	0.114	33.01	-12.44
	64-QAM	2593.0	-0.80	1 / 74	20.78	19.98	0.100	33.01	-13.03
	256-QAM	2593.0	-0.80	75 / 0	18.34	17.54	0.057	33.01	-15.47
10 MHz	QPSK	2501.0	-0.80	1 / 49	22.90	22.10	0.162	33.01	-10.91
		2593.0	-0.80	1 / 25	22.38	21.58	0.144	33.01	-11.43
		2685.0	-0.80	1 / 25	22.26	21.46	0.140	33.01	-11.55
	16-QAM	2501.0	-0.80	1 / 1	22.36	21.56	0.143	33.01	-11.45
	64-QAM	2593.0	-0.80	1 / 49	20.88	20.08	0.102	33.01	-12.93
	256-QAM	2593.0	-0.80	50 / 0	18.33	17.53	0.057	33.01	-15.48
5 MHz	QPSK	2498.5	-0.80	1 / 12	22.90	22.10	0.162	33.01	-10.91
		2593.0	-0.80	1 / 24	21.74	20.94	0.124	33.01	-12.07
		2687.5	-0.80	1 / 24	21.72	20.92	0.124	33.01	-12.09
	16-QAM	2498.5	-0.80	1 / 24	22.02	21.22	0.132	33.01	-11.79
	64-QAM	2593.0	-0.80	1 / 12	21.74	20.94	0.124	33.01	-12.07
	256-QAM	2593.0	-0.80	1 / 12	18.96	18.16	0.065	33.01	-14.85

Table 7-13. EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 151 of 221

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LTE Band 41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-0.80	1 / 1	20.90	20.10	0.102	33.01	-12.91
		2593.0	-0.80	1 / 50	20.82	20.02	0.100	33.01	-12.99
		2680.0	-0.80	1 / 50	20.66	19.86	0.097	33.01	-13.15
	16-QAM	2680.0	-0.80	1 / 99	20.04	19.24	0.084	33.01	-13.77
	64-QAM	2680.0	-0.80	1 / 50	19.30	18.50	0.071	33.01	-14.51
	256-QAM	2680.0	-0.80	1 / 50	17.59	16.79	0.048	33.01	-16.22
15 MHz	QPSK	2503.5	-0.80	1 / 1	20.63	19.83	0.096	33.01	-13.18
		2593.0	-0.80	1 / 1	20.61	19.81	0.096	33.01	-13.20
		2682.5	-0.80	1 / 74	20.67	19.87	0.097	33.01	-13.14
	16-QAM	2682.5	-0.80	1 / 74	19.67	18.87	0.077	33.01	-14.14
	64-QAM	2593.0	-0.80	75 / 0	18.66	17.86	0.061	33.01	-15.15
	256-QAM	2682.5	-0.80	1 / 74	17.16	16.36	0.043	33.01	-16.65
10 MHz	QPSK	2501.0	-0.80	1 / 49	20.83	20.03	0.101	33.01	-12.98
		2593.0	-0.80	1 / 25	20.73	19.93	0.098	33.01	-13.08
		2685.0	-0.80	1 / 1	20.67	19.87	0.097	33.01	-13.14
	16-QAM	2501.0	-0.80	1 / 49	20.53	19.73	0.094	33.01	-13.28
	64-QAM	2501.0	-0.80	1 / 49	19.78	18.98	0.079	33.01	-14.03
	256-QAM	2501.0	-0.80	1 / 1	18.03	17.23	0.053	33.01	-15.78
5 MHz	QPSK	2498.5	-0.80	1 / 1	20.89	20.09	0.102	33.01	-12.92
		2593.0	-0.80	1 / 12	20.87	20.07	0.102	33.01	-12.94
		2687.5	-0.80	1 / 1	20.54	19.74	0.094	33.01	-13.27
	16-QAM	2498.5	-0.80	1 / 24	20.00	19.20	0.083	33.01	-13.81
	64-QAM	2498.5	-0.80	1 / 24	19.26	18.46	0.070	33.01	-14.55
	256-QAM	2498.5	-0.80	1 / 24	17.50	16.70	0.047	33.01	-16.31

Table 7-14. EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 152 of 221

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ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]			
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset	
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	20.90	-0.60	20.30	0.107	33.01	-12.71	
				21100	2535.0	1	99		21298	2554.8	1	0	20.90	-0.60	20.30	0.107	33.01	-12.71	
				21350	2560.0	1	0		21152	2540.2	1	99	20.85	-0.60	20.25	0.106	33.01	-12.76	
				20850	2510	100	0		QPSK	21048	2529.8	100	0	18.46	-0.60	17.86	0.061	33.01	-15.15
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	17.49	-0.60	16.89	0.049	33.01	-16.12	
				64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	17.48	-0.60	16.88	0.049	33.01	-16.13
				256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	15.53	-0.60	14.93	0.031	33.01	-18.08
				256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	15.53	-0.60	14.93	0.031	33.01	-18.08

Table 7-229. Conducted Power Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	22.98	-0.80	22.18	0.165	33.01	-10.83
				40620	2593.0	1	99		40818	2612.8	1	0	23.20	-0.80	22.40	0.174	33.01	-10.61
				41490	2680.0	1	0		41292	2660.2	1	99	23.08	-0.80	22.28	0.169	33.01	-10.73
				40620	2593	100	0		QPSK	40818	2612.8	100	0	21.99	-0.80	21.19	0.132	33.01
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	20.84	-0.80	20.04	0.101	33.01	-12.97
				40620	2593	100	0	16-QAM	40818	2612.8	100	0	19.89	-0.80	19.09	0.081	33.01	-13.92
				40620	2593	100	0	16-QAM	40818	2612.8	100	0	18.90	-0.80	18.10	0.065	33.01	-14.91
				40620	2593	100	0	16-QAM	40818	2612.8	100	0	18.90	-0.80	18.10	0.065	33.01	-14.91

Table 7-230. Conducted Power Data (ULCA LTE Band 41(PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	20.90	-0.80	20.10	0.102	33.01	-12.91
				40620	2593.0	1	99		40818	2612.8	1	0	20.86	-0.80	20.06	0.101	33.01	-12.95
				41490	2680.0	1	0		41292	2660.2	1	99	20.90	-0.80	20.10	0.102	33.01	-12.91
				39750	2506	100	0		39948	2525.8	100	0	18.90	-0.80	18.10	0.065	33.01	-14.91
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	17.89	-0.80	17.09	0.061	33.01	-15.92
				39750	2506	100	0	16-QAM	39948	2525.8	100	0	17.87	-0.80	17.07	0.061	33.01	-15.94
				39750	2506	100	0	16-QAM	39948	2525.8	100	0	16.71	-0.80	15.91	0.039	33.01	-17.10
				39750	2506	100	0	16-QAM	39948	2525.8	100	0	16.71	-0.80	15.91	0.039	33.01	-17.10

Table 7-231. Conducted Power Data (ULCA LTE Band 41(PC3))

FCC ID: BCGA2301	 PCTEST Proud to be part of element		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 153 of 221

NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.0	-4.50	1 / 258	26.77	22.27	0.169	33.01	-10.74
		2593.0	-4.50	1 / 135	26.68	22.18	0.165	33.01	-10.84
		2640.0	-4.50	1 / 1	27.00	22.50	0.178	33.01	-10.51
	QPSK	2546.0	-4.50	1 / 135	26.75	22.25	0.168	33.01	-10.76
		2593.0	-4.50	1 / 258	26.87	22.37	0.172	33.01	-10.64
		2640.0	-4.50	1 / 135	26.75	22.25	0.168	33.01	-10.76
	16-QAM	2593.0	-4.50	1 / 258	26.26	21.76	0.150	33.01	-11.25
	64-QAM	2593.0	-4.50	270 / 0	25.20	20.70	0.117	33.01	-12.31
90 MHz	$\pi/2$ BPSK	2640.0	-4.50	270 / 0	23.26	18.76	0.075	33.01	-14.25
		2541.0	-4.50	1 / 238	26.89	22.39	0.173	33.01	-10.62
		2593.0	-4.50	1 / 120	26.89	22.39	0.173	33.01	-10.62
	QPSK	2645.0	-4.50	1 / 120	26.88	22.38	0.173	33.01	-10.63
		2541.0	-4.50	1 / 120	26.65	22.15	0.164	33.01	-10.86
		2593.0	-4.50	1 / 120	27.00	22.50	0.178	33.01	-10.51
	16-QAM	2645.0	-4.50	240 / 0	26.72	22.22	0.167	33.01	-10.79
	64-QAM	2593.0	-4.50	1 / 120	26.05	21.55	0.143	33.01	-11.46
80 MHz	$\pi/2$ BPSK	2645.0	-4.50	240 / 0	25.24	20.74	0.119	33.01	-12.27
		2593.0	-4.50	240 / 0	23.16	18.66	0.074	33.01	-14.35
		2536.0	-4.50	1 / 108	27.00	22.50	0.178	33.01	-10.51
	QPSK	2593.0	-4.50	1 / 108	26.78	22.28	0.169	33.01	-10.73
		2650.0	-4.50	1 / 1	26.61	22.11	0.163	33.01	-10.90
		2536.0	-4.50	1 / 108	26.91	22.41	0.174	33.01	-10.60
	16-QAM	2593.0	-4.50	1 / 108	26.89	22.39	0.173	33.01	-10.62
	64-QAM	2650.0	-4.50	216 / 0	25.19	20.69	0.117	33.01	-12.32
60 MHz	$\pi/2$ BPSK	2593.0	-4.50	216 / 0	23.14	18.64	0.073	33.01	-14.37
		2526.0	-4.50	1 / 162	27.00	22.50	0.178	33.01	-10.51
		2593.0	-4.50	1 / 162	26.71	22.21	0.166	33.01	-10.80
	QPSK	2660.0	-4.50	162 / 0	26.91	22.41	0.174	33.01	-10.60
		2526.0	-4.50	1 / 81	26.77	22.27	0.169	33.01	-10.74
		2593.0	-4.50	1 / 1	26.91	22.41	0.174	33.01	-10.60
	16-QAM	2660.0	-4.50	1 / 1	26.62	22.12	0.163	33.01	-10.89
	64-QAM	2526.0	-4.50	1 / 81	26.11	21.61	0.145	33.01	-11.40
50 MHz	$\pi/2$ BPSK	2593.0	-4.50	162 / 0	25.12	20.62	0.115	33.01	-12.39
		2660.0	-4.50	1 / 162	23.19	18.69	0.074	33.01	-14.32
		2521.0	-4.50	1 / 126	26.99	22.49	0.177	33.01	-10.52
	QPSK	2593.0	-4.50	1 / 126	26.60	22.10	0.162	33.01	-10.91
		2665.0	-4.50	1 / 1	26.46	21.96	0.157	33.01	-11.05
		2521.0	-4.50	1 / 126	27.00	22.50	0.178	33.01	-10.51
	16-QAM	2593.0	-4.50	1 / 1	26.86	22.36	0.172	33.01	-10.65
	64-QAM	2665.0	-4.50	1 / 126	26.66	22.16	0.164	33.01	-10.85
40 MHz	$\pi/2$ BPSK	2665.0	-4.50	1 / 126	25.98	21.48	0.141	33.01	-11.53
		2593.0	-4.50	128 / 0	25.04	20.54	0.113	33.01	-12.47
		2593.0	-4.50	128 / 0	23.08	18.58	0.072	33.01	-14.43
	QPSK	2516.0	-4.50	1 / 50	26.86	22.36	0.172	33.01	-10.65
		2593.0	-4.50	1 / 98	26.82	22.32	0.170	33.01	-10.70
		2670.0	-4.50	100 / 0	26.97	22.47	0.177	33.01	-10.54
	16-QAM	2516.0	-4.50	1 / 50	26.70	22.20	0.166	33.01	-10.81
	64-QAM	2593.0	-4.50	1 / 50	26.82	22.32	0.170	33.01	-10.69
20 MHz	$\pi/2$ BPSK	2670.0	-4.50	1 / 50	27.00	22.50	0.178	33.01	-10.51
		2593.0	-4.50	1 / 1	26.15	21.65	0.146	33.01	-11.36
		2593.0	-4.50	100 / 0	25.14	20.64	0.116	33.01	-12.37
	QPSK	2593.0	-4.50	100 / 0	23.06	18.56	0.072	33.01	-14.45
		2506.0	-4.50	1 / 25	26.41	21.91	0.155	33.01	-11.10
		2593.0	-4.50	1 / 25	26.70	22.20	0.166	33.01	-10.81
	16-QAM	2680.0	-4.50	1 / 25	26.38	21.88	0.154	33.01	-11.13
	64-QAM	2506.0	-4.50	1 / 25	26.25	21.75	0.150	33.01	-11.26
20 MHz	$\pi/2$ BPSK	2593.0	-4.50	50 / 0	26.58	22.08	0.161	33.01	-10.93
		2680.0	-4.50	50 / 0	26.46	21.96	0.157	33.01	-11.05
		2680.0	-4.50	1 / 48	26.06	21.56	0.143	33.01	-11.45
	16-QAM	2593.0	-4.50	50 / 0	25.12	20.62	0.115	33.01	-12.39
	64-QAM	2680.0	-4.50	50 / 0	22.96	18.46	0.070	33.01	-14.55
	256-QAM	2680.0	-4.50	50 / 0	22.96	18.46	0.070	33.01	-14.55

Table 7-15. EIRP Data (NR Band n41(PC2) – DFT-s OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 154 of 221

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NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.0	-4.50	1 / 258	25.59	21.09	0.129	33.01	-11.92
		2593.0	-4.50	1 / 258	25.49	20.99	0.126	33.01	-12.02
		2640.0	-4.50	1 / 258	25.51	21.01	0.126	33.01	-12.00
	QPSK	2546.0	-4.50	1 / 135	25.53	21.03	0.127	33.01	-11.98
		2593.0	-4.50	1 / 258	25.48	20.98	0.125	33.01	-12.03
		2640.0	-4.50	1 / 258	25.70	21.20	0.132	33.01	-11.81
	16-QAM	2546.0	-4.50	1 / 135	24.67	20.17	0.104	33.01	-12.84
	64-QAM	2640.0	-4.50	1 / 1	23.64	19.14	0.082	33.01	-13.87
90 MHz	$\pi/2$ BPSK	2541.0	-4.50	1 / 120	25.48	20.98	0.125	33.01	-12.03
		2593.0	-4.50	1 / 120	25.62	21.12	0.129	33.01	-11.89
		2645.0	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
	QPSK	2541.0	-4.50	1 / 238	25.40	20.90	0.123	33.01	-12.11
		2593.0	-4.50	1 / 120	25.68	21.18	0.131	33.01	-11.83
		2645.0	-4.50	1 / 1	25.58	21.08	0.128	33.01	-11.93
	16-QAM	2645.0	-4.50	1 / 238	24.92	20.42	0.110	33.01	-12.59
	64-QAM	2593.0	-4.50	1 / 120	23.51	19.01	0.080	33.01	-14.00
80 MHz	$\pi/2$ BPSK	2536.0	-4.50	1 / 214	25.66	21.16	0.131	33.01	-11.85
		2593.0	-4.50	1 / 214	25.38	20.88	0.123	33.01	-12.13
		2650.0	-4.50	1 / 1	25.69	21.19	0.131	33.01	-11.82
	QPSK	2536.0	-4.50	1 / 214	25.60	21.10	0.129	33.01	-11.91
		2593.0	-4.50	1 / 214	25.60	21.10	0.129	33.01	-11.91
		2650.0	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
	16-QAM	2650.0	-4.50	1 / 108	24.76	20.26	0.106	33.01	-12.75
	64-QAM	2536.0	-4.50	1 / 214	23.47	18.97	0.079	33.01	-14.04
60 MHz	$\pi/2$ BPSK	2526.0	-4.50	1 / 81	25.52	21.02	0.126	33.01	-12.00
		2593.0	-4.50	1 / 162	25.70	21.20	0.132	33.01	-11.81
		2660.0	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
	QPSK	2526.0	-4.50	1 / 162	25.47	20.97	0.125	33.01	-12.04
		2593.0	-4.50	1 / 81	25.55	21.05	0.127	33.01	-11.96
		2660.0	-4.50	1 / 81	25.62	21.12	0.129	33.01	-11.89
	16-QAM	2593.0	-4.50	1 / 81	25.04	20.54	0.113	33.01	-12.47
	64-QAM	2660.0	-4.50	1 / 81	23.47	18.97	0.079	33.01	-14.04
50 MHz	$\pi/2$ BPSK	2521.0	-4.50	1 / 126	25.48	20.98	0.125	33.01	-12.03
		2593.0	-4.50	1 / 1	25.65	21.15	0.130	33.01	-11.86
		2665.0	-4.50	1 / 126	25.51	21.01	0.126	33.01	-12.00
	QPSK	2521.0	-4.50	1 / 126	25.36	20.86	0.122	33.01	-12.15
		2593.0	-4.50	1 / 1	25.52	21.02	0.126	33.01	-11.99
		2665.0	-4.50	1 / 1	25.70	21.20	0.132	33.01	-11.81
	16-QAM	2665.0	-4.50	1 / 126	24.97	20.47	0.111	33.01	-12.54
	64-QAM	2665.0	-4.50	1 / 64	23.42	18.92	0.078	33.01	-14.09
40 MHz	$\pi/2$ BPSK	2516.0	-4.50	1 / 50	25.61	21.11	0.129	33.01	-11.90
		2593.0	-4.50	1 / 98	25.70	21.20	0.132	33.01	-11.81
		2670.0	-4.50	1 / 98	25.48	20.98	0.125	33.01	-12.03
	QPSK	2516.0	-4.50	1 / 98	25.67	21.17	0.131	33.01	-11.84
		2593.0	-4.50	1 / 98	25.59	21.09	0.128	33.01	-11.92
		2670.0	-4.50	1 / 98	25.52	21.02	0.126	33.01	-11.99
	16-QAM	2516.0	-4.50	1 / 50	25.07	20.57	0.114	33.01	-12.44
	64-QAM	2670.0	-4.50	1 / 1	23.52	19.02	0.080	33.01	-13.99
20 MHz	$\pi/2$ BPSK	2516.0	-4.50	1 / 50	21.42	16.92	0.049	33.01	-16.09
		2506.0	-4.50	1 / 48	25.01	20.51	0.112	33.01	-12.50
		2593.0	-4.50	50 / 0	25.16	20.66	0.116	33.01	-12.35
	QPSK	2680.0	-4.50	50 / 0	25.29	20.79	0.120	33.01	-12.22
		2506.0	-4.50	1 / 48	24.82	20.32	0.108	33.01	-12.69
		2593.0	-4.50	1 / 48	24.93	20.43	0.110	33.01	-12.58
	16-QAM	2680.0	-4.50	1 / 1	25.40	20.90	0.123	33.01	-12.11
	64-QAM	2593.0	-4.50	50 / 0	23.28	18.78	0.076	33.01	-14.23
20 MHz	256-QAM	2593.0	-4.50	50 / 0	21.27	16.77	0.048	33.01	-16.24

Table 7-16. EIRP Data (NR Band n41(PC3) – DFTs OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 155 of 221

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NR Band n77(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.0	-1.60	1 / 1	22.89	21.29	0.135	33.01	-11.72
		3840.0	-1.60	1 / 1	22.30	20.70	0.117	33.01	-12.31
		3930.0	-1.60	1 / 258	22.15	20.55	0.114	33.01	-12.46
	QPSK	3750.0	-1.60	1 / 1	22.86	21.26	0.134	33.01	-11.75
		3840.0	-1.60	1 / 258	22.49	20.89	0.123	33.01	-12.12
		3930.0	-1.60	1 / 135	22.45	20.85	0.122	33.01	-12.16
	16-QAM	3930.0	-1.60	1 / 258	21.26	19.66	0.092	33.01	-13.35
	64-QAM	3750.0	-1.60	1 / 1	20.08	18.48	0.070	33.01	-14.53
90 MHz	$\pi/2$ BPSK	3750.0	-1.60	1 / 1	18.35	16.75	0.047	33.01	-16.26
		3745.0	-1.60	1 / 1	22.43	20.83	0.121	33.01	-12.18
		3840.0	-1.60	1 / 238	22.39	20.79	0.120	33.01	-12.22
	QPSK	3935.0	-1.60	1 / 120	22.55	20.95	0.124	33.01	-12.06
		3745.0	-1.60	1 / 1	22.80	21.20	0.132	33.01	-11.81
		3840.0	-1.60	1 / 120	22.46	20.86	0.122	33.01	-12.16
	16-QAM	3935.0	-1.60	1 / 120	22.65	21.05	0.127	33.01	-11.96
		3745.0	-1.60	1 / 1	21.57	19.97	0.099	33.01	-13.04
80 MHz	$\pi/2$ BPSK	3745.0	-1.60	1 / 1	20.25	18.65	0.073	33.01	-14.36
		3745.0	-1.60	1 / 1	18.63	17.03	0.051	33.01	-15.98
		3740.0	-1.60	1 / 1	22.63	21.03	0.127	33.01	-11.98
	QPSK	3840.0	-1.60	1 / 1	22.37	20.77	0.119	33.01	-12.24
		3940.0	-1.60	1 / 214	22.45	20.85	0.122	33.01	-12.16
		3740.0	-1.60	1 / 1	22.84	21.24	0.133	33.01	-11.77
	16-QAM	3840.0	-1.60	1 / 108	22.70	21.10	0.129	33.01	-11.91
		3940.0	-1.60	1 / 1	22.30	20.70	0.117	33.01	-12.31
60 MHz	$\pi/2$ BPSK	3740.0	-1.60	1 / 1	18.60	17.00	0.050	33.01	-16.01
		3730.0	-1.60	1 / 1	22.56	20.96	0.125	33.01	-12.05
		3840.0	-1.60	1 / 81	22.21	20.61	0.115	33.01	-12.40
	QPSK	3950.0	-1.60	1 / 162	22.38	20.78	0.120	33.01	-12.23
		3730.0	-1.60	1 / 1	22.51	20.91	0.123	33.01	-12.10
		3840.0	-1.60	1 / 1	22.76	21.16	0.131	33.01	-11.85
	16-QAM	3950.0	-1.60	1 / 1	22.34	20.74	0.119	33.01	-12.27
		3840.0	-1.60	1 / 1	21.75	20.15	0.103	33.01	-12.86
50 MHz	$\pi/2$ BPSK	3840.0	-1.60	1 / 1	20.08	18.48	0.070	33.01	-14.53
		3840.0	-1.60	1 / 81	18.16	16.56	0.045	33.01	-16.45
		3725.0	-1.60	1 / 1	22.77	21.17	0.131	33.01	-11.84
	QPSK	3840.0	-1.60	1 / 126	22.31	20.71	0.118	33.01	-12.30
		3955.0	-1.60	1 / 1	22.46	20.86	0.122	33.01	-12.15
		3725.0	-1.60	1 / 126	22.19	20.59	0.115	33.01	-12.42
	16-QAM	3840.0	-1.60	1 / 1	22.27	20.67	0.117	33.01	-12.34
		3955.0	-1.60	1 / 126	22.12	20.52	0.113	33.01	-12.49
40 MHz	$\pi/2$ BPSK	3955.0	-1.60	1 / 126	21.44	19.84	0.096	33.01	-13.17
		3840.0	-1.60	1 / 1	19.91	18.31	0.068	33.01	-14.70
		3725.0	-1.60	1 / 1	18.02	16.42	0.044	33.01	-16.59
	QPSK	3720.0	-1.60	1 / 50	22.67	21.07	0.128	33.01	-11.94
		3840.0	-1.60	1 / 98	22.47	20.87	0.122	33.01	-12.14
		3960.0	-1.60	1 / 50	22.60	21.00	0.126	33.01	-12.01
	16-QAM	3720.0	-1.60	1 / 98	22.33	20.73	0.118	33.01	-12.28
		3840.0	-1.60	1 / 1	22.25	20.65	0.116	33.01	-12.36
20 MHz	$\pi/2$ BPSK	3960.0	-1.60	1 / 1	22.13	20.53	0.113	33.01	-12.48
		3720.0	-1.60	1 / 98	21.42	19.82	0.096	33.01	-13.19
		3720.0	-1.60	1 / 50	19.86	18.26	0.067	33.01	-14.75
	QPSK	3720.0	-1.60	1 / 1	17.95	16.35	0.043	33.01	-16.66
		3710.0	-1.60	1 / 48	22.54	20.94	0.124	33.01	-12.07
		3840.0	-1.60	1 / 1	22.42	20.82	0.121	33.01	-12.19
	16-QAM	3970.0	-1.60	1 / 48	22.25	20.65	0.116	33.01	-12.36
		3710.0	-1.60	1 / 1	22.38	20.78	0.120	33.01	-12.23
20 MHz	$\pi/2$ BPSK	3840.0	-1.60	1 / 48	22.33	20.73	0.118	33.01	-12.28
		3970.0	-1.60	1 / 1	22.15	20.55	0.113	33.01	-12.46
		3710.0	-1.60	1 / 1	21.55	19.95	0.099	33.01	-13.06
	QPSK	3710.0	-1.60	1 / 1	20.05	18.45	0.070	33.01	-14.56
		3710.0	-1.60	1 / 48	18.35	16.75	0.047	33.01	-16.26
		3710.0	-1.60	1 / 48	18.35	16.75	0.047	33.01	-16.26
	16-QAM	3710.0	-1.60	1 / 48	18.35	16.75	0.047	33.01	-16.26
		3710.0	-1.60	1 / 48	18.35	16.75	0.047	33.01	-16.26
		3710.0	-1.60	1 / 48	18.35	16.75	0.047	33.01	-16.26

Table 7-17. EIRP Data (NR Band n77(PC2) – DFT-s OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 156 of 221

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NR Band n77(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.0	-1.60	1 / 1	21.70	20.10	0.102	33.01	-12.91
		3840.0	-1.60	1 / 1	21.36	19.76	0.095	33.01	-13.25
		3930.0	-1.60	1 / 258	21.21	19.61	0.091	33.01	-13.40
	QPSK	3750.0	-1.60	1 / 1	21.67	20.07	0.102	33.01	-12.94
		3840.0	-1.60	1 / 258	21.55	19.95	0.099	33.01	-13.06
		3930.0	-1.60	1 / 135	21.51	19.91	0.098	33.01	-13.10
	16-QAM	3930.0	-1.60	1 / 258	20.32	18.72	0.074	33.01	-14.29
90 MHz	$\pi/2$ BPSK	3750.0	-1.60	1 / 258	19.12	17.52	0.057	33.01	-15.49
		3750.0	-1.60	1 / 135	17.23	15.63	0.037	33.01	-17.38
		3745.0	-1.60	1 / 1	21.49	19.89	0.098	33.01	-13.12
	QPSK	3840.0	-1.60	1 / 238	21.45	19.85	0.097	33.01	-13.16
		3935.0	-1.60	1 / 120	21.61	20.01	0.100	33.01	-13.00
		3745.0	-1.60	1 / 1	21.70	20.10	0.102	33.01	-12.91
	16-QAM	3840.0	-1.60	1 / 120	21.52	19.92	0.098	33.01	-13.10
80 MHz	$\pi/2$ BPSK	3935.0	-1.60	1 / 120	21.55	19.95	0.099	33.01	-13.06
		3745.0	-1.60	1 / 1	20.47	18.87	0.077	33.01	-14.14
		3745.0	-1.60	1 / 1	19.15	17.55	0.057	33.01	-15.46
	QPSK	3745.0	-1.60	1 / 1	17.54	15.94	0.039	33.01	-17.07
		3740.0	-1.60	1 / 1	21.69	20.09	0.102	33.01	-12.92
		3840.0	-1.60	1 / 1	21.43	19.83	0.096	33.01	-13.18
	16-QAM	3940.0	-1.60	1 / 214	21.51	19.91	0.098	33.01	-13.10
60 MHz	$\pi/2$ BPSK	3740.0	-1.60	1 / 1	21.70	20.10	0.102	33.01	-12.91
		3840.0	-1.60	1 / 1	21.64	20.04	0.101	33.01	-12.97
		3940.0	-1.60	1 / 1	21.36	19.76	0.095	33.01	-13.25
	QPSK	3740.0	-1.60	1 / 1	20.63	19.03	0.080	33.01	-13.98
		3740.0	-1.60	1 / 1	19.00	17.40	0.055	33.01	-15.61
		3740.0	-1.60	1 / 1	17.46	15.86	0.039	33.01	-17.15
	16-QAM	3730.0	-1.60	1 / 1	21.62	20.02	0.100	33.01	-12.99
50 MHz	$\pi/2$ BPSK	3840.0	-1.60	1 / 81	21.27	19.67	0.093	33.01	-13.34
		3950.0	-1.60	1 / 162	21.44	19.84	0.096	33.01	-13.17
		3730.0	-1.60	1 / 1	21.57	19.97	0.099	33.01	-13.04
	QPSK	3840.0	-1.60	1 / 1	21.70	20.10	0.102	33.01	-12.91
		3950.0	-1.60	1 / 1	21.40	19.80	0.096	33.01	-13.21
		3730.0	-1.60	1 / 81	20.71	19.11	0.082	33.01	-13.90
	16-QAM	3840.0	-1.60	1 / 162	19.05	17.45	0.056	33.01	-15.56
40 MHz	$\pi/2$ BPSK	3840.0	-1.60	1 / 81	17.22	15.62	0.036	33.01	-17.39
		3725.0	-1.60	1 / 1	21.70	20.10	0.102	33.01	-12.91
		3840.0	-1.60	1 / 126	21.37	19.77	0.095	33.01	-13.24
	QPSK	3955.0	-1.60	1 / 1	21.52	19.92	0.098	33.01	-13.09
		3725.0	-1.60	1 / 126	21.25	19.65	0.092	33.01	-13.36
		3840.0	-1.60	1 / 1	21.33	19.73	0.094	33.01	-13.28
	16-QAM	3955.0	-1.60	1 / 126	21.18	19.58	0.091	33.01	-13.43
20 MHz	$\pi/2$ BPSK	3955.0	-1.60	1 / 126	20.50	18.90	0.078	33.01	-14.11
		3840.0	-1.60	1 / 1	18.97	17.37	0.055	33.01	-15.64
		3725.0	-1.60	1 / 1	17.08	15.48	0.035	33.01	-17.53
	QPSK	3720.0	-1.60	1 / 50	21.70	20.10	0.102	33.01	-12.91
		3840.0	-1.60	1 / 98	21.53	19.93	0.098	33.01	-13.08
		3960.0	-1.60	1 / 50	21.66	20.06	0.101	33.01	-12.95
	16-QAM	3720.0	-1.60	1 / 98	21.39	19.79	0.095	33.01	-13.22
10 MHz	$\pi/2$ BPSK	3840.0	-1.60	1 / 1	21.31	19.71	0.093	33.01	-13.30
		3960.0	-1.60	1 / 1	21.19	19.59	0.091	33.01	-13.42
		3720.0	-1.60	1 / 98	20.48	18.88	0.077	33.01	-14.13
	QPSK	3720.0	-1.60	1 / 50	18.92	17.32	0.054	33.01	-15.69
		3720.0	-1.60	1 / 1	17.01	15.41	0.035	33.01	-17.60
		3710.0	-1.60	1 / 48	21.60	20.00	0.100	33.01	-13.01
	16-QAM	3840.0	-1.60	1 / 1	21.48	19.88	0.097	33.01	-13.13
5 MHz	$\pi/2$ BPSK	3970.0	-1.60	1 / 48	21.31	19.71	0.094	33.01	-13.30
		3710.0	-1.60	1 / 1	21.44	19.84	0.096	33.01	-13.17
		3840.0	-1.60	1 / 48	21.39	19.79	0.095	33.01	-13.22
	QPSK	3970.0	-1.60	1 / 1	21.21	19.61	0.091	33.01	-13.40
		3710.0	-1.60	1 / 1	20.61	19.01	0.080	33.01	-14.00
		3710.0	-1.60	1 / 1	19.11	17.51	0.056	33.01	-15.50
	16-QAM	3710.0	-1.60	1 / 48	17.41	15.81	0.038	33.01	-17.20

Table 7-18. EIRP Data (NR Band n77(PC3) – DFT-s OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 157 of 221

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7.6.3 Antenna 4b – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	2310.0	0.00	1 / 49	23.00	23.00	0.200	23.98	-0.98
	16-QAM	2310.0	0.00	1 / 1	22.82	22.82	0.191	23.98	-1.16
	64-QAM	2310.0	0.00	1 / 1	21.69	21.69	0.148	23.98	-2.29
	256-QAM	2310.0	0.00	1 / 1	18.93	18.93	0.078	23.98	-5.05
5 MHz	QPSK	2307.5	0.00	1 / 1	22.97	22.97	0.198	23.98	-1.01
		2312.5	0.00	1 / 12	23.00	23.00	0.200	23.98	-0.98
	16-QAM	2312.5	0.00	1 / 12	23.00	23.00	0.200	23.98	-0.98
	64-QAM	2312.5	0.00	1 / 1	23.00	23.00	0.200	23.98	-0.98
	256-QAM	2307.5	0.00	1 / 24	20.22	20.22	0.105	23.98	-3.76
		2312.5	0.00	1 / 12	23.00	23.00	0.200	23.98	-0.98

Table 7-19. EIRP Data (LTE Band 30)

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2510.0	-1.40	1 / 50	25.16	23.76	0.238	33.01	-9.25
		2535.0	-1.40	1 / 99	24.68	23.28	0.213	33.01	-9.73
		2560.0	-1.40	1 / 99	25.20	23.80	0.240	33.01	-9.21
	16-QAM	2510.0	-1.40	1 / 50	24.45	23.05	0.202	33.01	-9.96
	64-QAM	2560.0	-1.40	1 / 99	23.89	22.49	0.177	33.01	-10.52
	256-QAM	2510.0	-1.40	100 / 0	21.17	19.77	0.095	33.01	-13.24
15 MHz	QPSK	2507.5	-1.40	1 / 37	25.20	23.80	0.240	33.01	-9.21
		2535.0	-1.40	1 / 74	24.99	23.59	0.229	33.01	-9.42
		2562.5	-1.40	1 / 74	25.18	23.78	0.239	33.01	-9.23
	16-QAM	2507.5	-1.40	1 / 37	24.55	23.15	0.207	33.01	-9.86
	64-QAM	2562.5	-1.40	1 / 74	24.10	22.70	0.186	33.01	-10.31
	256-QAM	2507.5	-1.40	75 / 0	21.18	19.78	0.095	33.01	-13.23
10 MHz	QPSK	2505.0	-1.40	1 / 25	25.20	23.80	0.240	33.01	-9.21
		2535.0	-1.40	1 / 49	25.12	23.72	0.236	33.01	-9.29
		2565.0	-1.40	1 / 49	24.50	23.10	0.204	33.01	-9.91
	16-QAM	2535.0	-1.40	1 / 1	24.41	23.01	0.200	33.01	-10.00
	64-QAM	2535.0	-1.40	1 / 25	23.82	22.42	0.175	33.01	-10.59
	256-QAM	2505.0	-1.40	50 / 0	21.27	19.87	0.097	33.01	-13.14
5 MHz	QPSK	2502.5	-1.40	1 / 12	24.62	23.22	0.210	33.01	-9.79
		2535.0	-1.40	1 / 12	24.68	23.28	0.213	33.01	-9.73
		2567.5	-1.40	1 / 12	24.83	23.43	0.220	33.01	-9.58
	16-QAM	2567.5	-1.40	1 / 12	24.21	22.81	0.191	33.01	-10.20
	64-QAM	2502.5	-1.40	25 / 0	23.60	22.20	0.166	33.01	-10.81
	256-QAM	2502.5	-1.40	1 / 12	21.30	19.90	0.098	33.01	-13.11

Table 7-20. EIRP Data (LTE Band 7)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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LTE Band 41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-1.40	1 / 50	27.07	25.67	0.369	33.01	-7.34
		2593.0	-1.40	1 / 50	27.02	25.62	0.365	33.01	-7.39
		2680.0	-1.40	1 / 50	27.00	25.60	0.363	33.01	-7.41
	16-QAM	2680.0	-1.40	1 / 50	26.49	25.09	0.323	33.01	-7.92
	64-QAM	2593.0	-1.40	1 / 99	25.87	24.47	0.280	33.01	-8.54
	256-QAM	2680.0	-1.40	1 / 99	23.78	22.38	0.173	33.01	-10.63
15 MHz	QPSK	2503.5	-1.40	1 / 74	27.05	25.65	0.367	33.01	-7.36
		2593.0	-1.40	1 / 74	27.05	25.65	0.367	33.01	-7.36
		2682.5	-1.40	1 / 74	26.93	25.53	0.357	33.01	-7.48
	16-QAM	2682.5	-1.40	1 / 74	26.41	25.01	0.317	33.01	-8.00
	64-QAM	2593.0	-1.40	1 / 74	25.42	24.02	0.252	33.01	-8.99
	256-QAM	2503.5	-1.40	1 / 74	24.08	22.68	0.185	33.01	-10.33
10 MHz	QPSK	2501.0	-1.40	1 / 49	27.09	25.69	0.371	33.01	-7.32
		2593.0	-1.40	1 / 49	27.03	25.63	0.366	33.01	-7.38
		2685.0	-1.40	1 / 49	27.07	25.67	0.369	33.01	-7.34
	16-QAM	2501.0	-1.40	1 / 25	26.58	25.18	0.330	33.01	-7.83
	64-QAM	2685.0	-1.40	1 / 49	25.32	23.92	0.247	33.01	-9.09
	256-QAM	2501.0	-1.40	1 / 49	23.62	22.22	0.167	33.01	-10.79
5 MHz	QPSK	2498.5	-1.40	1 / 24	27.20	25.80	0.380	33.01	-7.21
		2593.0	-1.40	1 / 12	26.46	25.06	0.321	33.01	-7.95
		2687.5	-1.40	1 / 12	26.59	25.19	0.330	33.01	-7.82
	16-QAM	2498.5	-1.40	1 / 24	26.09	24.69	0.294	33.01	-8.32
	64-QAM	2687.5	-1.40	25 / 0	25.57	24.17	0.261	33.01	-8.84
	256-QAM	2593.0	-1.40	1 / 24	23.63	22.23	0.167	33.01	-10.78

Table 7-21. EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-1.40	1 / 99	24.98	23.58	0.228	33.01	-9.43
		2593.0	-1.40	1 / 99	25.05	23.65	0.232	33.01	-9.36
		2680.0	-1.40	1 / 99	25.20	23.80	0.240	33.01	-9.21
	16-QAM	2593.0	-1.40	1 / 99	24.43	23.03	0.201	33.01	-9.98
	64-QAM	2680.0	-1.40	100 / 0	23.20	21.80	0.151	33.01	-11.21
	256-QAM	2680.0	-1.40	100 / 0	21.16	19.76	0.095	33.01	-13.25
15 MHz	QPSK	2503.5	-1.40	1 / 74	24.95	23.55	0.226	33.01	-9.46
		2593.0	-1.40	1 / 74	25.02	23.62	0.230	33.01	-9.39
		2682.5	-1.40	1 / 74	25.20	23.80	0.240	33.01	-9.21
	16-QAM	2682.5	-1.40	1 / 74	24.18	22.78	0.190	33.01	-10.23
	64-QAM	2682.5	-1.40	1 / 74	23.32	21.92	0.156	33.01	-11.09
	256-QAM	2593.0	-1.40	75 / 0	21.08	19.68	0.093	33.01	-13.33
10 MHz	QPSK	2501.0	-1.40	1 / 49	25.17	23.77	0.238	33.01	-9.24
		2593.0	-1.40	1 / 25	25.09	23.69	0.234	33.01	-9.32
		2685.0	-1.40	1 / 25	25.19	23.79	0.239	33.01	-9.22
	16-QAM	2501.0	-1.40	1 / 49	24.57	23.17	0.207	33.01	-9.84
	64-QAM	2685.0	-1.40	1 / 25	23.23	21.83	0.152	33.01	-11.18
	256-QAM	2685.0	-1.40	50 / 0	21.13	19.73	0.094	33.01	-13.28
5 MHz	QPSK	2498.5	-1.40	1 / 1	25.10	23.70	0.234	33.01	-9.31
		2593.0	-1.40	1 / 24	24.86	23.46	0.222	33.01	-9.55
		2687.5	-1.40	1 / 12	24.90	23.50	0.224	33.01	-9.51
	16-QAM	2593.0	-1.40	1 / 1	23.95	22.55	0.180	33.01	-10.46
	64-QAM	2593.0	-1.40	1 / 1	23.09	21.69	0.148	33.01	-11.32
	256-QAM	2687.5	-1.40	1 / 24	21.43	20.03	0.101	33.01	-12.98

Table 7-22. EIRP Data (LTE Band 41(PC3))

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ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC					SCC					ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]			
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset									
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	25.18	-1.40	23.78	0.239	33.01	-9.23			
				21100	2535.0	1	99		21298	2554.8	1	0	25.19	-1.40	23.79	0.239	33.01	-9.22			
				21350	2560.0	1	0		21152	2540.2	1	99	25.20	-1.40	23.80	0.240	33.01	-9.21			
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	22.82	-1.40	21.42	0.139	33.01	-11.59			
				20850	2510	100	0		16-QAM	21048	2529.8	100	0	21.94	-1.40	20.54	0.113	33.01	-12.47		
				64-QAM	20850	2510	100			0	64-QAM	21048	2529.8	100	0	21.90	-1.40	20.50	0.112	33.01	-12.51
				256-QAM	20850	2510	100			0		256-QAM	21048	2529.8	100	0	19.91	-1.40	18.51	0.071	33.01

Table 7-232. Conducted Power Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]				
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset		
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	27.49	-1.40	26.09	0.406	33.01	-6.92		
				40620	2593.0	1	99		40818	2612.8	1	0	27.47	-1.40	26.07	0.405	33.01	-6.94		
				41490	2680.0	1	0		41292	2660.2	1	99	27.49	-1.40	26.09	0.406	33.01	-6.92		
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	25.50	-1.40	24.10	0.257	33.01	-8.91		
				16-QAM	39750	2506	100		0	16-QAM	39948	2525.8	100	0	24.67	-1.40	23.27	0.212	33.01	-9.74
				64-QAM	39750	2506	100		0	64-QAM	39948	2525.8	100	0	24.72	-1.40	23.32	0.215	33.01	-9.69
				256-QAM	39750	2506	100		0	256-QAM	39948	2525.8	100	0	22.75	-1.40	21.35	0.136	33.01	-11.66

Table 7-233. Conducted Power Data (ULCA LTE Band 41(PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCATx Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency							UL # RB	UL RB Offset
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.20	-1.40	23.80	0.240	33.01	-9.21
				40620	2593.0	1	99		40818	2612.8	1	0	25.18	-1.40	23.78	0.239	33.01	-9.23
				41490	2680.0	1	0		41292	2660.2	99	41	25.19	-1.40	23.79	0.239	33.01	-9.22
				39750	2506	100	0		39948	2525.8	100	0	23.20	-1.40	21.80	0.151	33.01	-11.21
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	22.36	-1.40	20.96	0.125	33.01	-12.05
				39750	2506	100	0	64-QAM	39948	2525.8	100	0	22.32	-1.40	20.92	0.124	33.01	-12.09
				39750	2506	100	0	256-QAM	39948	2525.8	100	0	21.22	-1.40	19.82	0.096	33.01	-13.19
				39750	2506	100	0	256-QAM	39948	2525.8	100	0	21.22	-1.40	19.82	0.096	33.01	-13.19

Table 7-234. Conducted Power Data (ULCA LTE Band 41(PC3))

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NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.0	-0.70	1 / 135	23.47	22.77	0.189	33.01	-10.24
		2593.0	-0.70	1 / 135	23.36	22.66	0.184	33.01	-10.35
		2640.0	-0.70	1 / 258	23.48	22.78	0.190	33.01	-10.23
	QPSK	2546.0	-0.70	1 / 258	23.50	22.80	0.191	33.01	-10.21
		2593.0	-0.70	1 / 135	23.49	22.79	0.190	33.01	-10.22
		2640.0	-0.70	1 / 1	23.47	22.77	0.189	33.01	-10.24
	16-QAM	2640.0	-0.70	1 / 1	22.67	21.97	0.157	33.01	-11.05
	64-QAM	2640.0	-0.70	1 / 258	21.52	20.82	0.121	33.01	-12.19
90 MHz	$\pi/2$ BPSK	2593.0	-0.70	1 / 258	19.46	18.76	0.075	33.01	-14.25
		2541.0	-0.70	1 / 238	23.35	22.65	0.184	33.01	-10.36
		2593.0	-0.70	1 / 238	23.20	22.50	0.178	33.01	-10.51
	QPSK	2645.0	-0.70	1 / 120	23.47	22.77	0.189	33.01	-10.24
		2541.0	-0.70	1 / 238	23.22	22.52	0.179	33.01	-10.49
		2593.0	-0.70	1 / 238	23.50	22.80	0.191	33.01	-10.21
	16-QAM	2645.0	-0.70	1 / 1	23.48	22.78	0.190	33.01	-10.23
		2593.0	-0.70	1 / 238	22.43	21.73	0.149	33.01	-11.28
80 MHz	64-QAM	2645.0	-0.70	1 / 238	21.12	20.42	0.110	33.01	-12.59
		2645.0	-0.70	1 / 238	19.13	18.43	0.070	33.01	-14.58
		2536.0	-0.70	1 / 108	23.50	22.80	0.191	33.01	-10.21
	$\pi/2$ BPSK	2593.0	-0.70	1 / 214	23.43	22.73	0.188	33.01	-10.28
		2650.0	-0.70	1 / 1	23.45	22.75	0.188	33.01	-10.26
		2536.0	-0.70	1 / 214	23.46	22.76	0.189	33.01	-10.25
	QPSK	2593.0	-0.70	1 / 214	23.40	22.70	0.186	33.01	-10.31
		2650.0	-0.70	1 / 1	23.43	22.73	0.188	33.01	-10.28
60 MHz	16-QAM	2593.0	-0.70	1 / 108	21.36	20.66	0.116	33.01	-12.35
		2536.0	-0.70	1 / 214	19.22	18.52	0.071	33.01	-14.49
		2526.0	-0.70	1 / 81	23.32	22.62	0.183	33.01	-10.39
	$\pi/2$ BPSK	2593.0	-0.70	1 / 81	23.45	22.75	0.189	33.01	-10.26
		2660.0	-0.70	1 / 81	23.37	22.67	0.185	33.01	-10.34
		2526.0	-0.70	1 / 81	23.50	22.80	0.191	33.01	-10.21
	QPSK	2593.0	-0.70	1 / 81	23.42	22.72	0.187	33.01	-10.29
		2660.0	-0.70	1 / 162	23.32	22.62	0.183	33.01	-10.39
50 MHz	16-QAM	2593.0	-0.70	1 / 1	22.59	21.89	0.154	33.01	-11.12
		2593.0	-0.70	1 / 81	21.37	20.67	0.117	33.01	-12.34
		2593.0	-0.70	1 / 1	19.50	18.80	0.076	33.01	-14.21
	$\pi/2$ BPSK	2521.0	-0.70	1 / 64	23.48	22.78	0.190	33.01	-10.23
		2593.0	-0.70	1 / 1	23.46	22.76	0.189	33.01	-10.25
		2665.0	-0.70	1 / 126	23.42	22.72	0.187	33.01	-10.29
	QPSK	2521.0	-0.70	1 / 64	23.39	22.69	0.186	33.01	-10.32
		2593.0	-0.70	1 / 1	23.49	22.79	0.190	33.01	-10.22
40 MHz	16-QAM	2665.0	-0.70	1 / 126	23.50	22.80	0.191	33.01	-10.21
		2593.0	-0.70	1 / 1	22.72	22.02	0.159	33.01	-10.99
		2521.0	-0.70	1 / 64	21.42	20.72	0.118	33.01	-12.29
	$\pi/2$ BPSK	2665.0	-0.70	1 / 1	19.32	18.62	0.073	33.01	-14.39
		2516.0	-0.70	1 / 98	23.50	22.80	0.191	33.01	-10.21
		2593.0	-0.70	1 / 98	23.48	22.78	0.190	33.01	-10.23
	QPSK	2670.0	-0.70	1 / 50	23.18	22.48	0.177	33.01	-10.53
		2516.0	-0.70	1 / 98	23.48	22.78	0.190	33.01	-10.23
20 MHz	16-QAM	2593.0	-0.70	1 / 50	23.50	22.80	0.190	33.01	-10.21
		2670.0	-0.70	1 / 98	23.36	22.66	0.184	33.01	-10.35
		2670.0	-0.70	1 / 1	22.68	21.98	0.158	33.01	-11.03
	$\pi/2$ BPSK	2670.0	-0.70	1 / 1	21.44	20.74	0.119	33.01	-12.27
		2670.0	-0.70	1 / 1	19.24	18.54	0.071	33.01	-14.47
		2506.0	-0.70	1 / 25	23.20	22.50	0.178	33.01	-10.51
	QPSK	2593.0	-0.70	1 / 25	23.03	22.33	0.171	33.01	-10.68
		2680.0	-0.70	1 / 48	23.13	22.43	0.175	33.01	-10.58
		2506.0	-0.70	1 / 48	23.14	22.44	0.175	33.01	-10.57
20 MHz	16-QAM	2593.0	-0.70	1 / 48	22.98	22.28	0.169	33.01	-10.73
		2680.0	-0.70	1 / 48	23.08	22.38	0.173	33.01	-10.63
		2506.0	-0.70	1 / 48	22.57	21.87	0.154	33.01	-11.14
	64-QAM	2506.0	-0.70	1 / 48	21.50	20.80	0.120	33.01	-12.21
		2506.0	-0.70	1 / 48	18.96	18.26	0.067	33.01	-14.75
		2506.0	-0.70	1 / 48	18.96	18.26	0.067	33.01	-14.75
	256-QAM	2506.0	-0.70	1 / 48	18.96	18.26	0.067	33.01	-14.75
		2506.0	-0.70	1 / 48	18.96	18.26	0.067	33.01	-14.75

Table 7-23. EIRP Data (NR Band n41(PC2) – DFT-s OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 162 of 221

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NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.0	-0.70	1 / 135	21.88	21.18	0.131	33.01	-11.83
		2593.0	-0.70	1 / 258	21.89	21.19	0.132	33.01	-11.82
		2640.0	-0.70	1 / 258	22.20	21.50	0.141	33.01	-11.51
	QPSK	2546.0	-0.70	1 / 135	21.71	21.01	0.126	33.01	-12.00
		2593.0	-0.70	1 / 135	21.74	21.04	0.127	33.01	-11.97
		2640.0	-0.70	1 / 1	21.78	21.08	0.128	33.01	-11.93
	16-QAM	2593.0	-0.70	1 / 135	21.11	20.41	0.110	33.01	-12.60
	64-QAM	2546.0	-0.70	1 / 258	19.82	19.12	0.082	33.01	-13.89
90 MHz	$\pi/2$ BPSK	2640.0	-0.70	1 / 258	17.27	16.57	0.045	33.01	-16.44
		2541.0	-0.70	1 / 120	21.82	21.12	0.129	33.01	-11.89
		2593.0	-0.70	1 / 238	21.87	21.17	0.131	33.01	-11.84
	QPSK	2645.0	-0.70	1 / 1	21.74	21.04	0.127	33.01	-11.97
		2541.0	-0.70	1 / 238	21.53	20.83	0.121	33.01	-12.18
		2593.0	-0.70	1 / 238	21.64	20.94	0.124	33.01	-12.07
	16-QAM	2645.0	-0.70	1 / 238	22.19	21.49	0.141	33.01	-11.52
	64-QAM	2541.0	-0.70	1 / 238	21.18	20.48	0.112	33.01	-12.53
80 MHz	$\pi/2$ BPSK	2645.0	-0.70	1 / 238	19.72	19.02	0.080	33.01	-13.99
		2645.0	-0.70	1 / 238	17.28	16.58	0.045	33.01	-16.43
		2536.0	-0.70	1 / 214	21.77	21.07	0.128	33.01	-11.94
	QPSK	2593.0	-0.70	1 / 214	21.92	21.22	0.132	33.01	-11.79
		2650.0	-0.70	1 / 1	21.95	21.25	0.133	33.01	-11.76
		2536.0	-0.70	1 / 108	21.65	20.95	0.125	33.01	-12.06
	16-QAM	2593.0	-0.70	1 / 214	21.73	21.03	0.127	33.01	-11.98
	64-QAM	2650.0	-0.70	1 / 214	21.82	21.12	0.129	33.01	-11.89
60 MHz	$\pi/2$ BPSK	2536.0	-0.70	216 / 0	17.10	16.40	0.044	33.01	-16.61
		2526.0	-0.70	1 / 162	21.74	21.04	0.127	33.01	-11.97
		2593.0	-0.70	1 / 1	22.16	21.46	0.140	33.01	-11.55
	QPSK	2660.0	-0.70	1 / 81	21.89	21.19	0.132	33.01	-11.82
		2526.0	-0.70	1 / 81	21.86	21.16	0.131	33.01	-11.85
		2593.0	-0.70	1 / 81	21.69	20.99	0.126	33.01	-12.02
	16-QAM	2660.0	-0.70	1 / 162	21.82	21.12	0.130	33.01	-11.89
	64-QAM	2593.0	-0.70	1 / 1	21.45	20.75	0.119	33.01	-12.26
50 MHz	$\pi/2$ BPSK	2660.0	-0.70	1 / 162	19.81	19.11	0.081	33.01	-13.90
		2526.0	-0.70	162 / 0	17.06	16.36	0.043	33.01	-16.65
		2521.0	-0.70	1 / 64	21.66	20.96	0.125	33.01	-12.05
	QPSK	2593.0	-0.70	1 / 1	21.84	21.14	0.130	33.01	-11.87
		2665.0	-0.70	1 / 126	21.63	20.93	0.124	33.01	-12.08
		2521.0	-0.70	1 / 64	21.59	20.89	0.123	33.01	-12.12
	16-QAM	2593.0	-0.70	1 / 64	21.64	20.94	0.124	33.01	-12.07
	64-QAM	2665.0	-0.70	1 / 126	21.63	20.93	0.124	33.01	-12.08
40 MHz	$\pi/2$ BPSK	2665.0	-0.70	1 / 126	20.86	20.16	0.104	33.01	-12.85
		2521.0	-0.70	1 / 126	19.07	18.37	0.069	33.01	-14.64
		2665.0	-0.70	1 / 126	17.23	16.53	0.045	33.01	-16.48
	QPSK	2516.0	-0.70	1 / 50	21.42	20.72	0.118	33.01	-12.29
		2593.0	-0.70	1 / 1	21.46	20.76	0.119	33.01	-12.25
		2670.0	-0.70	1 / 50	21.48	20.78	0.120	33.01	-12.23
	16-QAM	2516.0	-0.70	1 / 98	21.39	20.69	0.117	33.01	-12.32
		2593.0	-0.70	1 / 1	21.47	20.77	0.119	33.01	-12.24
20 MHz	$\pi/2$ BPSK	2670.0	-0.70	1 / 98	21.67	20.97	0.125	33.01	-12.04
		2670.0	-0.70	1 / 98	21.20	20.50	0.112	33.01	-12.51
		2670.0	-0.70	1 / 98	19.24	18.54	0.072	33.01	-14.47
	QPSK	2670.0	-0.70	1 / 98	17.29	16.59	0.046	33.01	-16.42
		2506.0	-0.70	1 / 48	21.70	21.00	0.126	33.01	-12.01
		2593.0	-0.70	1 / 1	21.68	20.98	0.125	33.01	-12.03
	16-QAM	2680.0	-0.70	1 / 1	21.62	20.92	0.124	33.01	-12.09
		2506.0	-0.70	1 / 48	21.62	20.92	0.124	33.01	-12.09
20 MHz	$\pi/2$ BPSK	2593.0	-0.70	1 / 48	21.25	20.55	0.114	33.01	-12.46
		2680.0	-0.70	1 / 48	21.57	20.87	0.122	33.01	-12.14
		2593.0	-0.70	1 / 1	21.01	20.31	0.107	33.01	-12.70
	QPSK	2680.0	-0.70	1 / 48	19.11	18.41	0.069	33.01	-14.60
		2593.0	-0.70	1 / 48	19.11	18.41	0.069	33.01	-14.60
		2680.0	-0.70	1 / 1	17.25	16.55	0.045	33.01	-16.46
	16-QAM	2593.0	-0.70	1 / 48	19.11	18.41	0.069	33.01	-14.60
	64-QAM	2680.0	-0.70	1 / 1	17.25	16.55	0.045	33.01	-16.46

Table 7-24. EIRP Data (NR Band n41(PC3) – DFT-s OFDM)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 163 of 221

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7.6.4 Antenna 4a - EIRP

NR Band n77(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	3750.0	1.70	1 / 258	26.82	28.52	0.711	33.01	-4.49
		3840.0	1.70	1 / 135	26.78	28.48	0.705	33.01	-4.53
		3930.0	1.70	1 / 135	26.79	28.49	0.706	33.01	-4.52
	QPSK	3750.0	1.70	1 / 258	26.71	28.41	0.693	33.01	-4.60
		3840.0	1.70	1 / 135	26.72	28.42	0.695	33.01	-4.59
		3930.0	1.70	270 / 0	26.47	28.17	0.656	33.01	-4.84
	16-QAM	3840.0	1.70	1 / 135	25.89	27.59	0.574	33.01	-5.42
	64-QAM	3750.0	1.70	1 / 1	25.12	26.82	0.481	33.01	-6.19
	256-QAM	3840.0	1.70	1 / 1	23.17	24.87	0.307	33.01	-8.14
90 MHz	π/2 BPSK	3745.0	1.70	1 / 238	26.74	28.44	0.699	33.01	-4.57
		3840.0	1.70	1 / 238	26.87	28.57	0.720	33.01	-4.44
		3935.0	1.70	1 / 1	26.55	28.25	0.668	33.01	-4.76
	QPSK	3745.0	1.70	1 / 1	26.77	28.47	0.703	33.01	-4.54
		3840.0	1.70	1 / 238	26.66	28.36	0.685	33.01	-4.65
		3935.0	1.70	1 / 1	26.51	28.21	0.662	33.01	-4.80
	16-QAM	3840.0	1.70	1 / 238	25.67	27.37	0.545	33.01	-5.64
	64-QAM	3745.0	1.70	1 / 238	25.37	27.07	0.509	33.01	-5.94
	256-QAM	3840.0	1.70	1 / 238	23.35	25.05	0.320	33.01	-7.96
80 MHz	π/2 BPSK	3740.0	1.70	1 / 214	26.94	28.64	0.731	33.01	-4.37
		3840.0	1.70	1 / 214	26.77	28.47	0.703	33.01	-4.54
		3940.0	1.70	1 / 108	26.62	28.32	0.679	33.01	-4.69
	QPSK	3740.0	1.70	1 / 214	26.97	28.67	0.737	33.01	-4.34
		3840.0	1.70	1 / 1	26.92	28.62	0.729	33.01	-4.39
		3940.0	1.70	1 / 108	26.56	28.26	0.670	33.01	-4.75
	16-QAM	3840.0	1.70	1 / 1	25.90	27.60	0.576	33.01	-5.41
	64-QAM	3840.0	1.70	1 / 108	25.24	26.94	0.495	33.01	-6.07
	256-QAM	3840.0	1.70	1 / 108	23.21	24.91	0.310	33.01	-8.10
60 MHz	π/2 BPSK	3730.0	1.70	1 / 162	26.76	28.46	0.701	33.01	-4.55
		3840.0	1.70	1 / 81	26.95	28.65	0.733	33.01	-4.36
		3950.0	1.70	1 / 81	26.68	28.38	0.689	33.01	-4.63
	QPSK	3730.0	1.70	1 / 81	26.66	28.36	0.686	33.01	-4.65
		3840.0	1.70	1 / 81	27.00	28.70	0.741	33.01	-4.31
		3950.0	1.70	1 / 81	26.53	28.23	0.665	33.01	-4.79
	16-QAM	3730.0	1.70	1 / 81	25.94	27.64	0.581	33.01	-5.37
	64-QAM	3840.0	1.70	1 / 162	25.37	27.07	0.509	33.01	-5.94
	256-QAM	3730.0	1.70	1 / 162	23.34	25.04	0.319	33.01	-7.97
50 MHz	π/2 BPSK	3725.0	1.70	1 / 126	26.69	28.39	0.690	33.01	-4.62
		3840.0	1.70	1 / 64	26.88	28.58	0.721	33.01	-4.43
		3955.0	1.70	1 / 1	26.57	28.27	0.672	33.01	-4.74
	QPSK	3725.0	1.70	1 / 126	26.62	28.32	0.679	33.01	-4.69
		3840.0	1.70	1 / 126	26.90	28.60	0.724	33.01	-4.41
		3955.0	1.70	1 / 1	26.57	28.27	0.672	33.01	-4.74
	16-QAM	3725.0	1.70	1 / 126	26.14	27.84	0.608	33.01	-5.17
	64-QAM	3840.0	1.70	1 / 126	25.17	26.87	0.487	33.01	-6.14
	256-QAM	3725.0	1.70	1 / 126	23.29	24.99	0.316	33.01	-8.02
40 MHz	π/2 BPSK	3720.0	1.70	1 / 50	26.52	28.22	0.664	33.01	-4.79
		3840.0	1.70	1 / 50	26.89	28.59	0.722	33.01	-4.42
		3960.0	1.70	1 / 50	26.33	28.03	0.635	33.01	-4.98
	QPSK	3720.0	1.70	1 / 1	26.61	28.31	0.678	33.01	-4.70
		3840.0	1.70	1 / 1	26.51	28.21	0.662	33.01	-4.80
		3960.0	1.70	1 / 98	26.68	28.38	0.688	33.01	-4.63
	16-QAM	3840.0	1.70	1 / 1	26.29	27.99	0.629	33.01	-5.02
	64-QAM	3840.0	1.70	1 / 98	25.19	26.89	0.489	33.01	-6.12
	256-QAM	3720.0	1.70	1 / 1	23.26	24.96	0.313	33.01	-8.05
20 MHz	π/2 BPSK	3710.0	1.70	1 / 25	26.44	28.14	0.652	33.01	-4.87
		3840.0	1.70	1 / 25	26.68	28.38	0.688	33.01	-4.63
		3970.0	1.70	1 / 25	26.29	27.99	0.629	33.01	-5.02
	QPSK	3710.0	1.70	1 / 1	26.45	28.15	0.653	33.01	-4.86
		3840.0	1.70	1 / 1	26.55	28.25	0.668	33.01	-4.76
		3970.0	1.70	1 / 1	26.10	27.80	0.602	33.01	-5.21
	16-QAM	3840.0	1.70	1 / 1	25.64	27.34	0.543	33.01	-5.67
	64-QAM	3710.0	1.70	1 / 1	24.89	26.59	0.456	33.01	-6.42
	256-QAM	3840.0	1.70	1 / 1	23.37	25.07	0.321	33.01	-7.94

Table 7-25. EIRP Data (NR Band n77(PC2) – DFT-s OFDM)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 164 of 221

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NR Band n77(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.0	1.70	1 / 258	25.70	27.40	0.550	33.01	-5.61
		3840.0	1.70	270 / 0	25.69	27.39	0.548	33.01	-5.62
		3930.0	1.70	1 / 135	25.67	27.37	0.546	33.01	-5.64
	QPSK	3750.0	1.70	270 / 0	25.64	27.34	0.543	33.01	-5.67
		3840.0	1.70	1 / 258	25.61	27.31	0.539	33.01	-5.70
		3930.0	1.70	270 / 0	25.54	27.24	0.530	33.01	-5.77
90 MHz	$\pi/2$ BPSK	3750.0	1.70	1 / 135	24.85	26.55	0.452	33.01	-6.46
		3750.0	1.70	1 / 1	24.19	25.89	0.388	33.01	-7.12
		3840.0	1.70	1 / 1	22.49	24.19	0.263	33.01	-8.82
	QPSK	3745.0	1.70	1 / 1	25.66	27.36	0.544	33.01	-5.65
		3840.0	1.70	1 / 238	25.70	27.40	0.550	33.01	-5.61
		3935.0	1.70	1 / 1	25.62	27.32	0.539	33.01	-5.69
80 MHz	$\pi/2$ BPSK	3745.0	1.70	1 / 1	25.60	27.30	0.537	33.01	-5.71
		3840.0	1.70	240 / 0	25.63	27.33	0.541	33.01	-5.68
		3935.0	1.70	1 / 1	25.58	27.28	0.534	33.01	-5.73
	QPSK	3840.0	1.70	1 / 1	24.61	26.31	0.427	33.01	-6.70
		3745.0	1.70	1 / 238	24.44	26.14	0.411	33.01	-6.87
		3840.0	1.70	1 / 238	22.43	24.13	0.259	33.01	-8.88
60 MHz	$\pi/2$ BPSK	3740.0	1.70	1 / 214	25.67	27.37	0.545	33.01	-5.64
		3840.0	1.70	1 / 214	25.50	27.20	0.524	33.01	-5.81
		3940.0	1.70	1 / 108	25.69	27.39	0.548	33.01	-5.62
	QPSK	3740.0	1.70	1 / 214	25.70	27.40	0.550	33.01	-5.61
		3840.0	1.70	216 / 0	25.67	27.37	0.545	33.01	-5.64
		3940.0	1.70	1 / 108	25.63	27.33	0.540	33.01	-5.68
50 MHz	$\pi/2$ BPSK	3840.0	1.70	1 / 214	24.67	26.37	0.434	33.01	-6.64
		3840.0	1.70	216 / 0	24.16	25.86	0.385	33.01	-7.15
		3940.0	1.70	1 / 1	22.47	24.17	0.261	33.01	-8.84
	QPSK	3730.0	1.70	162 / 0	25.69	27.39	0.548	33.01	-5.62
		3840.0	1.70	162 / 0	25.70	27.40	0.549	33.01	-5.61
		3950.0	1.70	162 / 0	25.46	27.16	0.520	33.01	-5.85
40 MHz	$\pi/2$ BPSK	3730.0	1.70	162 / 0	25.64	27.34	0.542	33.01	-5.67
		3840.0	1.70	1 / 81	25.70	27.40	0.550	33.01	-5.61
		3950.0	1.70	1 / 81	25.60	27.30	0.536	33.01	-5.72
	QPSK	3730.0	1.70	1 / 1	24.91	26.61	0.458	33.01	-6.40
		3840.0	1.70	1 / 1	24.21	25.91	0.390	33.01	-7.10
		3950.0	1.70	1 / 162	22.57	24.27	0.267	33.01	-8.74
30 MHz	$\pi/2$ BPSK	3725.0	1.70	1 / 1	25.69	27.39	0.548	33.01	-5.62
		3840.0	1.70	1 / 64	25.68	27.38	0.547	33.01	-5.63
		3955.0	1.70	1 / 1	25.64	27.34	0.543	33.01	-5.67
	QPSK	3725.0	1.70	1 / 126	25.69	27.39	0.548	33.01	-5.62
		3840.0	1.70	1 / 126	25.70	27.40	0.550	33.01	-5.61
		3955.0	1.70	1 / 1	25.64	27.34	0.542	33.01	-5.67
20 MHz	$\pi/2$ BPSK	3725.0	1.70	1 / 126	25.21	26.91	0.491	33.01	-6.10
		3955.0	1.70	1 / 126	24.24	25.94	0.392	33.01	-7.07
		3725.0	1.70	1 / 126	22.61	24.31	0.270	33.01	-8.70
	QPSK	3720.0	1.70	1 / 50	25.59	27.29	0.536	33.01	-5.72
		3840.0	1.70	1 / 50	25.70	27.40	0.550	33.01	-5.61
		3960.0	1.70	1 / 50	25.40	27.10	0.513	33.01	-5.91
10 MHz	$\pi/2$ BPSK	3720.0	1.70	1 / 1	25.68	27.38	0.547	33.01	-5.63
		3840.0	1.70	1 / 1	25.58	27.28	0.534	33.01	-5.73
		3960.0	1.70	1 / 98	25.49	27.19	0.524	33.01	-5.82
	QPSK	3840.0	1.70	1 / 1	25.36	27.06	0.508	33.01	-5.95
		3840.0	1.70	1 / 98	24.26	25.96	0.395	33.01	-7.05
		3720.0	1.70	1 / 1	22.58	24.28	0.268	33.01	-8.73
5 MHz	$\pi/2$ BPSK	3710.0	1.70	1 / 1	25.39	27.09	0.511	33.01	-5.92
		3840.0	1.70	1 / 25	25.40	27.10	0.513	33.01	-5.91
		3970.0	1.70	1 / 1	25.39	27.09	0.511	33.01	-5.92
	QPSK	3710.0	1.70	1 / 25	25.38	27.08	0.510	33.01	-5.93
		3840.0	1.70	1 / 1	25.27	26.97	0.498	33.01	-6.04
		3970.0	1.70	1 / 25	25.37	27.07	0.510	33.01	-5.94
2.5 MHz	QPSK	3710.0	1.70	1 / 25	24.57	26.27	0.424	33.01	-6.74
		3970.0	1.70	1 / 25	24.02	25.72	0.373	33.01	-7.29
1.25 MHz	QPSK	3710.0	1.70	1 / 25	22.46	24.16	0.260	33.01	-8.85

Table 7-26. EIRP Data (NR Band n77(PC3) – DFT-s OFDM)

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7.6.5 Antenna 2b – EIRP

LTE Band 30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	2310.0	1.20	1 / 49	19.75	20.95	0.124	23.98	-3.03
	16-QAM	2310.0	1.20	1 / 25	17.18	18.38	0.069	23.98	-5.60
	64-QAM	2310.0	1.20	1 / 25	17.16	18.36	0.069	23.98	-5.62
	256-QAM	2310.0	1.20	1 / 25	17.19	18.39	0.069	23.98	-5.59
5 MHz	QPSK	2307.5	1.20	1 / 24	19.90	21.10	0.129	23.98	-2.88
		2312.5	1.20	1 / 24	19.75	20.95	0.124	23.98	-3.03
	16-QAM	2307.5	1.20	1 / 24	19.77	20.97	0.125	23.98	-3.01
	64-QAM	2312.5	1.20	1 / 24	19.75	20.95	0.124	23.98	-3.03
	256-QAM	2312.5	1.20	1 / 24	19.74	20.94	0.124	23.98	-3.04

Table 7-27. EIRP Data (LTE Band 30)

LTE Band 7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2510.0	-0.80	1 / 1	21.62	20.82	0.121	33.01	-12.19
		2535.0	-0.80	1 / 1	21.70	20.90	0.123	33.01	-12.11
		2560.0	-0.80	1 / 1	21.90	21.10	0.129	33.01	-11.91
	16-QAM	2560.0	-0.80	1 / 1	21.56	20.76	0.119	33.01	-12.25
	64-QAM	2560.0	-0.80	1 / 1	20.80	20.00	0.100	33.01	-13.01
	256-QAM	2560.0	-0.80	1 / 99	19.10	18.30	0.068	33.01	-14.71
15 MHz	QPSK	2507.5	-0.80	1 / 1	21.62	20.82	0.121	33.01	-12.19
		2535.0	-0.80	1 / 1	21.75	20.95	0.124	33.01	-12.06
		2562.5	-0.80	1 / 1	21.90	21.10	0.129	33.01	-11.91
	16-QAM	2507.5	-0.80	1 / 1	21.12	20.32	0.108	33.01	-12.69
	64-QAM	2507.5	-0.80	1 / 1	20.23	19.43	0.088	33.01	-13.58
	256-QAM	2507.5	-0.80	1 / 1	18.51	17.71	0.059	33.01	-15.30
10 MHz	QPSK	2505.0	-0.80	1 / 1	21.49	20.69	0.117	33.01	-12.32
		2535.0	-0.80	1 / 49	21.90	21.10	0.129	33.01	-11.91
		2565.0	-0.80	1 / 25	21.85	21.05	0.127	33.01	-11.96
	16-QAM	2535.0	-0.80	1 / 25	21.34	20.54	0.113	33.01	-12.47
	64-QAM	2535.0	-0.80	1 / 1	20.48	19.68	0.093	33.01	-13.33
	256-QAM	2535.0	-0.80	1 / 1	18.79	17.99	0.063	33.01	-15.02
5 MHz	QPSK	2502.5	-0.80	1 / 24	21.65	20.85	0.122	33.01	-12.16
		2535.0	-0.80	1 / 1	21.90	21.10	0.129	33.01	-11.91
		2567.5	-0.80	1 / 12	21.70	20.90	0.123	33.01	-12.11
	16-QAM	2535.0	-0.80	1 / 1	21.49	20.69	0.117	33.01	-12.32
	64-QAM	2535.0	-0.80	1 / 1	20.68	19.88	0.097	33.01	-13.13
	256-QAM	2535.0	-0.80	1 / 12	18.12	17.32	0.054	33.01	-15.69

Table 7-28. EIRP Data (LTE Band 7)

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LTE Band 41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-0.70	1 / 99	23.80	23.10	0.204	33.01	-9.91
		2593.0	-0.70	1 / 50	23.90	23.20	0.209	33.01	-9.81
		2680.0	-0.70	1 / 50	23.86	23.16	0.207	33.01	-9.85
	16-QAM	2680.0	-0.70	1 / 50	23.09	22.39	0.173	33.01	-10.62
	64-QAM	2593.0	-0.70	1 / 99	22.05	21.35	0.136	33.01	-11.66
	256-QAM	2506.0	-0.70	1 / 50	19.63	18.93	0.078	33.01	-14.08
15 MHz	QPSK	2503.5	-0.70	1 / 37	23.86	23.16	0.207	33.01	-9.85
		2593.0	-0.70	1 / 37	23.90	23.20	0.209	33.01	-9.81
		2682.5	-0.70	1 / 74	23.85	23.15	0.207	33.01	-9.86
	16-QAM	2682.5	-0.70	1 / 74	23.07	22.37	0.173	33.01	-10.64
	64-QAM	2682.5	-0.70	1 / 74	21.91	21.21	0.132	33.01	-11.80
	256-QAM	2593.0	-0.70	75 / 0	19.68	18.98	0.079	33.01	-14.03
10 MHz	QPSK	2501.0	-0.70	1 / 25	23.90	23.20	0.209	33.01	-9.81
		2593.0	-0.70	1 / 25	23.82	23.12	0.205	33.01	-9.89
		2685.0	-0.70	1 / 1	23.77	23.07	0.203	33.01	-9.94
	16-QAM	2685.0	-0.70	1 / 25	22.99	22.29	0.169	33.01	-10.72
	64-QAM	2501.0	-0.70	1 / 49	21.87	21.17	0.131	33.01	-11.84
	256-QAM	2593.0	-0.70	50 / 0	19.69	18.99	0.079	33.01	-14.02
5 MHz	QPSK	2498.5	-0.70	1 / 24	23.90	23.20	0.209	33.01	-9.81
		2593.0	-0.70	1 / 12	23.05	22.35	0.172	33.01	-10.66
		2687.5	-0.70	25 / 0	23.21	22.51	0.178	33.01	-10.50
	16-QAM	2687.5	-0.70	1 / 12	23.20	22.50	0.178	33.01	-10.51
	64-QAM	2687.5	-0.70	25 / 0	23.20	22.50	0.178	33.01	-10.51
	256-QAM	2593.0	-0.70	1 / 12	20.49	19.79	0.095	33.01	-13.22

Table 7-29. EIRP Data (LTE Band 41(PC2))

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LTE Band 41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	-0.70	1 / 99	21.80	21.10	0.129	33.01	-11.91
		2593.0	-0.70	1 / 50	21.90	21.20	0.132	33.01	-11.81
		2680.0	-0.70	1 / 50	21.86	21.16	0.131	33.01	-11.85
	16-QAM	2680.0	-0.70	1 / 50	21.09	20.39	0.109	33.01	-12.62
	64-QAM	2593.0	-0.70	1 / 99	20.05	19.35	0.086	33.01	-13.66
	256-QAM	2506.0	-0.70	1 / 50	17.63	16.93	0.049	33.01	-16.08
15 MHz	QPSK	2503.5	-0.70	1 / 37	21.82	21.12	0.129	33.01	-11.89
		2593.0	-0.70	1 / 37	21.86	21.16	0.131	33.01	-11.85
		2682.5	-0.70	1 / 74	21.81	21.11	0.129	33.01	-11.90
	16-QAM	2682.5	-0.70	1 / 74	21.03	20.33	0.108	33.01	-12.68
	64-QAM	2682.5	-0.70	1 / 74	19.87	19.17	0.083	33.01	-13.84
	256-QAM	2593.0	-0.70	75 / 0	17.64	16.94	0.049	33.01	-16.07
10 MHz	QPSK	2501.0	-0.70	1 / 25	21.90	21.20	0.132	33.01	-11.81
		2593.0	-0.70	1 / 25	21.82	21.12	0.129	33.01	-11.89
		2685.0	-0.70	1 / 1	21.77	21.07	0.128	33.01	-11.94
	16-QAM	2685.0	-0.70	1 / 25	20.99	20.29	0.107	33.01	-12.72
	64-QAM	2501.0	-0.70	1 / 49	19.87	19.17	0.083	33.01	-13.84
	256-QAM	2593.0	-0.70	50 / 0	17.69	16.99	0.050	33.01	-16.02
5 MHz	QPSK	2498.5	-0.70	1 / 24	21.65	20.95	0.124	33.01	-12.06
		2593.0	-0.70	1 / 12	20.55	19.85	0.097	33.01	-13.16
		2687.5	-0.70	25 / 0	20.71	20.01	0.100	33.01	-13.00
	16-QAM	2687.5	-0.70	1 / 12	19.87	19.17	0.083	33.01	-13.84
	64-QAM	2687.5	-0.70	25 / 0	19.04	18.34	0.068	33.01	-14.67
	256-QAM	2498.5	-0.70	1 / 24	17.18	16.48	0.044	33.01	-16.53

Table 7-30. EIRP Data (LTE Band 41(PC3))

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ULCA LTE Band 7

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCATx Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset				
Max	LTE B7	20MHz + 20MHz	QPSK	20850	2510.0	1	99	QPSK	21048	2529.8	1	0	21.90	-0.80	21.10	0.129
				21100	2535.0	1	99		21298	2554.8	1	0	21.89	-0.80	21.09	0.129
				21350	2560.0	1	0		21152	2540.2	1	99	21.78	-0.80	20.98	0.125
				20850	2510	100	0		21048	2529.8	100	0	19.90	-0.80	19.10	0.081
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	18.99	-0.80	18.19	0.066
				20850	2510	100	0		21048	2529.8	100	0	18.95	-0.80	18.15	0.065
				20850	2510	100	0		21048	2529.8	100	0	16.68	-0.80	15.88	0.039
				20850	2510	100	0		21048	2529.8	100	0	16.68	-0.80	15.88	0.039

Table 7-235. Conducted Power Data (ULCA LTE Band 7)

ULCA LTE Band 41(PC2)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCATx Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset				
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	24.20	-0.70	23.50	0.224
				40620	2593.0	1	99		40818	2612.8	1	0	24.18	-0.70	23.48	0.223
				41490	2680.0	1	0		41292	2660.2	1	99	24.20	-0.70	23.50	0.224
				39750	2506	100	0		39948	2525.8	100	0	22.20	-0.70	21.50	0.141
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	21.38	-0.70	20.68	0.117
				39750	2506	100	0		39948	2525.8	100	0	21.29	-0.70	20.59	0.115
				39750	2506	100	0		39948	2525.8	100	0	19.45	-0.70	18.75	0.075
				39750	2506	100	0		39948	2525.8	100	0	19.45	-0.70	18.75	0.075

Table 7-236. Conducted Power Data (ULCA LTE Band 41(PC2))

ULCA LTE Band 41(PC3)

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCATx Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset				
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	21.90	-0.70	21.20	0.132
				40620	2593.0	1	99		40818	2612.8	1	0	21.83	-0.70	21.13	0.130
				41490	2680.0	1	0		41292	2660.2	1	99	21.90	-0.70	21.20	0.132
				39750	2506	100	0		39948	2525.8	100	0	19.90	-0.70	19.20	0.083
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	18.99	-0.70	18.29	0.067
				39750	2506	100	0		39948	2525.8	100	0	18.91	-0.70	18.21	0.066
				39750	2506	100	0		39948	2525.8	100	0	17.12	-0.70	16.42	0.044
				39750	2506	100	0		39948	2525.8	100	0	17.12	-0.70	16.42	0.044

Table 7-237. Conducted Power Data (ULCA LTE Band 41(PC3))

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NR Band n41(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	2546.0	-1.40	1 / 258	26.37	24.97	0.314	33.01	-8.05
		2593.0	-1.40	270 / 0	26.47	25.07	0.322	33.01	-7.94
		2640.0	-1.40	1 / 135	26.49	25.09	0.323	33.01	-7.92
	QPSK	2546.0	-1.40	1 / 258	26.18	24.78	0.301	33.01	-8.23
		2593.0	-1.40	270 / 0	26.47	25.07	0.321	33.01	-7.94
		2640.0	-1.40	1 / 1	26.50	25.10	0.324	33.01	-7.91
	16-QAM	2593.0	-1.40	1 / 135	25.91	24.51	0.282	33.01	-8.50
	64-QAM	2593.0	-1.40	1 / 258	25.02	23.62	0.230	33.01	-9.39
256-QAM	2593.0	-1.40	1 / 258	23.14	21.74	0.149	33.01	-11.27	
90 MHz	π/2 BPSK	2541.0	-1.40	1 / 120	26.44	25.04	0.319	33.01	-7.97
		2593.0	-1.40	1 / 120	26.50	25.10	0.323	33.01	-7.91
		2645.0	-1.40	1 / 238	26.50	25.10	0.324	33.01	-7.91
	QPSK	2541.0	-1.40	1 / 120	26.31	24.91	0.310	33.01	-8.10
		2593.0	-1.40	1 / 120	26.30	24.90	0.309	33.01	-8.11
		2645.0	-1.40	1 / 238	26.18	24.78	0.301	33.01	-8.23
	16-QAM	2645.0	-1.40	1 / 1	25.74	24.34	0.272	33.01	-8.67
	64-QAM	2541.0	-1.40	1 / 120	24.89	23.49	0.223	33.01	-9.52
	256-QAM	2541.0	-1.40	1 / 120	22.85	21.45	0.139	33.01	-11.56
80 MHz	π/2 BPSK	2536.0	-1.40	1 / 214	26.23	24.83	0.304	33.01	-8.18
		2593.0	-1.40	1 / 108	26.26	24.86	0.307	33.01	-8.15
		2650.0	-1.40	1 / 1	26.43	25.03	0.318	33.01	-7.98
	QPSK	2536.0	-1.40	1 / 214	26.46	25.06	0.321	33.01	-7.95
		2593.0	-1.40	1 / 214	26.47	25.07	0.322	33.01	-7.94
		2650.0	-1.40	1 / 214	26.50	25.10	0.324	33.01	-7.91
	16-QAM	2650.0	-1.40	1 / 1	26.09	24.69	0.295	33.01	-8.32
	64-QAM	2536.0	-1.40	1 / 214	25.57	24.17	0.261	33.01	-8.84
256-QAM	2593.0	-1.40	1 / 214	23.37	21.97	0.157	33.01	-11.04	
60 MHz	π/2 BPSK	2526.0	-1.40	1 / 162	26.38	24.98	0.315	33.01	-8.03
		2593.0	-1.40	1 / 81	26.50	25.10	0.324	33.01	-7.91
		2660.0	-1.40	162 / 0	26.44	25.04	0.319	33.01	-7.97
	QPSK	2526.0	-1.40	1 / 81	26.41	25.01	0.317	33.01	-8.00
		2593.0	-1.40	162 / 0	26.43	25.03	0.319	33.01	-7.98
		2660.0	-1.40	162 / 0	26.45	25.05	0.320	33.01	-7.96
	16-QAM	2660.0	-1.40	1 / 81	25.95	24.55	0.285	33.01	-8.46
	64-QAM	2526.0	-1.40	1 / 162	25.31	23.91	0.246	33.01	-9.10
256-QAM	2526.0	-1.40	1 / 162	23.30	21.90	0.155	33.01	-11.11	
50 MHz	π/2 BPSK	2521.0	-1.40	1 / 126	26.41	25.01	0.317	33.01	-8.00
		2593.0	-1.40	128 / 0	26.38	24.98	0.315	33.01	-8.03
		2665.0	-1.40	1 / 126	26.49	25.09	0.323	33.01	-7.92
	QPSK	2521.0	-1.40	1 / 64	26.50	25.10	0.324	33.01	-7.91
		2593.0	-1.40	128 / 0	26.37	24.97	0.314	33.01	-8.04
		2665.0	-1.40	1 / 1	26.47	25.07	0.322	33.01	-7.94
	16-QAM	2521.0	-1.40	1 / 126	25.95	24.55	0.285	33.01	-8.46
	64-QAM	2593.0	-1.40	1 / 64	25.08	23.68	0.233	33.01	-9.33
256-QAM	2665.0	-1.40	1 / 1	23.51	22.11	0.163	33.01	-10.90	
40 MHz	π/2 BPSK	2516.0	-1.40	1 / 50	26.39	24.99	0.315	33.01	-8.02
		2593.0	-1.40	100 / 0	26.42	25.02	0.317	33.01	-7.99
		2670.0	-1.40	1 / 98	26.50	25.10	0.324	33.01	-7.91
	QPSK	2516.0	-1.40	1 / 98	26.45	25.05	0.320	33.01	-7.96
		2593.0	-1.40	100 / 0	26.38	24.98	0.315	33.01	-8.03
		2670.0	-1.40	100 / 0	26.39	24.99	0.315	33.01	-8.03
	16-QAM	2670.0	-1.40	1 / 98	25.76	24.36	0.273	33.01	-8.65
	64-QAM	2593.0	-1.40	1 / 98	25.09	23.69	0.234	33.01	-9.32
256-QAM	2670.0	-1.40	1 / 98	23.09	21.69	0.147	33.01	-11.32	
20 MHz	π/2 BPSK	2506.0	-1.40	1 / 48	26.04	24.64	0.291	33.01	-8.37
		2593.0	-1.40	1 / 25	26.08	24.68	0.294	33.01	-8.33
		2680.0	-1.40	1 / 48	26.01	24.61	0.289	33.01	-8.40
	QPSK	2506.0	-1.40	1 / 25	26.02	24.62	0.289	33.01	-8.40
		2593.0	-1.40	1 / 1	26.02	24.62	0.290	33.01	-8.39
		2680.0	-1.40	1 / 1	26.20	24.80	0.302	33.01	-8.21
	16-QAM	2593.0	-1.40	1 / 1	25.94	24.54	0.284	33.01	-8.47
	64-QAM	2593.0	-1.40	1 / 1	25.05	23.65	0.232	33.01	-9.36
256-QAM	2593.0	-1.40	1 / 1	23.35	21.95	0.157	33.01	-11.06	

Table 7-31. EIRP Data (NR Band n41(PC2) – DFT-s OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 170 of 221

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NR Band n41(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.0	-1.40	1 / 135	24.94	23.54	0.226	33.01	-9.47
		2593.0	-1.40	1 / 258	25.01	23.61	0.230	33.01	-9.40
		2640.0	-1.40	1 / 135	24.90	23.50	0.224	33.01	-9.51
	QPSK	2546.0	-1.40	1 / 258	24.79	23.39	0.218	33.01	-9.62
		2593.0	-1.40	1 / 258	25.01	23.61	0.229	33.01	-9.40
		2640.0	-1.40	1 / 135	24.99	23.59	0.228	33.01	-9.42
	16-QAM	2640.0	-1.40	1 / 258	23.76	22.36	0.172	33.01	-10.65
90 MHz	$\pi/2$ BPSK	2541.0	-1.40	1 / 238	25.10	23.70	0.234	33.01	-9.31
		2593.0	-1.40	1 / 238	25.04	23.64	0.231	33.01	-9.37
		2645.0	-1.40	1 / 238	25.20	23.80	0.240	33.01	-9.21
	QPSK	2541.0	-1.40	1 / 238	24.79	23.39	0.218	33.01	-9.62
		2593.0	-1.40	1 / 120	24.65	23.25	0.211	33.01	-9.76
		2645.0	-1.40	1 / 1	25.09	23.69	0.234	33.01	-9.32
	16-QAM	2593.0	-1.40	1 / 238	23.87	22.47	0.177	33.01	-10.54
	64-QAM	2593.0	-1.40	240 / 0	22.37	20.97	0.125	33.01	-12.04
	256-QAM	2593.0	-1.40	1 / 238	20.37	18.97	0.079	33.01	-14.04
80 MHz	$\pi/2$ BPSK	2536.0	-1.40	1 / 214	24.96	23.56	0.227	33.01	-9.45
		2593.0	-1.40	1 / 108	24.84	23.44	0.221	33.01	-9.57
		2650.0	-1.40	1 / 214	25.02	23.62	0.230	33.01	-9.39
	QPSK	2536.0	-1.40	1 / 108	24.79	23.39	0.218	33.01	-9.62
		2593.0	-1.40	1 / 108	24.76	23.36	0.217	33.01	-9.65
		2650.0	-1.40	1 / 214	24.89	23.49	0.223	33.01	-9.52
	16-QAM	2593.0	-1.40	1 / 214	23.75	22.35	0.172	33.01	-10.66
	256-QAM	2650.0	-1.40	1 / 108	22.54	21.14	0.130	33.01	-11.87
60 MHz	$\pi/2$ BPSK	2526.0	-1.40	1 / 162	24.99	23.59	0.229	33.01	-9.42
		2593.0	-1.40	1 / 81	24.77	23.37	0.217	33.01	-9.64
		2660.0	-1.40	1 / 162	25.16	23.76	0.238	33.01	-9.25
	QPSK	2526.0	-1.40	1 / 81	24.88	23.48	0.223	33.01	-9.53
		2593.0	-1.40	1 / 162	25.00	23.60	0.229	33.01	-9.41
		2660.0	-1.40	1 / 81	24.79	23.39	0.218	33.01	-9.62
	16-QAM	2660.0	-1.40	1 / 162	24.09	22.69	0.186	33.01	-10.32
	64-QAM	2660.0	-1.40	162 / 0	22.33	20.93	0.124	33.01	-12.08
	256-QAM	2660.0	-1.40	1 / 162	20.34	18.94	0.078	33.01	-14.07
50 MHz	$\pi/2$ BPSK	2521.0	-1.40	1 / 126	24.73	23.33	0.215	33.01	-9.68
		2593.0	-1.40	1 / 126	24.99	23.59	0.229	33.01	-9.42
		2665.0	-1.40	1 / 1	24.91	23.51	0.224	33.01	-9.50
	QPSK	2521.0	-1.40	1 / 126	24.64	23.24	0.211	33.01	-9.77
		2593.0	-1.40	1 / 126	24.84	23.44	0.221	33.01	-9.57
		2665.0	-1.40	1 / 126	24.83	23.43	0.221	33.01	-9.58
	16-QAM	2593.0	-1.40	1 / 126	23.93	22.53	0.179	33.01	-10.48
	256-QAM	2593.0	-1.40	1 / 1	22.49	21.09	0.129	33.01	-11.92
40 MHz	$\pi/2$ BPSK	2516.0	-1.40	1 / 98	24.53	23.13	0.206	33.01	-9.88
		2593.0	-1.40	1 / 1	24.89	23.49	0.223	33.01	-9.52
		2670.0	-1.40	1 / 98	25.15	23.75	0.237	33.01	-9.26
	QPSK	2516.0	-1.40	1 / 98	24.65	23.25	0.211	33.01	-9.77
		2593.0	-1.40	1 / 1	25.00	23.60	0.229	33.01	-9.41
		2670.0	-1.40	1 / 1	25.02	23.62	0.230	33.01	-9.39
	16-QAM	2670.0	-1.40	1 / 98	23.77	22.37	0.173	33.01	-10.64
	64-QAM	2670.0	-1.40	1 / 98	22.51	21.11	0.129	33.01	-11.90
	256-QAM	2670.0	-1.40	1 / 1	20.60	19.20	0.083	33.01	-13.81
20 MHz	$\pi/2$ BPSK	2506.0	-1.40	1 / 25	24.76	23.36	0.217	33.01	-9.65
		2593.0	-1.40	1 / 1	24.75	23.35	0.217	33.01	-9.66
		2680.0	-1.40	1 / 25	24.90	23.50	0.224	33.01	-9.51
	QPSK	2506.0	-1.40	1 / 48	24.79	23.39	0.218	33.01	-9.62
		2593.0	-1.40	1 / 1	24.83	23.43	0.220	33.01	-9.58
		2680.0	-1.40	1 / 48	24.74	23.34	0.216	33.01	-9.67
	16-QAM	2593.0	-1.40	1 / 1	23.77	22.37	0.173	33.01	-10.64
	256-QAM	2680.0	-1.40	1 / 1	22.54	21.14	0.130	33.01	-11.87

Table 7-32. EIRP Data (NR Band n41(PC3) – DFT-s OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 171 of 221

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7.6.6 Antenna 2a - EIRP

NR Band n77(PC2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	3750.0	-0.80	1 / 258	23.59	22.79	0.190	33.01	-10.22
		3840.0	-0.80	1 / 135	23.62	22.82	0.191	33.01	-10.19
		3930.0	-0.80	1 / 1	23.71	22.91	0.195	33.01	-10.10
	QPSK	3750.0	-0.80	1 / 1	23.73	22.93	0.196	33.01	-10.08
		3840.0	-0.80	1 / 258	24.00	23.20	0.209	33.01	-9.81
		3930.0	-0.80	1 / 1	23.88	23.08	0.203	33.01	-9.93
	16-QAM	3930.0	-0.80	1 / 1	22.92	22.12	0.163	33.01	-10.89
	256-QAM	3930.0	-0.80	1 / 1	21.48	20.68	0.117	33.01	-12.34
90 MHz	π/2 BPSK	3745.0	-0.80	1 / 1	23.50	22.70	0.186	33.01	-10.31
		3840.0	-0.80	1 / 120	23.63	22.83	0.192	33.01	-10.18
		3935.0	-0.80	1 / 238	23.49	22.69	0.186	33.01	-10.32
	QPSK	3745.0	-0.80	1 / 238	23.39	22.59	0.181	33.01	-10.42
		3840.0	-0.80	1 / 120	23.78	22.98	0.199	33.01	-10.03
		3935.0	-0.80	1 / 1	23.47	22.67	0.185	33.01	-10.34
	16-QAM	3840.0	-0.80	1 / 120	22.67	21.87	0.154	33.01	-11.14
	64-QAM	3935.0	-0.80	1 / 238	21.08	20.28	0.107	33.01	-12.73
	256-QAM	3745.0	-0.80	1 / 120	19.34	18.54	0.071	33.01	-14.47
	256-QAM	3840.0	-0.80	1 / 120	19.34	18.54	0.071	33.01	-14.47
80 MHz	π/2 BPSK	3740.0	-0.80	1 / 1	23.30	22.50	0.178	33.01	-10.51
		3840.0	-0.80	1 / 108	23.56	22.76	0.189	33.01	-10.25
		3940.0	-0.80	1 / 108	23.22	22.42	0.175	33.01	-10.59
	QPSK	3740.0	-0.80	1 / 1	23.59	22.79	0.190	33.01	-10.22
		3840.0	-0.80	1 / 108	23.69	22.89	0.195	33.01	-10.12
		3940.0	-0.80	1 / 214	23.45	22.65	0.184	33.01	-10.36
	16-QAM	3840.0	-0.80	1 / 108	22.69	21.89	0.155	33.01	-11.12
	64-QAM	3840.0	-0.80	1 / 108	21.13	20.33	0.108	33.01	-12.68
	256-QAM	3840.0	-0.80	1 / 214	19.15	18.35	0.068	33.01	-14.66
	256-QAM	3840.0	-0.80	1 / 214	19.15	18.35	0.068	33.01	-14.66
60 MHz	π/2 BPSK	3730.0	-0.80	1 / 1	23.21	22.41	0.174	33.01	-10.60
		3840.0	-0.80	1 / 81	23.35	22.55	0.180	33.01	-10.46
		3950.0	-0.80	1 / 81	23.36	22.56	0.180	33.01	-10.45
	QPSK	3730.0	-0.80	1 / 162	23.53	22.73	0.187	33.01	-10.28
		3840.0	-0.80	1 / 162	23.52	22.72	0.187	33.01	-10.29
		3950.0	-0.80	1 / 162	23.70	22.90	0.195	33.01	-10.11
	16-QAM	3840.0	-0.80	1 / 81	22.71	21.91	0.155	33.01	-11.10
	64-QAM	3730.0	-0.80	1 / 1	21.19	20.39	0.109	33.01	-12.62
	256-QAM	3840.0	-0.80	1 / 162	19.07	18.27	0.067	33.01	-14.74
	256-QAM	3840.0	-0.80	1 / 162	19.07	18.27	0.067	33.01	-14.74
50 MHz	π/2 BPSK	3725.0	-0.80	1 / 64	23.51	22.71	0.187	33.01	-10.30
		3840.0	-0.80	1 / 126	23.86	23.06	0.202	33.01	-9.95
		3955.0	-0.80	1 / 1	23.51	22.71	0.187	33.01	-10.30
	QPSK	3725.0	-0.80	1 / 126	23.51	22.71	0.187	33.01	-10.30
		3840.0	-0.80	1 / 126	23.93	23.13	0.206	33.01	-9.88
		3955.0	-0.80	1 / 126	23.60	22.80	0.191	33.01	-10.21
	16-QAM	3840.0	-0.80	1 / 126	23.15	22.35	0.172	33.01	-10.66
	64-QAM	3840.0	-0.80	1 / 64	21.56	20.76	0.119	33.01	-12.25
	256-QAM	3840.0	-0.80	1 / 1	19.21	18.41	0.069	33.01	-14.60
	256-QAM	3840.0	-0.80	1 / 1	19.21	18.41	0.069	33.01	-14.60
40 MHz	π/2 BPSK	3720.0	-0.80	1 / 1	23.76	22.96	0.198	33.01	-10.05
		3840.0	-0.80	1 / 98	24.00	23.20	0.209	33.01	-9.81
		3960.0	-0.80	1 / 98	23.54	22.74	0.188	33.01	-10.27
	QPSK	3720.0	-0.80	1 / 50	23.58	22.78	0.190	33.01	-10.23
		3840.0	-0.80	1 / 98	23.87	23.07	0.203	33.01	-9.94
		3960.0	-0.80	1 / 98	23.57	22.77	0.189	33.01	-10.24
	16-QAM	3840.0	-0.80	1 / 1	23.14	22.34	0.171	33.01	-10.67
	64-QAM	3840.0	-0.80	1 / 1	21.67	20.87	0.122	33.01	-12.14
	256-QAM	3840.0	-0.80	100 / 0	19.29	18.49	0.071	33.01	-14.52
	256-QAM	3840.0	-0.80	100 / 0	19.29	18.49	0.071	33.01	-14.52
20 MHz	π/2 BPSK	3710.0	-0.80	1 / 1	23.59	22.79	0.190	33.01	-10.22
		3840.0	-0.80	1 / 48	23.70	22.90	0.195	33.01	-10.11
		3970.0	-0.80	1 / 25	23.47	22.67	0.185	33.01	-10.34
	QPSK	3710.0	-0.80	1 / 25	23.53	22.73	0.187	33.01	-10.28
		3840.0	-0.80	1 / 25	23.69	22.89	0.195	33.01	-10.12
		3970.0	-0.80	1 / 1	23.44	22.64	0.183	33.01	-10.37
	16-QAM	3710.0	-0.80	1 / 1	22.90	22.10	0.162	33.01	-10.91
	64-QAM	3840.0	-0.80	50 / 0	21.44	20.64	0.116	33.01	-12.37
	256-QAM	3840.0	-0.80	50 / 0	19.45	18.65	0.073	33.01	-14.36
	256-QAM	3840.0	-0.80	50 / 0	19.45	18.65	0.073	33.01	-14.36

Table 7-33. EIRP Data (NR Band n77(PC2) – DFT-s OFDM)

FCC ID: BCGA2301		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device		Page 172 of 221

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NR Band n77(PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.0	-0.80	1 / 258	22.32	21.52	0.142	33.01	-11.49
		3840.0	-0.80	1 / 135	22.35	21.55	0.143	33.01	-11.46
		3930.0	-0.80	1 / 1	22.44	21.64	0.146	33.01	-11.37
	QPSK	3750.0	-0.80	1 / 1	22.46	21.66	0.147	33.01	-11.35
		3840.0	-0.80	1 / 258	22.70	21.90	0.155	33.01	-11.11
		3930.0	-0.80	1 / 1	22.61	21.81	0.152	33.01	-11.20
	16-QAM	3930.0	-0.80	1 / 1	21.65	20.85	0.122	33.01	-12.16
	64-QAM	3930.0	-0.80	1 / 1	20.21	19.41	0.087	33.01	-13.61
90 MHz	$\pi/2$ BPSK	3840.0	-0.80	1 / 135	18.59	17.79	0.060	33.01	-15.22
	QPSK	3745.0	-0.80	1 / 1	22.23	21.43	0.139	33.01	-11.58
		3840.0	-0.80	1 / 120	22.36	21.56	0.143	33.01	-11.45
		3935.0	-0.80	1 / 238	22.22	21.42	0.139	33.01	-11.59
	QPSK	3745.0	-0.80	1 / 238	22.12	21.32	0.135	33.01	-11.69
		3840.0	-0.80	1 / 120	22.51	21.71	0.148	33.01	-11.30
		3935.0	-0.80	1 / 1	22.20	21.40	0.138	33.01	-11.61
	16-QAM	3840.0	-0.80	1 / 120	21.40	20.60	0.115	33.01	-12.41
80 MHz	$\pi/2$ BPSK	3935.0	-0.80	1 / 238	19.81	19.01	0.080	33.01	-14.00
	QPSK	3745.0	-0.80	1 / 120	18.07	17.27	0.053	33.01	-15.74
		3840.0	-0.80	1 / 108	22.03	21.23	0.133	33.01	-11.78
	QPSK	3840.0	-0.80	1 / 108	22.29	21.49	0.141	33.01	-11.52
		3940.0	-0.80	1 / 108	21.95	21.15	0.130	33.01	-11.86
	16-QAM	3740.0	-0.80	1 / 1	22.32	21.52	0.142	33.01	-11.49
		3840.0	-0.80	1 / 108	22.42	21.62	0.145	33.01	-11.39
		3940.0	-0.80	1 / 214	22.18	21.38	0.137	33.01	-11.63
60 MHz	$\pi/2$ BPSK	3840.0	-0.80	1 / 108	19.86	19.06	0.080	33.01	-13.95
	QPSK	3840.0	-0.80	1 / 108	17.88	17.08	0.051	33.01	-15.93
		3730.0	-0.80	1 / 1	21.94	21.14	0.130	33.01	-11.87
	QPSK	3840.0	-0.80	1 / 81	22.08	21.28	0.134	33.01	-11.73
		3950.0	-0.80	1 / 81	22.09	21.29	0.135	33.01	-11.72
	16-QAM	3730.0	-0.80	1 / 162	22.26	21.46	0.140	33.01	-11.55
		3840.0	-0.80	1 / 162	22.25	21.45	0.140	33.01	-11.56
		3950.0	-0.80	1 / 162	22.43	21.63	0.146	33.01	-11.38
50 MHz	$\pi/2$ BPSK	3840.0	-0.80	1 / 81	21.44	20.64	0.116	33.01	-12.37
	QPSK	3730.0	-0.80	1 / 1	19.92	19.12	0.082	33.01	-13.89
		3840.0	-0.80	1 / 162	17.80	17.00	0.050	33.01	-16.01
	QPSK	3725.0	-0.80	1 / 64	22.24	21.44	0.139	33.01	-11.57
		3840.0	-0.80	1 / 126	22.59	21.79	0.151	33.01	-11.22
		3955.0	-0.80	1 / 1	22.24	21.44	0.139	33.01	-11.57
	16-QAM	3725.0	-0.80	1 / 126	22.24	21.44	0.139	33.01	-11.57
		3840.0	-0.80	1 / 126	22.66	21.86	0.153	33.01	-11.15
40 MHz	$\pi/2$ BPSK	3955.0	-0.80	1 / 126	22.33	21.53	0.142	33.01	-11.48
	QPSK	3840.0	-0.80	1 / 64	20.29	19.49	0.089	33.01	-13.52
		3840.0	-0.80	1 / 1	17.94	17.14	0.052	33.01	-15.87
	QPSK	3720.0	-0.80	1 / 1	22.49	21.69	0.147	33.01	-11.32
		3840.0	-0.80	1 / 98	22.70	21.90	0.155	33.01	-11.11
		3960.0	-0.80	1 / 98	22.27	21.47	0.140	33.01	-11.54
	16-QAM	3720.0	-0.80	1 / 50	22.31	21.51	0.142	33.01	-11.50
		3840.0	-0.80	1 / 98	22.60	21.80	0.151	33.01	-11.21
20 MHz	$\pi/2$ BPSK	3960.0	-0.80	1 / 98	22.30	21.50	0.141	33.01	-11.51
	QPSK	3840.0	-0.80	1 / 1	21.87	21.07	0.128	33.01	-11.94
		3840.0	-0.80	1 / 1	20.40	19.60	0.091	33.01	-13.41
	QPSK	3710.0	-0.80	1 / 1	22.32	21.52	0.142	33.01	-11.49
		3840.0	-0.80	1 / 48	22.40	21.60	0.145	33.01	-11.41
		3970.0	-0.80	1 / 25	22.20	21.40	0.138	33.01	-11.61
	16-QAM	3710.0	-0.80	1 / 25	22.26	21.46	0.140	33.01	-11.55
		3840.0	-0.80	1 / 25	22.39	21.59	0.144	33.01	-11.42
20 MHz	$\pi/2$ BPSK	3970.0	-0.80	1 / 1	22.17	21.37	0.137	33.01	-11.64
	QPSK	3710.0	-0.80	1 / 1	21.63	20.83	0.121	33.01	-12.18
		3840.0	-0.80	50 / 0	20.17	19.37	0.087	33.01	-13.64
	QPSK	3710.0	-0.80	50 / 0	18.18	17.38	0.055	33.01	-15.63
		3840.0	-0.80	50 / 0	18.18	17.38	0.055	33.01	-15.63
		3970.0	-0.80	50 / 0	18.18	17.38	0.055	33.01	-15.63
	16-QAM	3710.0	-0.80	50 / 0	18.18	17.38	0.055	33.01	-15.63
		3840.0	-0.80	50 / 0	18.18	17.38	0.055	33.01	-15.63
		3970.0	-0.80	50 / 0	18.18	17.38	0.055	33.01	-15.63

Table 7-34. EIRP Data (NR Band n77(PC3) – DFT-s OFDM)

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7.7 Radiated Spurious Emissions

§2.1053, 27.53(a), 27.53(m)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

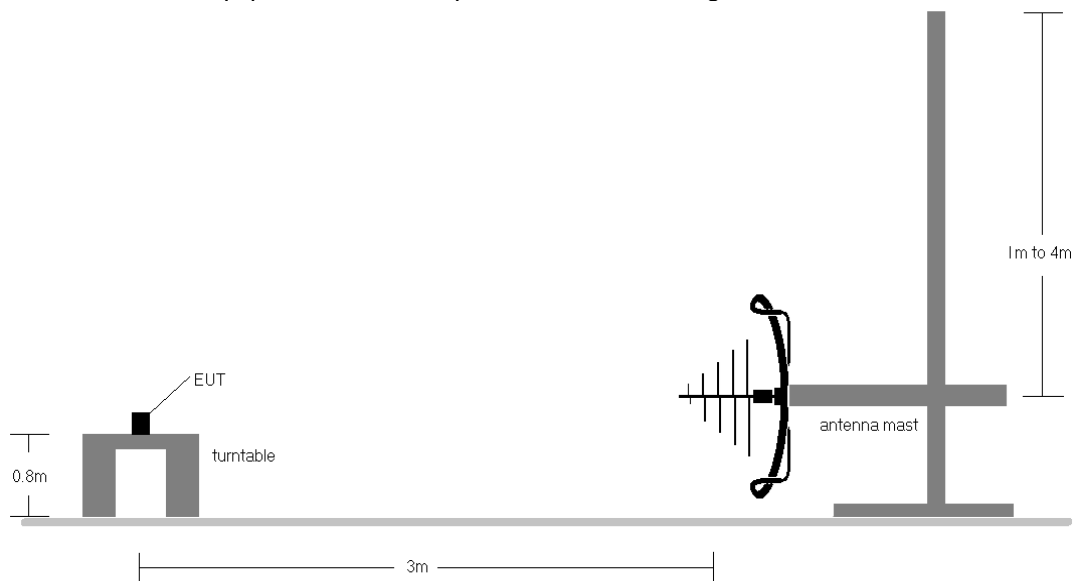


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

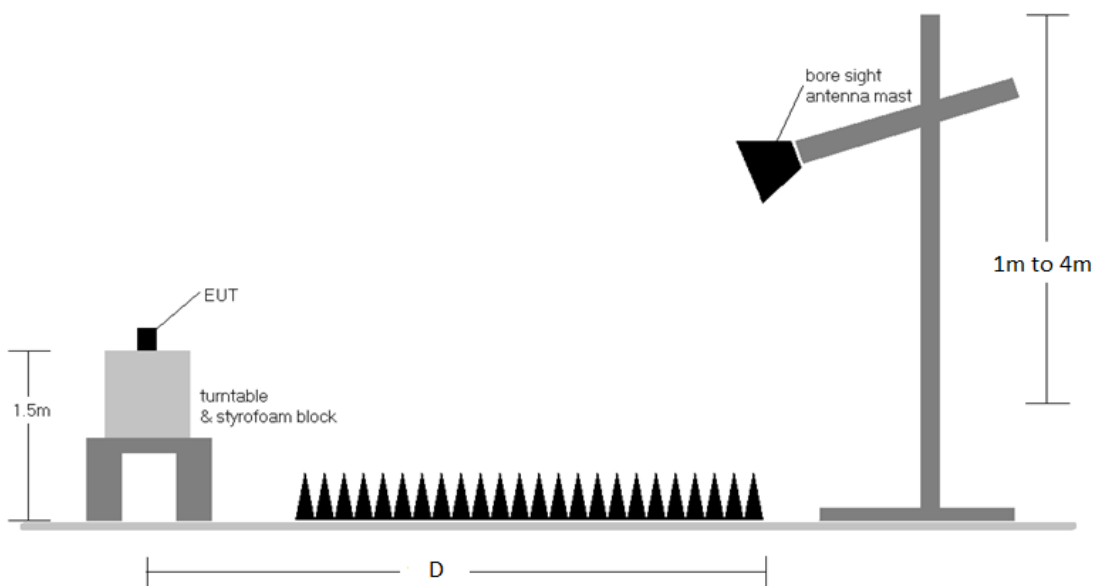


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

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Test Notes

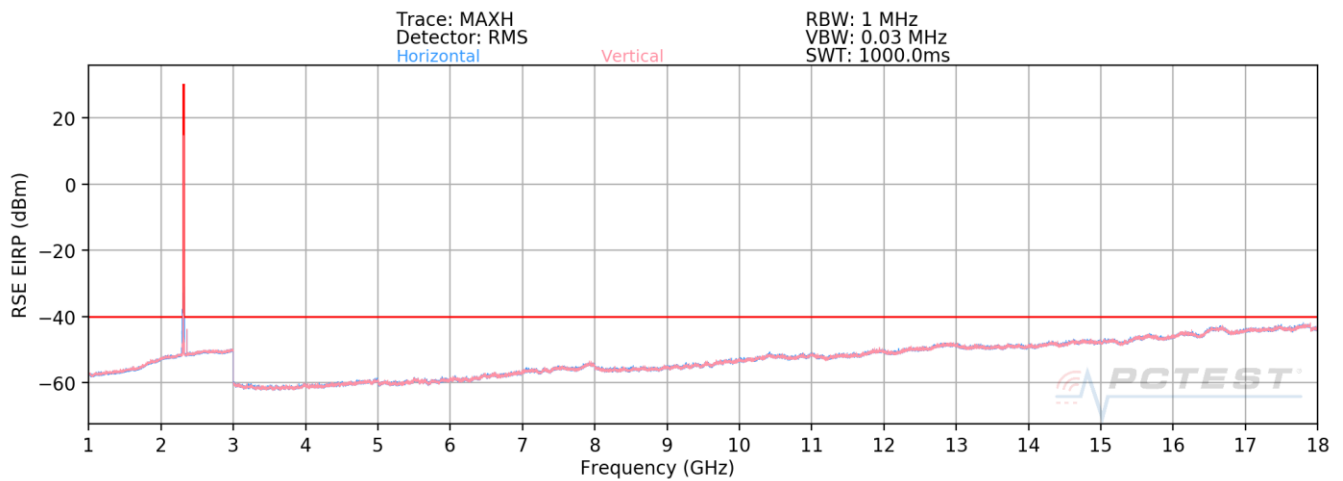
- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - b) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) Uplink carrier aggregation intra-band radiated spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. The worst case (highest) emissions were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
- 8) Uplink carrier aggregation for LTE Band 7 is only supported in this EUT while operating in Power Class 3.
- 9) Uplink carrier aggregation for LTE Band 41 is supported in this EUT while operating in Power Class 2 and Power Class 3.
- 10) Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.
- 11) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 12) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been included in this section. Spurious emissions from the NR and LTE carriers are subject to their own respective limits.
- 13) For LTE Band 30 pre-scans above 1GHz, the RBW is set to 1MHz and VBW to 30kHz. For final measurements above 1GHz, the RBW is set to 1MHz and VBW to 3MHz when measuring with an RMS detector and trace averaging.

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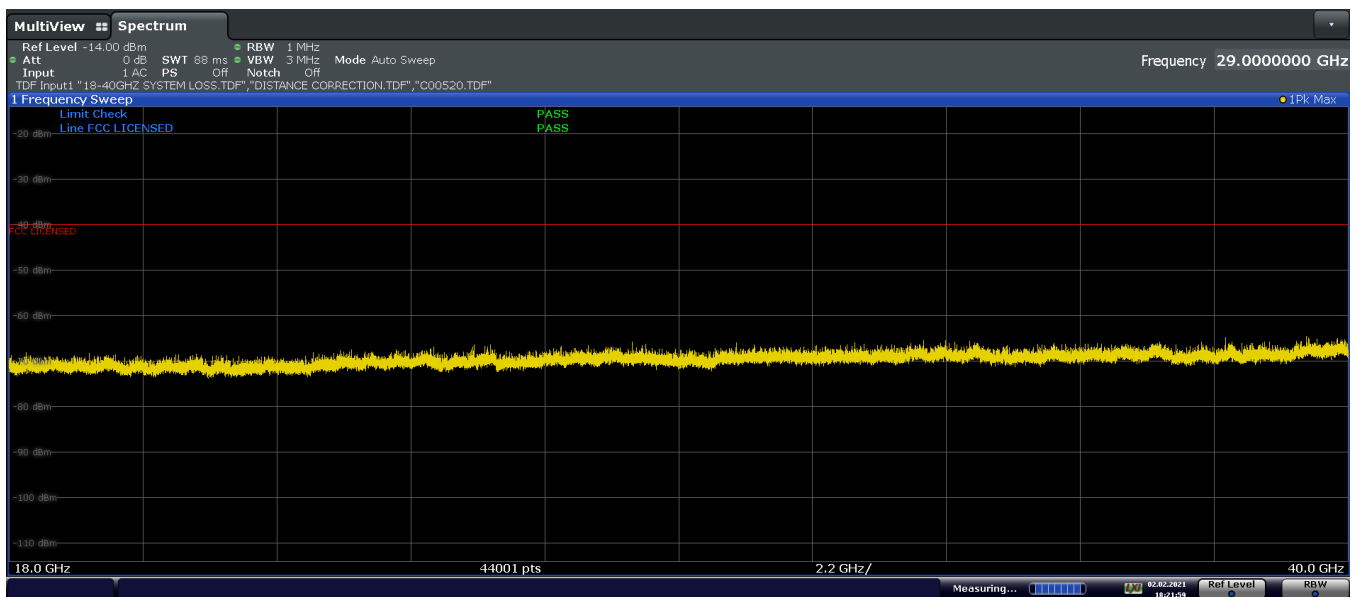
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7.7.1 Antenna 3 Radiated Spurious Emission Measurements LTE Band 30



Plot 7-238. Radiated Spurious Emission 1GHz – 18GHz (LTE Band 30)

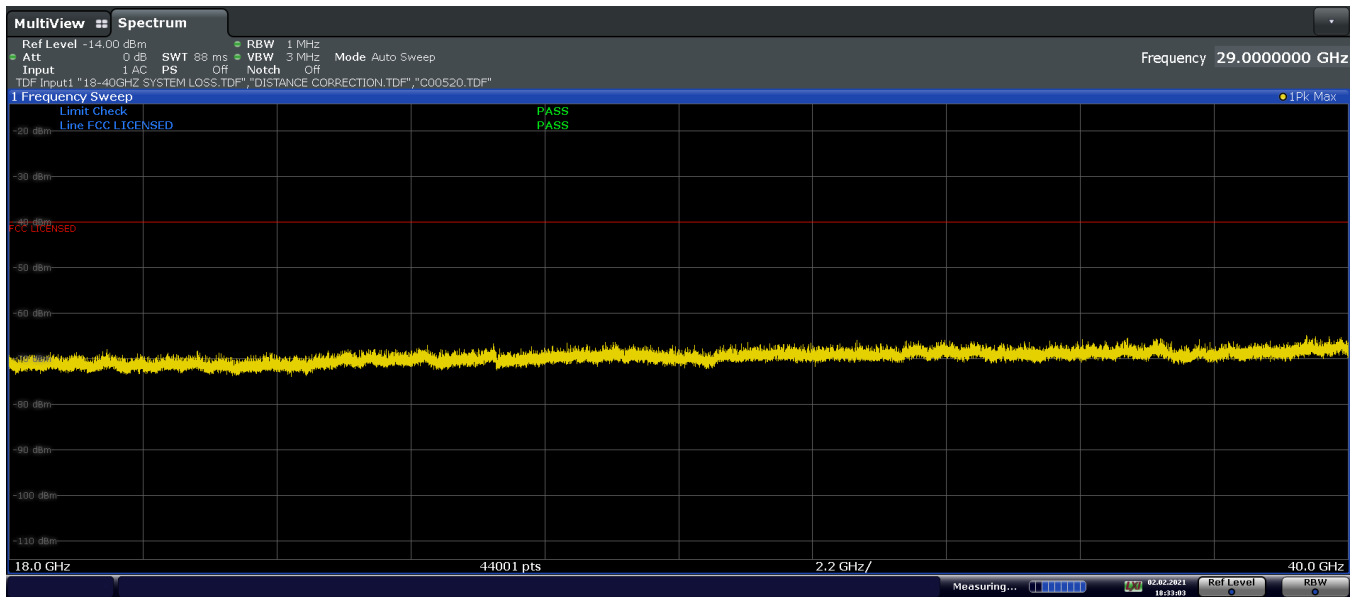


Plot 7-239. Radiated Spurious Emission above 18GHz (LTE Band 30, Pol. H)

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Plot 7-240. Radiated Spurious Emission above 18GHz (LTE Band 30, Pol. V)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-81.68	8.55	33.87	-61.39	-40.00	-21.39
6922.5	V	-	-	-84.14	13.26	36.12	-59.14	-40.00	-19.14
9230.0	V	-	-	-85.27	16.99	38.72	-56.54	-40.00	-16.54

Table 7-35. 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	-	-	-81.78	8.59	33.81	-61.45	-40.00	-21.45
6930.0	H	-	-	-84.14	13.20	36.06	-59.20	-40.00	-19.20
9240.0	H	-	-	-85.43	17.00	38.57	-56.69	-40.00	-16.69

Table 7-36. Radiated Spurious Data (LTE Band 30 – Mid Channel)

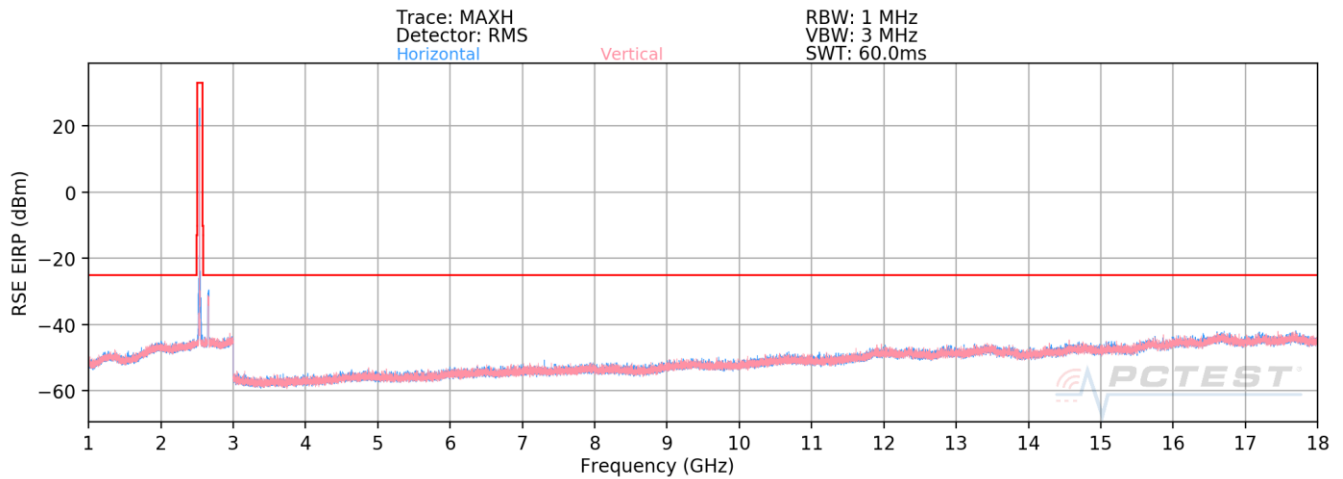
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 25

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]
4625.00	H	-	-	-81.79	8.66	33.87	-61.39	-40.00	-21.39
6937.50	H	-	-	-84.11	13.23	36.12	-59.13	-40.00	-19.13
9250.00	H	-	-	-85.46	17.03	38.57	-56.69	-40.00	-16.69

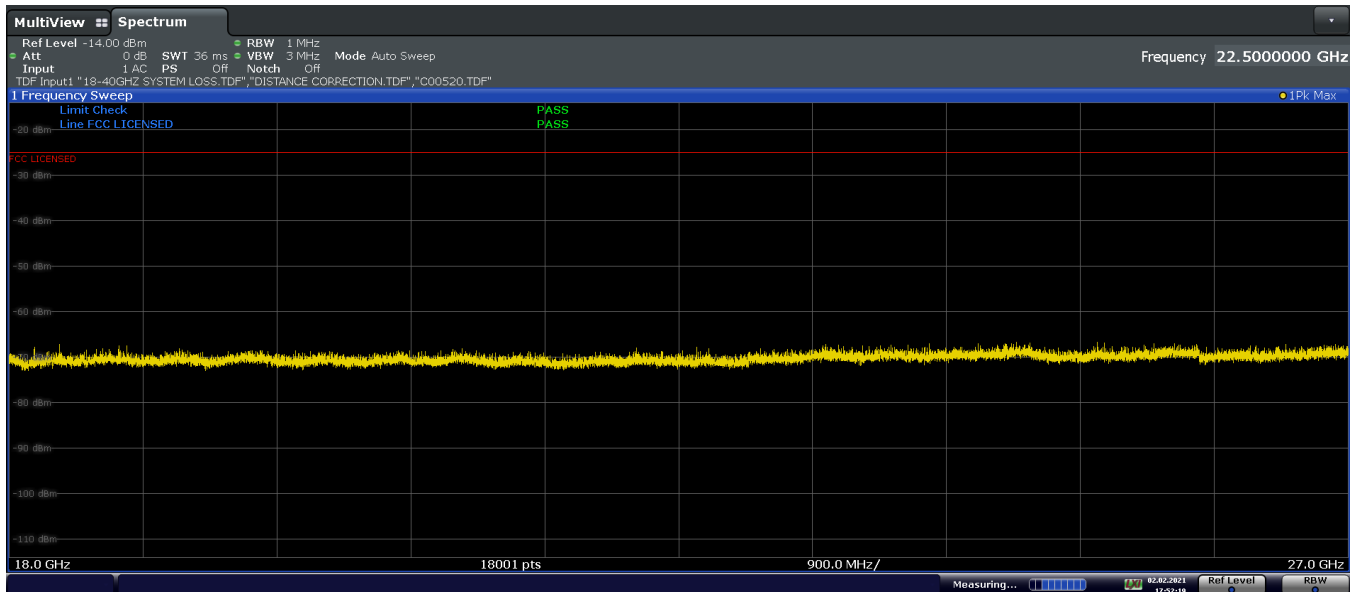
Table 7-37. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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LTE Band 7



Plot 7-241. Radiated Spurious Emission 1GHz – 18GHz (LTE Band 7)

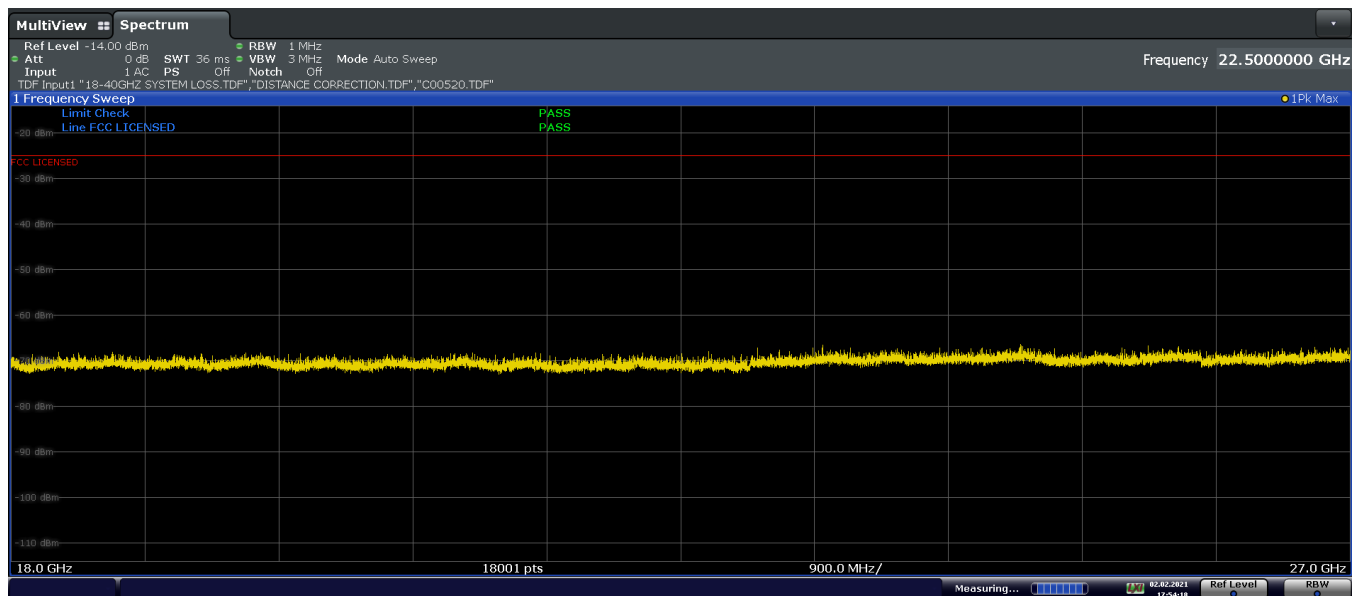


Plot 7-242. Radiated Spurious Emission above 18GHz (LTE Band 7 Pol. H)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-243. Radiated Spurious Emission above 18GHz (LTE Band 7 Pol. V)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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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	-	-	-79.88	6.24	33.36	-61.90	-25.00	-36.90
7530.0	H	-	-	-81.11	9.06	34.95	-60.31	-25.00	-35.31
10040.0	H	-	-	-81.99	11.91	36.92	-58.34	-25.00	-33.34

Table 7-38. 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	-	-	-80.05	6.36	33.31	-61.94	-25.00	-36.94
7605.0	H	-	-	-80.91	9.01	35.10	-60.15	-25.00	-35.15
10140.0	H	-	-	-81.70	12.07	37.37	-57.88	-25.00	-32.88

Table 7-39. 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	-	-	-80.13	6.27	33.14	-62.12	-25.00	-37.12
7680.00	H	-	-	-80.33	8.31	34.98	-60.28	-25.00	-35.28
10240.00	H	-	-	-81.45	11.89	37.44	-57.82	-25.00	-32.82

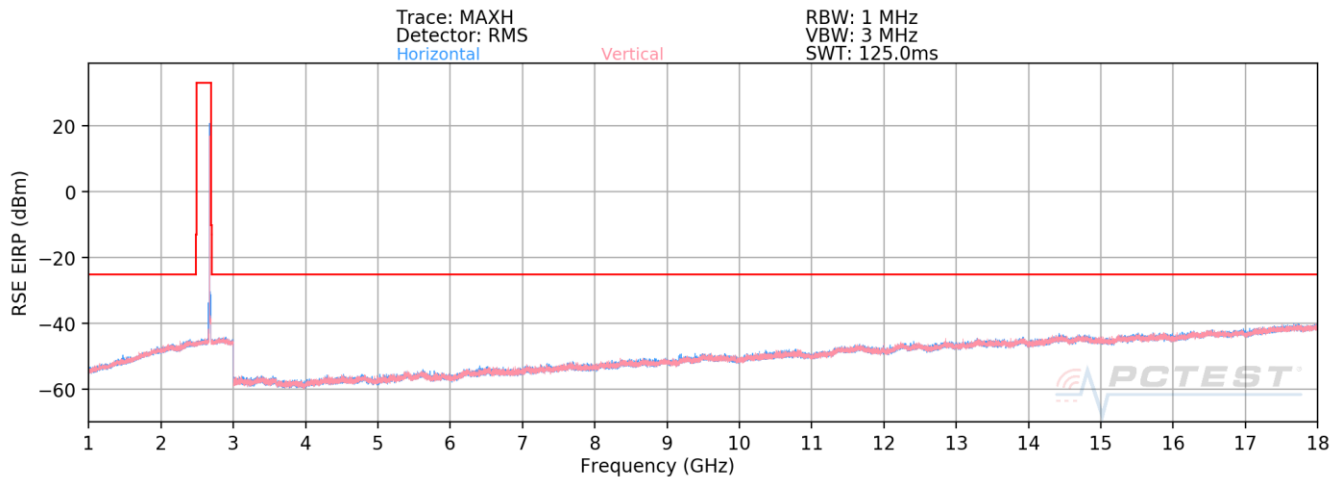
Table 7-40. Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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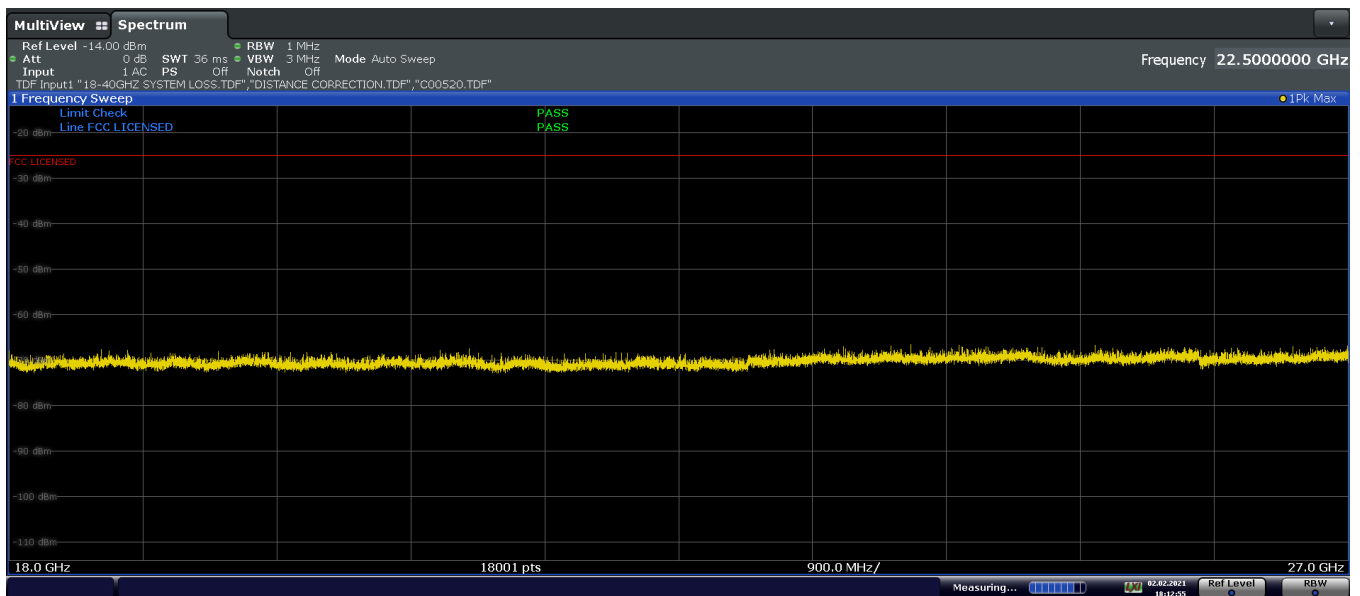
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LTE Band 41



Plot 7-244. Radiated Spurious Emission 1GHz – 18GHz (LTE Band 41(PC2))

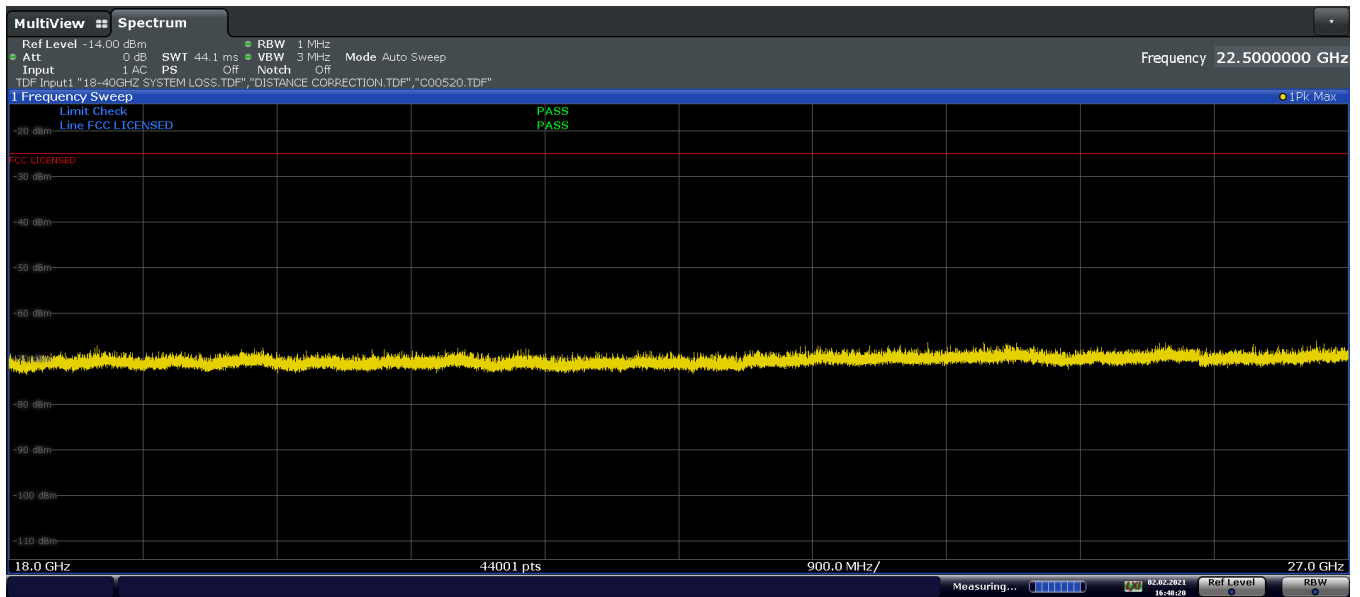


Plot 7-245. Radiated Spurious Emission above 18GHz (LTE Band 41(PC2), Pol. H)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-246. Radiated Spurious Emission above 18GHz (LTE Band 41(PC2), Pol. V)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-79.04	9.73	37.69	-57.57	-25.00	-32.57
7518.0	V	-	-	-78.68	15.20	43.52	-51.73	-25.00	-26.73
10024.0	V	-	-	-80.90	18.74	44.84	-50.42	-25.00	-25.42

Table 7-41. 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	-	-	-74.05	9.87	42.82	-52.44	-25.00	-27.44
7779.0	H	-	-	-74.37	14.56	47.19	-48.07	-25.00	-23.07
10372.0	H	-	-	-75.42	19.26	50.84	-44.42	-25.00	-19.42

Table 7-42. 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	-	-	-73.58	9.88	43.30	-51.96	-25.00	-26.96
8040.0	H	-	-	-75.25	15.71	47.46	-47.79	-25.00	-22.79
10720.0	H	-	-	-75.65	19.24	50.59	-44.67	-25.00	-19.67

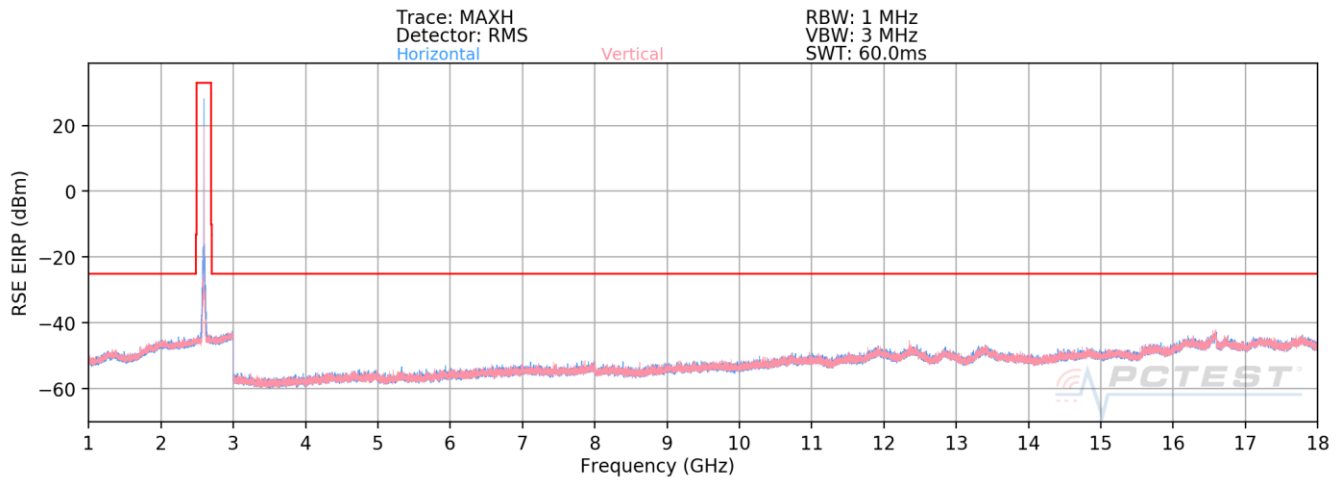
Table 7-43. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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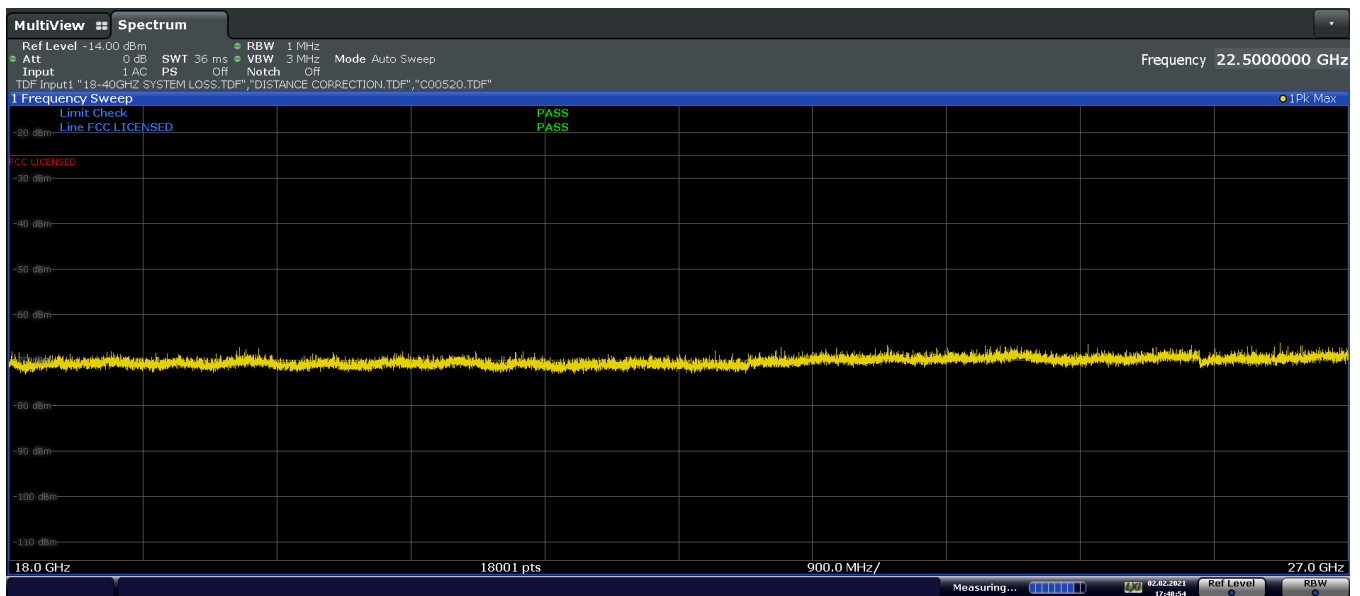
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NR Band n41



Plot 7-247. Radiated Spurious Emission 1GHz – 18GHz (NR Band n41)

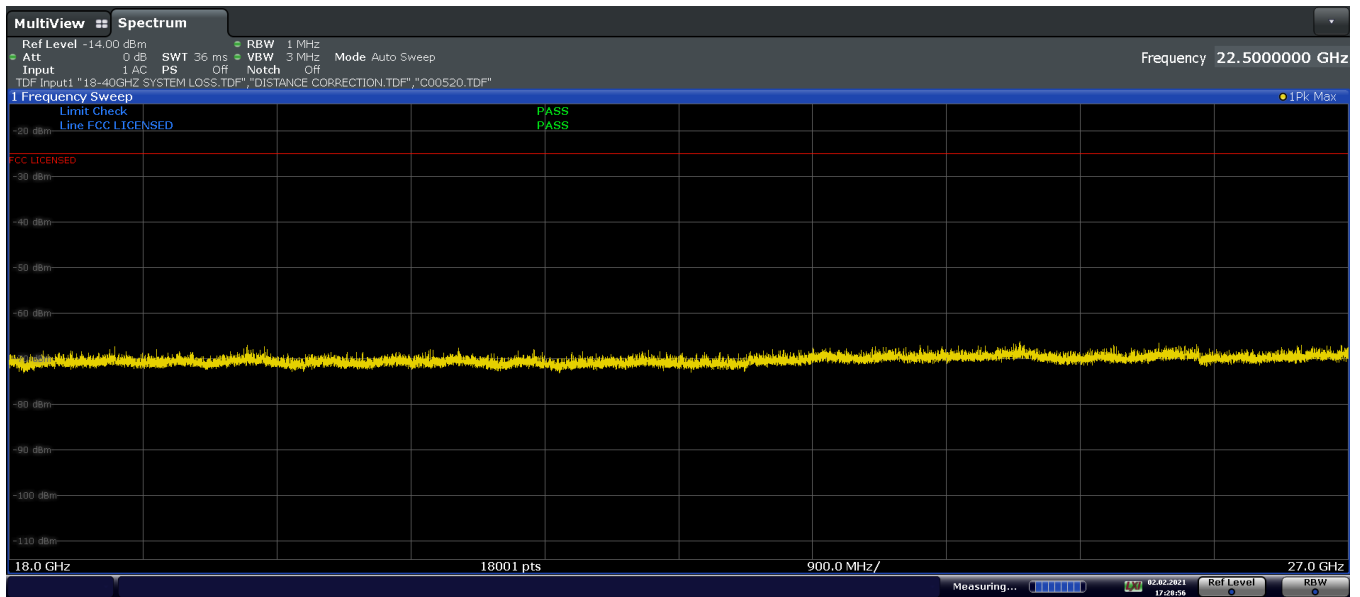


Plot 7-248. Radiated Spurious Emission above 18GHz (NR Band n41, Pol. H)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 186 of 221

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Plot 7-249. Radiated Spurious Emission above 18GHz (NR Band n41, Pol. V)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 187 of 221

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Bandwidth (MHz):	100
Frequency (MHz):	2546.01
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]
5092.0	H	-	-	-69.67	6.43	43.76	-51.49	-25.00	-26.49
7638.0	H	-	-	-69.78	8.63	45.85	-49.41	-25.00	-24.41
10184.0	H	-	-	-71.09	12.01	47.92	-47.34	-25.00	-22.34

Table 7-44. 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	-	-	-	-69.53	5.08	42.55	-52.70	-25.00	-27.70
7779.0	-	-	-	-69.49	8.58	46.09	-49.17	-25.00	-24.17
10372.0	-	-	-	-71.36	13.68	49.32	-45.93	-25.00	-20.93

Table 7-45. 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	-	-	-	-69.74	5.03	42.29	-52.97	-25.00	-27.97
7920.0	-	-	-	-70.68	10.22	46.54	-48.72	-25.00	-23.72
10560.0	-	-	-	-72.25	14.05	48.80	-46.46	-25.00	-21.46

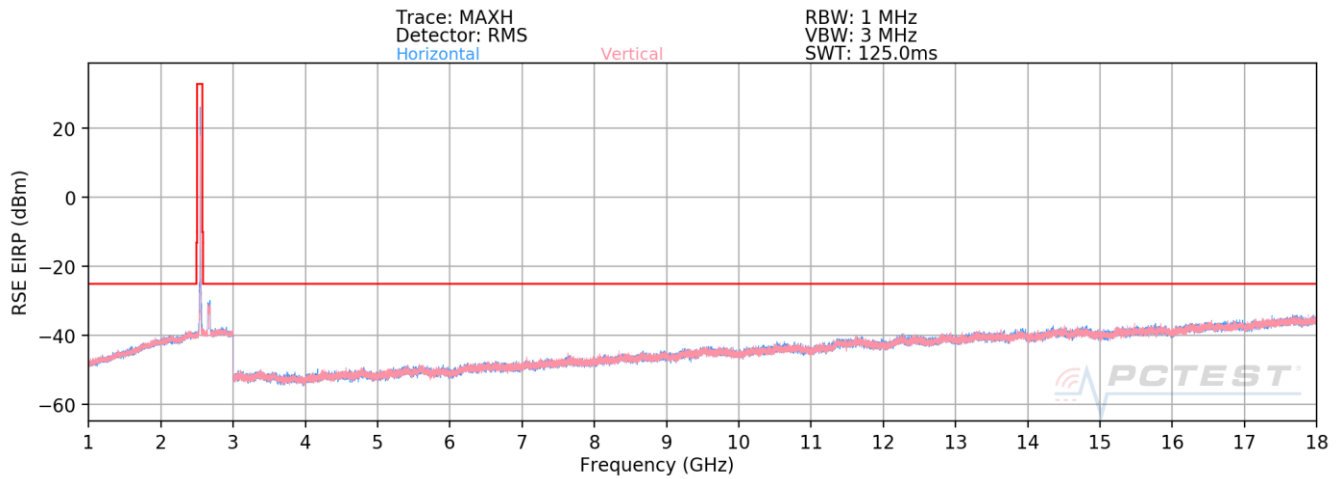
Table 7-46. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 188 of 221

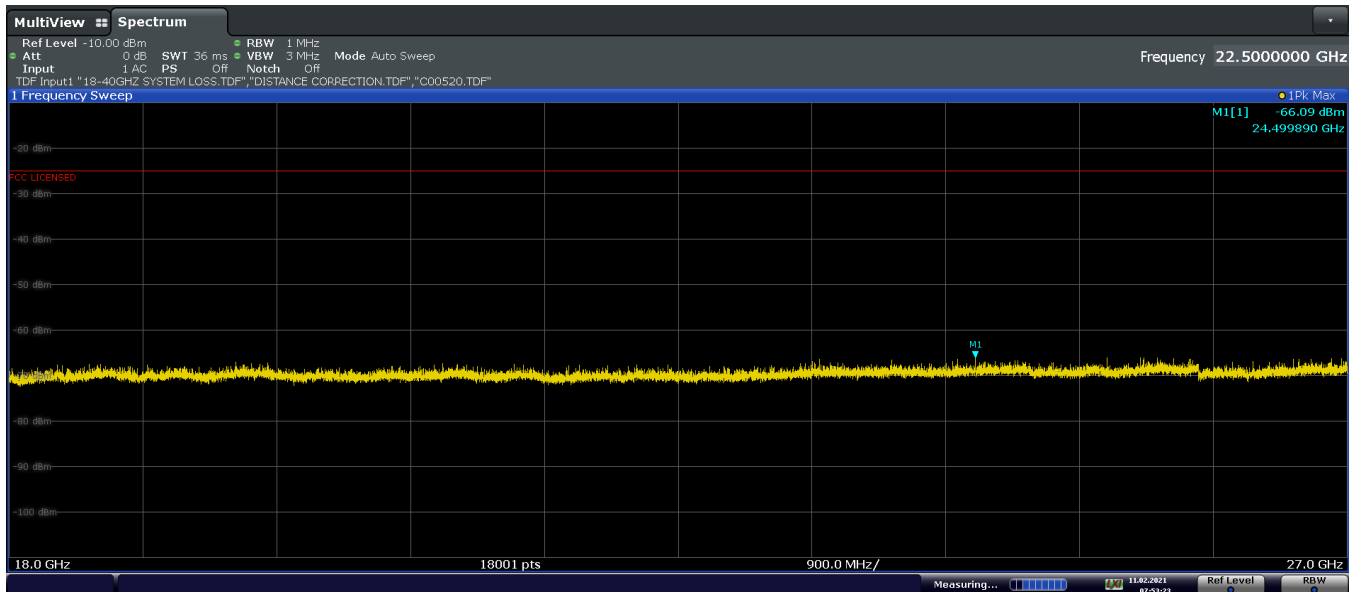
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ULCA - LTE B7



Plot 7-250. Radiated Spurious Emission 1GHz – 18GHz (ULCA LTE B7)

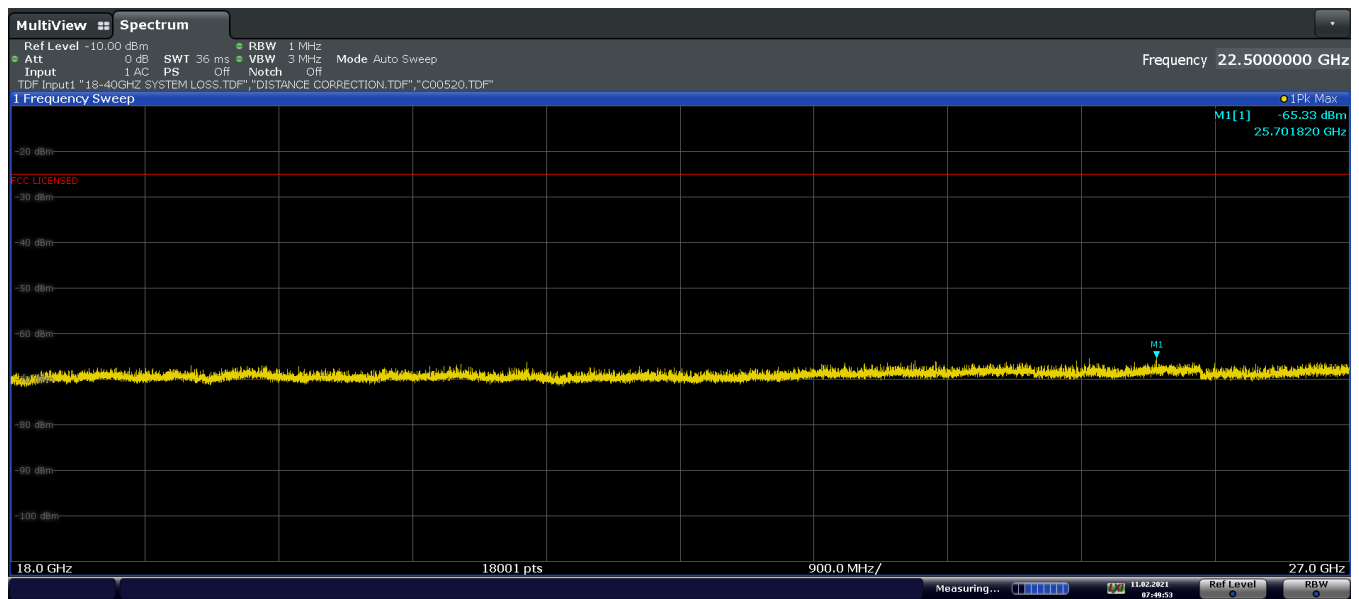


Plot 7-251. Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. H)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 189 of 221

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Plot 7-252. Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. V)

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 190 of 221

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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]
5040.0	-	-	-	-80.93	6.90	32.97	-62.29	-25.00	-37.29
7560.0	-	-	-	-80.04	11.09	38.05	-57.21	-25.00	-32.21
10080.0	-	-	-	-81.55	14.16	39.61	-55.65	-25.00	-30.65

Table 7-47. 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]
5090.0	-	-	-	-80.33	7.36	34.03	-61.23	-25.00	-36.23
7635.0	-	-	-	-80.46	11.44	37.98	-57.28	-25.00	-32.28
10180.0	-	-	-	-81.94	14.78	39.84	-55.41	-25.00	-30.41

Table 7-48. 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]
5140.0	-	-	-	-80.25	7.08	33.83	-61.43	-25.00	-36.43
7710.0	-	-	-	-80.45	11.29	37.84	-57.42	-25.00	-32.42
10280.0	-	-	-	-81.40	14.57	40.17	-55.09	-25.00	-30.09

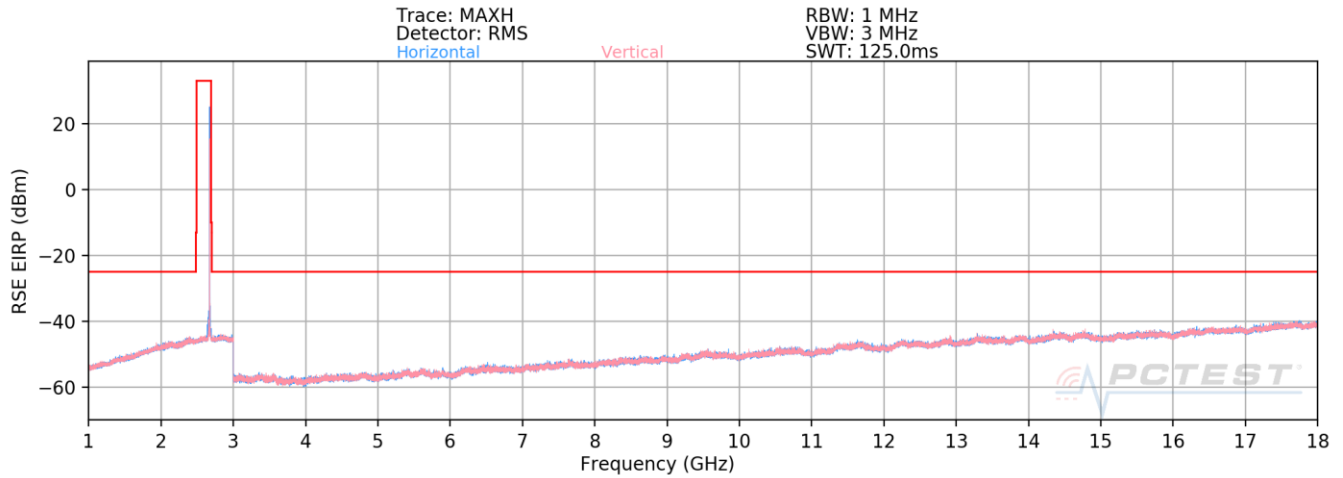
Table 7-49. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 191 of 221

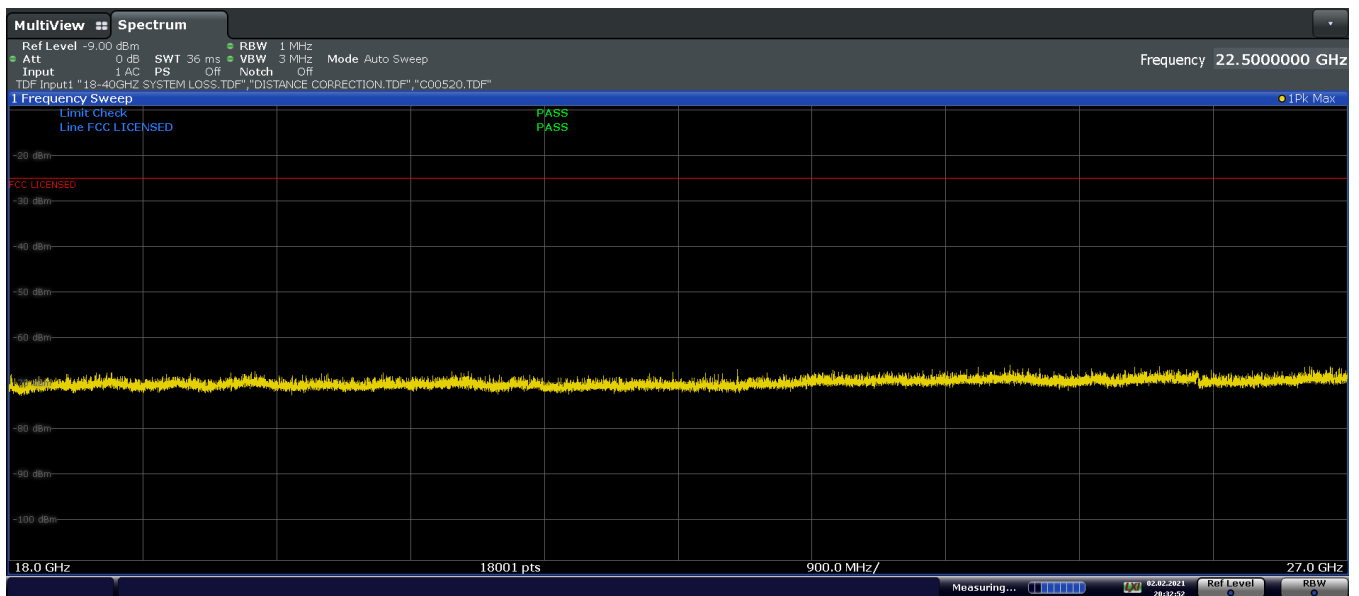
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ULCA - LTE B41



Plot 7-253. Radiated Spurious Emission 1GHz – 18GHz (ULCA LTE B41)

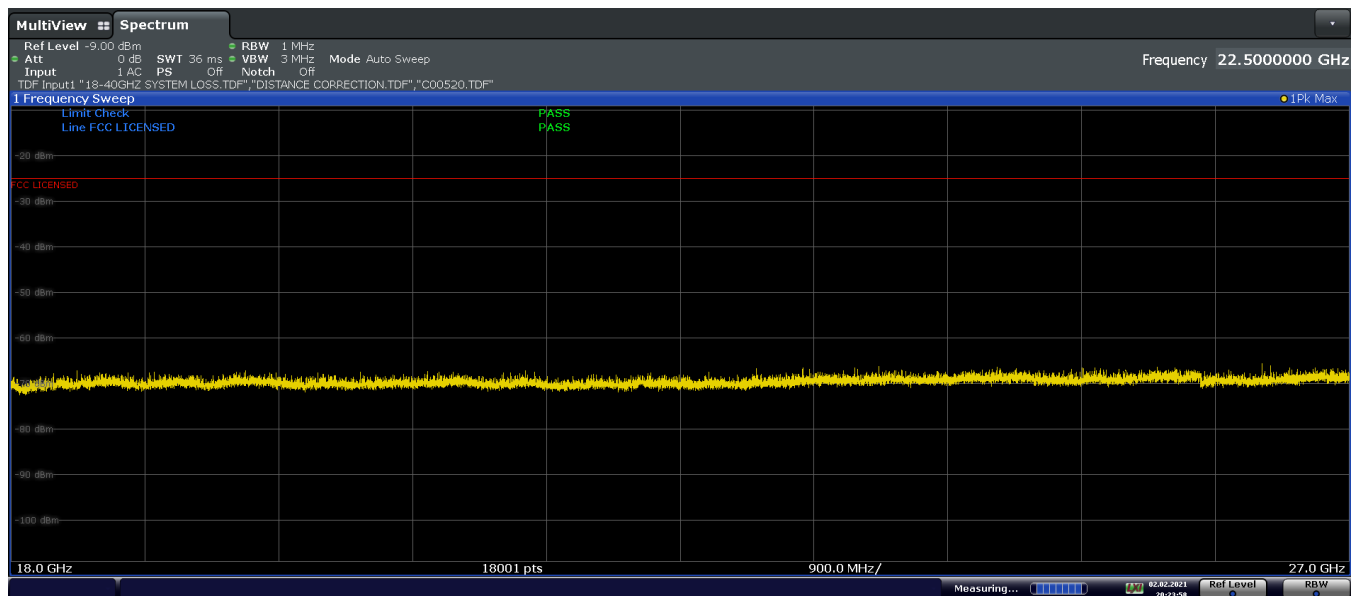


Plot 7-254. Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. H)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 192 of 221

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Plot 7-255. Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. V)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 193 of 221

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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]
5032.0	H	-	-	-72.31	6.72	41.41	-53.84	-25.00	-28.84
7548.0	H	-	-	-73.82	11.04	44.22	-51.04	-25.00	-26.04
10064.0	H	-	-	-74.13	14.33	47.20	-48.06	-25.00	-23.06

Table 7-50. 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]
5206.0	H	-	-	-71.88	6.36	41.48	-53.78	-25.00	-28.78
7809.0	H	-	-	-73.90	11.08	44.18	-51.07	-25.00	-26.07
10412.0	H	-	-	-74.06	14.96	47.90	-47.36	-25.00	-22.36

Table 7-51. 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]
5380.0	H	-	-	-71.93	7.70	42.77	-52.49	-25.00	-27.49
8070.0	H	-	-	-73.59	11.65	45.06	-50.20	-25.00	-25.20
10760.0	H	-	-	-73.33	15.85	49.52	-45.73	-25.00	-20.73

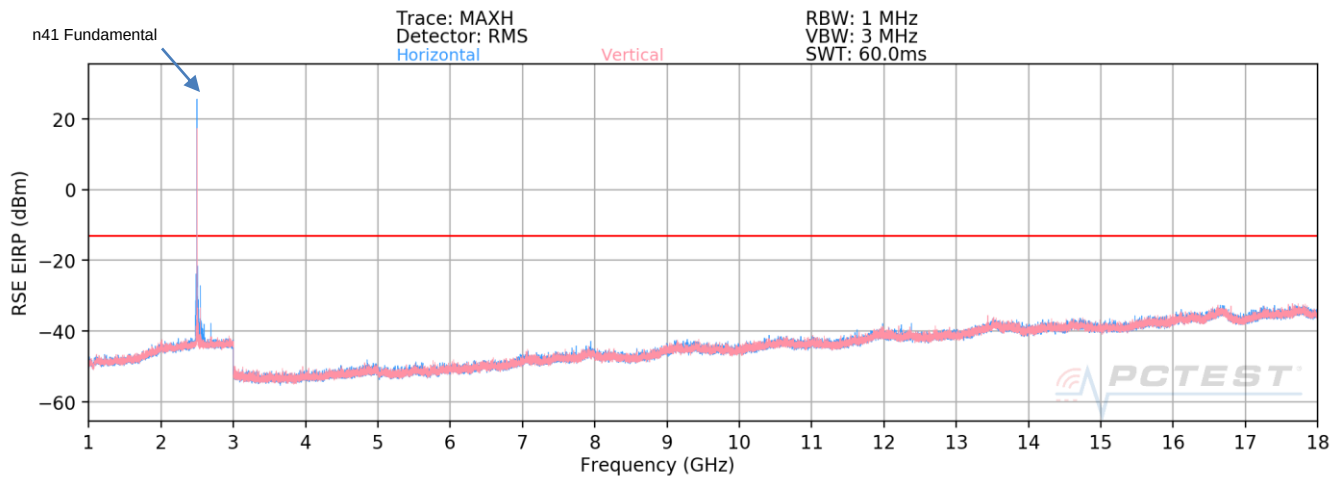
Table 7-52. Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 194 of 221

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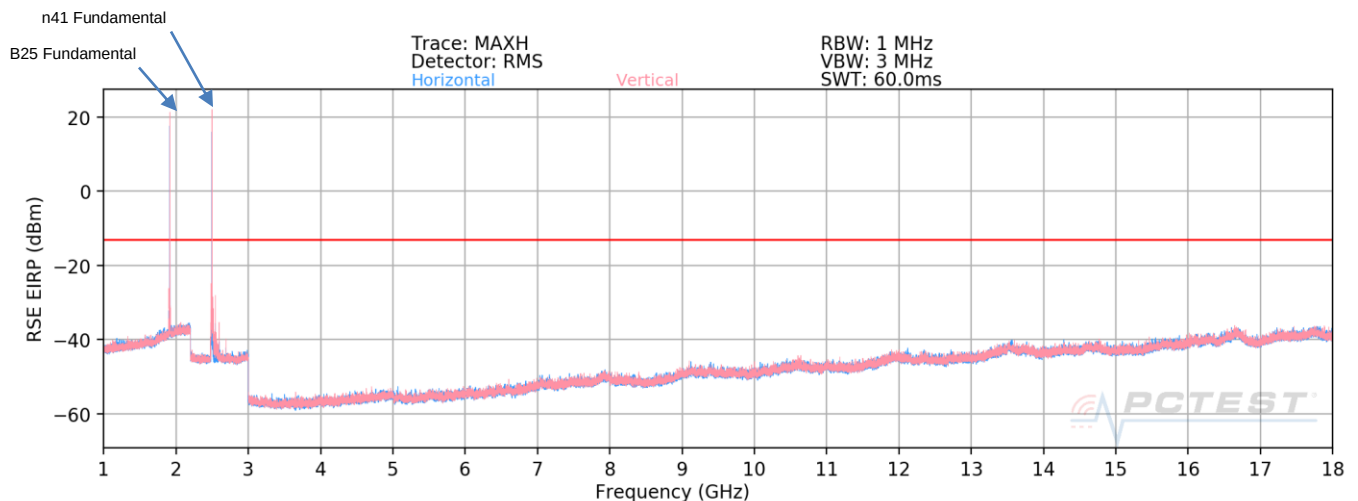
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EN-DC – n41 + LTE Band 26



Plot 7-256. Radiated Spurious Emission 1GHz – 18GHz (NR Band n41 + Anchor LTE Band 26 – EN-DC)

EN-DC – n41 + LTE Band 25



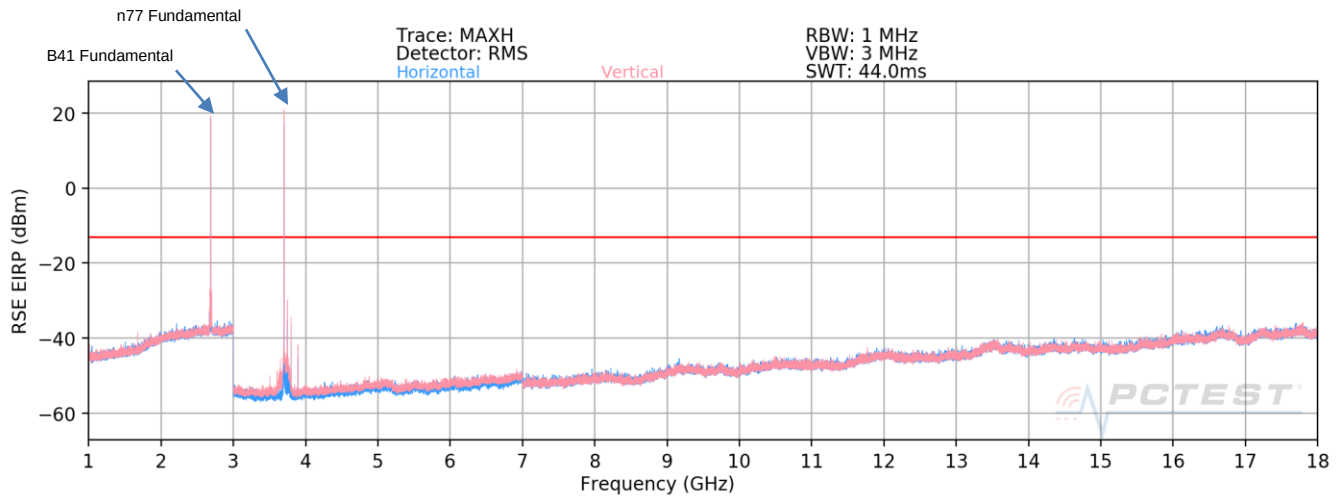
Plot 7-257. Radiated Spurious Emission 1GHz – 18GHz (NR Band n41 + Anchor LTE Band 25 – EN-DC)

FCC ID: BCGA2301	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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EN-DC – n77 + LTE Band 41



Plot 7-258. Radiated Spurious Emission 1GHz – 18GHz (NR Band n77 + Anchor LTE Band 66 – EN-DC)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 196 of 221

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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 / 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	H	-	-	-80.61	6.45	32.84	-62.42	-40.00	-22.42
6922.5	H	-	-	-81.68	9.84	35.16	-60.09	-40.00	-20.09
9230.0	H	-	-	-83.41	11.68	35.27	-59.99	-40.00	-19.99

Table 7-53. 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	-	-	-80.62	6.48	32.86	-62.40	-40.00	-22.40
6930.0	H	-	-	-81.84	9.84	35.00	-60.26	-40.00	-20.26
9240.0	H	-	-	-83.47	12.00	35.53	-59.73	-40.00	-19.73

Table 7-54. Radiated Spurious Data (LTE Band 30 – 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]
4625.00	H	-	-	-80.71	6.48	32.77	-62.49	-40.00	-22.49
6937.50	H	-	-	-81.98	9.74	34.76	-60.50	-40.00	-20.50
9250.00	H	-	-	-83.10	11.92	35.82	-59.43	-40.00	-19.43

Table 7-55. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-81.17	7.06	32.89	-62.37	-25.00	-37.37
7530.0	H	-	-	-83.00	10.61	34.61	-60.65	-25.00	-35.65
10040.0	H	-	-	-84.20	13.15	35.95	-59.31	-25.00	-34.31

Table 7-56. 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	-	-	-81.10	6.92	32.82	-62.44	-25.00	-37.44
7605.0	H	-	-	-82.69	10.67	34.98	-60.27	-25.00	-35.27
10140.0	H	-	-	-83.87	13.41	36.54	-58.72	-25.00	-33.72

Table 7-57. 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	-	-	-80.86	6.48	32.62	-62.64	-25.00	-37.64
7680.00	H	-	-	-82.41	10.02	34.61	-60.65	-25.00	-35.65
10240.00	H	-	-	-83.91	13.54	36.63	-58.63	-25.00	-33.63

Table 7-58. Radiated Spurious Data (LTE Band 7 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-78.82	6.72	34.90	-60.35	-25.00	-35.35
7518.0	V	-	-	-78.59	11.04	39.45	-55.81	-25.00	-30.81
10024.0	V	-	-	-80.68	14.33	40.65	-54.61	-25.00	-29.61

Table 7-59. 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	-	-	-77.72	6.36	35.64	-59.62	-25.00	-34.62
7779.0	V	-	-	-78.95	11.08	39.13	-56.12	-25.00	-31.12
10372.0	V	-	-	-79.73	14.96	42.23	-53.03	-25.00	-28.03

Table 7-60. 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	-	-	-79.71	7.70	34.99	-60.27	-25.00	-35.27
8040.0	V	-	-	-80.63	11.65	38.02	-57.24	-25.00	-32.24
10720.0	V	-	-	-81.32	15.85	41.53	-53.72	-25.00	-28.72

Table 7-61. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 199 of 221

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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	-	-	-	-70.62	4.53	40.91	-54.35	-25.00	-29.35
7638.0	-	-	-	-71.99	8.92	43.93	-51.33	-25.00	-26.33
10184.0	-	-	-	-75.75	13.80	45.05	-50.21	-25.00	-25.21

Table 7-62. 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	-	-	-	-70.92	5.08	41.16	-54.09	-25.00	-29.09
7779.0	-	-	-	-72.21	8.58	43.37	-51.89	-25.00	-26.89
10372.0	-	-	-	-76.01	13.68	44.67	-50.58	-25.00	-25.58

Table 7-63. 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	-	-	-	-70.63	5.03	41.40	-53.86	-25.00	-28.86
7920.0	-	-	-	-73.21	10.22	44.01	-51.25	-25.00	-26.25
10560.0	-	-	-	-75.92	14.05	45.13	-50.13	-25.00	-25.13

Table 7-64. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 200 of 221

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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]
5040.0	-	-	-	-80.84	6.90	33.06	-62.20	-25.00	-37.20
7560.0	-	-	-	-80.13	11.09	37.96	-57.30	-25.00	-32.30
10080.0	-	-	-	-81.73	14.16	39.43	-55.83	-25.00	-30.83

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]
5090.0	-	-	-	-80.39	7.36	33.97	-61.29	-25.00	-36.29
7635.0	-	-	-	-80.38	11.44	38.06	-57.20	-25.00	-32.20
10180.0	-	-	-	-81.71	14.78	40.07	-55.18	-25.00	-30.18

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]
5140.0	-	-	-	-80.31	7.08	33.77	-61.49	-25.00	-36.49
7710.0	-	-	-	-80.47	11.29	37.82	-57.44	-25.00	-32.44
10280.0	-	-	-	-81.34	14.57	40.23	-55.03	-25.00	-30.03

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

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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]
5032.0	H	-	-	-72.85	6.72	40.87	-54.38	-25.00	-29.38
7548.0	H	-	-	-73.26	11.04	44.78	-50.48	-25.00	-25.48
10064.0	H	-	-	-73.99	14.33	47.34	-47.92	-25.00	-22.92

Table 7-68. Radiated Spurious Data (ULCA LTE B41 – Low Channel)

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]
5032.0	H	-	-	-72.85	6.72	40.87	-54.38	-25.00	-29.38
7548.0	H	-	-	-73.26	11.04	44.78	-50.48	-25.00	-25.48
10064.0	H	-	-	-73.99	14.33	47.34	-47.92	-25.00	-22.92

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]
5380.0	H	-	-	-73.00	7.70	41.70	-53.56	-25.00	-28.56
8070.0	H	-	-	-73.58	11.65	45.07	-50.19	-25.00	-25.19
10760.0	H	-	-	-74.68	15.85	48.17	-47.08	-25.00	-22.08

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

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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7.7.3 Antenna 4b Radiated Spurious Emission Measurements

LTE Band 30

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	H	-	-	-80.59	6.45	32.86	-71.94	-40.00	-31.94
6922.5	H	-	-	-81.87	9.84	34.97	-69.83	-40.00	-29.83
9230.0	H	-	-	-83.51	11.68	35.17	-69.63	-40.00	-29.63

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	-	-	-80.58	6.48	32.90	-71.90	-40.00	-31.90
6930.0	H	-	-	-81.73	9.84	35.11	-69.69	-40.00	-29.69
9240.0	H	-	-	-83.51	12.00	35.49	-69.31	-40.00	-29.31

Table 7-72. Radiated Spurious Data (LTE Band 30 – 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]
4625.00	H	-	-	-80.84	6.48	32.64	-72.16	-40.00	-32.16
6937.50	H	-	-	-82.17	9.74	34.57	-70.23	-40.00	-30.23
9250.00	H	-	-	-83.33	11.92	35.59	-69.21	-40.00	-29.21

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

FCC ID: BCGA2301	 PART 27 MEASUREMENT REPORT		Approved by: Quality 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	-	-	-81.02	7.06	33.04	-71.76	-25.00	-46.76
7530.0	H	-	-	-82.80	10.61	34.81	-69.99	-25.00	-44.99
10040.0	H	-	-	-84.16	13.15	35.99	-68.81	-25.00	-43.81

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	-	-	-	-80.83	15.73	41.90	-62.90	-25.00	-37.90
7605.0	-	-	-	-80.19	20.44	47.25	-57.55	-25.00	-32.55
10140.0	-	-	-	-81.46	24.11	49.65	-55.15	-25.00	-30.15

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	-	-	-81.02	6.48	32.46	-72.34	-25.00	-47.34
7680.00	H	-	-	-82.48	10.02	34.54	-70.26	-25.00	-45.26
10240.00	H	-	-	-84.16	13.54	36.38	-68.42	-25.00	-43.42

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

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-78.82	6.72	34.90	-69.90	-25.00	-44.90
7518.0	V	-	-	-78.59	11.04	39.45	-65.35	-25.00	-40.35
10024.0	V	-	-	-80.68	14.33	40.65	-64.15	-25.00	-39.15

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	V	-	-	-77.72	6.36	35.64	-69.16	-25.00	-44.16
7779.0	V	-	-	-78.95	11.08	39.13	-65.67	-25.00	-40.67
10372.0	V	-	-	-79.73	14.96	42.23	-62.57	-25.00	-37.57

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	V	-	-	-79.71	7.70	34.99	-69.81	-25.00	-44.81
8040.0	V	-	-	-80.63	11.65	38.02	-66.78	-25.00	-41.78
10720.0	V	-	-	-81.32	15.85	41.53	-63.27	-25.00	-38.27

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

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-70.02	4.53	41.51	-63.29	-25.00	-38.29
7638.0	V	-	-	-72.35	8.92	43.57	-61.23	-25.00	-36.23
10184.0	V	-	-	-75.87	13.80	44.93	-59.87	-25.00	-34.87

Table 7-80. 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	-	-	-	-70.71	5.08	41.37	-63.43	-25.00	-38.43
7779.0	-	-	-	-72.09	8.58	43.49	-61.31	-25.00	-36.31
10372.0	-	-	-	-76.23	13.68	44.45	-60.35	-25.00	-35.35

Table 7-81. 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	-	-	-	-70.43	5.03	41.60	-63.20	-25.00	-38.20
7920.0	-	-	-	-73.01	10.22	44.21	-60.59	-25.00	-35.59
10560.0	-	-	-	-76.09	14.05	44.96	-59.84	-25.00	-34.84

Table 7-82. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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]
5040.0	-	-	-	-80.97	6.90	32.93	-62.33	-25.00	-37.33
7560.0	-	-	-	-80.10	11.09	37.99	-57.27	-25.00	-32.27
10080.0	-	-	-	-81.66	14.16	39.50	-55.76	-25.00	-30.76

Table 7-83. 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]
5090.0	-	-	-	-80.32	7.36	34.04	-61.22	-25.00	-36.22
7635.0	-	-	-	-80.41	11.44	38.03	-57.23	-25.00	-32.23
10180.0	-	-	-	-81.68	14.78	40.10	-55.15	-25.00	-30.15

Table 7-84. 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]
5140.0	-	-	-	-80.22	7.08	33.86	-61.40	-25.00	-36.40
7710.0	-	-	-	-80.46	11.29	37.83	-57.43	-25.00	-32.43
10280.0	-	-	-	-81.37	14.57	40.20	-55.06	-25.00	-30.06

Table 7-85. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
Test Report S/N: 1C2101020002-05-R1.BCG	Test Dates: 12/23/2020 - 03/05/2021	EUT Type: Tablet Device	Page 207 of 221

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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]
5032.0	H	-	-	-73.90	6.72	39.82	-64.98	-25.00	-39.98
7548.0	H	-	-	-73.80	11.04	44.24	-60.56	-25.00	-35.56
10064.0	H	-	-	-75.32	14.33	46.01	-58.79	-25.00	-33.79

Table 7-86. 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]
5206.0	H	-	-	-74.37	6.36	38.99	-65.81	-25.00	-40.81
7809.0	H	-	-	-75.55	11.08	42.53	-62.27	-25.00	-37.27
10412.0	H	-	-	-75.80	14.96	46.16	-58.64	-25.00	-33.64

Table 7-87. 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]
5380.0	H	-	-	-74.89	7.70	39.81	-64.99	-25.00	-39.99
8070.0	H	-	-	-75.12	11.65	43.53	-61.27	-25.00	-36.27
10760.0	H	-	-	-75.85	15.85	47.00	-57.80	-25.00	-32.80
13450.0	V	-	-	-81.93	18.93	44.00	-60.80	-25.00	-35.80
16140.0	V	-	-	-82.04	21.79	46.75	-58.05	-25.00	-33.05

Table 7-88. Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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 / 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	H	-	-	-80.66	6.45	32.79	-72.01	-40.00	-32.01
6922.5	H	-	-	-81.90	9.84	34.94	-69.86	-40.00	-29.86
9230.0	H	-	-	-83.61	11.68	35.07	-69.73	-40.00	-29.73

Table 7-89. 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	-	-	-80.84	6.48	32.64	-72.16	-40.00	-32.16
6930.0	H	-	-	-81.90	9.84	34.94	-69.86	-40.00	-29.86
9240.0	H	-	-	-83.45	12.00	35.55	-69.25	-40.00	-29.25

Table 7-90. Radiated Spurious Data (LTE Band 30 – 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]
4625.00	H	-	-	-80.64	6.48	32.84	-71.96	-40.00	-31.96
6937.50	H	-	-	-82.02	9.74	34.72	-70.08	-40.00	-30.08
9250.00	H	-	-	-83.34	11.92	35.58	-69.22	-40.00	-29.22

Table 7-91. Radiated Spurious Data (LTE Band 30 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-80.90	7.06	33.16	-71.64	-25.00	-46.64
7530.0	H	-	-	-82.97	10.61	34.64	-70.16	-25.00	-45.16
10040.0	H	-	-	-84.14	13.15	36.01	-68.79	-25.00	-43.79

Table 7-92. 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	-	-	-81.18	6.92	32.74	-72.06	-25.00	-47.06
7605.0	H	-	-	-82.72	10.67	34.95	-69.85	-25.00	-44.85
10140.0	H	-	-	-83.88	13.41	36.53	-68.27	-25.00	-43.27

Table 7-93. 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	-	-	-81.10	6.48	32.38	-72.42	-25.00	-47.42
7680.00	H	-	-	-82.43	10.02	34.59	-70.21	-25.00	-45.21
10240.00	H	-	-	-84.10	13.54	36.44	-68.36	-25.00	-43.36

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

FCC ID: BCGA2301	 Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-78.83	6.72	34.89	-69.91	-25.00	-44.91
7518.0	V	-	-	-78.69	11.04	39.35	-65.45	-25.00	-40.45
10024.0	V	-	-	-80.88	14.33	40.45	-64.35	-25.00	-39.35

Table 7-95. Radiated Spurious Data (LTE Band 41(PC2) – 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	-	-	-79.51	6.36	33.85	-70.95	-25.00	-45.95
7779.0	V	-	-	-79.22	11.08	38.86	-65.94	-25.00	-40.94
10372.0	V	-	-	-80.52	14.96	41.44	-63.36	-25.00	-38.36

Table 7-96. Radiated Spurious Data (LTE Band 41(PC2) – 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	-	-	-77.92	7.70	36.78	-68.02	-25.00	-43.02
8040.0	V	313	152	-79.05	11.65	39.60	-65.20	-25.00	-40.20
10720.0	V	-	-	-80.28	15.85	42.57	-62.23	-25.00	-37.23
13400.0	V	-	-	-80.85	18.93	45.08	-59.72	-25.00	-34.72
16080.0	V	-	-	-81.57	21.79	47.22	-57.58	-25.00	-32.58

Table 7-97. Radiated Spurious Data (LTE Band 41(PC2) – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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	-	-	-70.33	4.53	41.20	-63.60	-25.00	-38.60
7638.0	V	-	-	-72.32	8.92	43.60	-61.20	-25.00	-36.20
10184.0	V	-	-	-76.01	13.80	44.79	-60.01	-25.00	-35.01

Table 7-98. 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	-	-	-	-70.41	5.08	41.67	-63.13	-25.00	-38.13
7779.0	-	-	-	-71.99	8.58	43.59	-61.21	-25.00	-36.21
10372.0	-	-	-	-75.44	13.68	45.24	-59.56	-25.00	-34.56

Table 7-99. 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	-	-	-	-70.23	5.03	41.80	-63.00	-25.00	-38.00
7920.0	-	-	-	-73.12	10.22	44.10	-60.70	-25.00	-35.70
10560.0	-	-	-	-76.33	14.05	44.72	-60.08	-25.00	-35.08

Table 7-100. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality 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]
5040.0	-	-	-	-80.31	6.90	33.59	-61.67	-25.00	-36.67
7560.0	-	-	-	-80.45	11.09	37.64	-57.62	-25.00	-32.62
10080.0	-	-	-	-81.41	14.16	39.75	-55.51	-25.00	-30.51

Table 7-101. 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]
5090.0	-	-	-	-80.42	7.36	33.94	-61.32	-25.00	-36.32
7635.0	-	-	-	-80.32	11.44	38.12	-57.14	-25.00	-32.14
10180.0	-	-	-	-81.41	14.78	40.37	-54.88	-25.00	-29.88

Table 7-102. 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]
5140.0	-	-	-	-80.11	7.08	33.97	-61.29	-25.00	-36.29
7710.0	-	-	-	-80.43	11.29	37.86	-57.40	-25.00	-32.40
10280.0	-	-	-	-81.34	14.57	40.23	-55.03	-25.00	-30.03

Table 7-103. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of 	PART 27 MEASUREMENT REPORT	Approved by: Quality 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]
5032.0	H	-	-	-75.45	6.72	38.27	-66.53	-25.00	-41.53
7548.0	H	-	-	-75.64	11.04	42.40	-62.40	-25.00	-37.40
10064.0	H	-	-	-75.92	14.33	45.41	-59.39	-25.00	-34.39

Table 7-104. 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]
5206.0	H	-	-	-74.62	6.36	38.74	-66.06	-25.00	-41.06
7809.0	H	-	-	-75.65	11.08	42.43	-62.37	-25.00	-37.37
10412.0	H	-	-	-76.05	14.96	45.91	-58.89	-25.00	-33.89

Table 7-105. 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]
5380.0	H	-	-	-74.67	7.70	40.03	-64.77	-25.00	-39.77
8070.0	H	-	-	-76.18	11.65	42.47	-62.33	-25.00	-37.33
10760.0	H	-	-	-76.38	15.85	46.47	-58.33	-25.00	-33.33

Table 7-106. Radiated Spurious Data (ULCA LTE B41 – High Channel)

FCC ID: BCGA2301	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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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

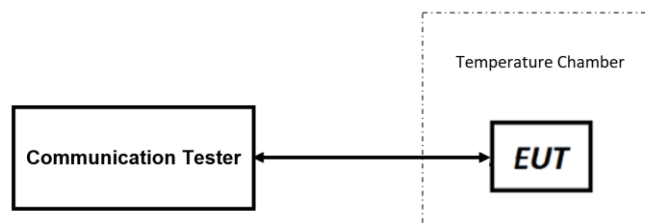


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All port were tested and only the worst case data were reported
2. NR bands with wider bandwidths compared to respective LTE bands have been investigated and worst case was reported. NR Bands with equal or lower bandwidths to respective LTE bands are covered by their respective LTE Bands.

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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 Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,499,990	2,312,499,989	-4.60	-5.65	-0.0000002
		- 20	2,307,499,990	2,312,499,989	-4.45	-5.67	-0.0000002
		- 10	2,307,499,989	2,312,499,989	-5.06	-5.98	-0.0000003
		0	2,307,499,990	2,312,499,990	-4.35	-5.32	-0.0000002
		+ 10	2,307,499,988	2,312,499,990	-5.79	-4.78	-0.0000003
		+ 20 (Ref)	2,307,499,994	2,312,499,995	0.00	0.00	0.0000000
		+ 30	2,307,499,990	2,312,499,990	-4.69	-5.27	-0.0000002
		+ 40	2,307,499,989	2,312,499,990	-5.25	-5.16	-0.0000002
		+ 50	2,307,499,989	2,312,499,990	-4.73	-5.10	-0.0000002
Battery Endpoint	3.23	+ 20	2,307,499,988	2,312,499,991	-5.97	-4.40	-0.0000003

Table 7-107. LTE Band 30 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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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):	3.80			
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,509,999,999	2,560,000,001	2.95	3.35	0.0000001
		- 20	2,510,000,000	2,560,000,001	3.50	3.94	0.0000002
		- 10	2,510,000,000	2,560,000,001	3.00	3.52	0.0000001
		0	2,509,999,999	2,560,000,000	2.89	2.53	0.0000001
		+ 10	2,509,999,998	2,560,000,001	1.09	3.81	0.0000002
		+ 20 (Ref)	2,509,999,997	2,559,999,997	0.00	0.00	0.0000000
		+ 30	2,509,999,995	2,559,999,993	-1.93	-4.62	-0.0000001
		+ 40	2,509,999,993	2,559,999,992	-3.11	-5.31	-0.0000001
		+ 50	2,509,999,994	2,559,999,992	-2.85	-5.72	-0.0000001
Battery Endpoint	3.23	+ 20	2,509,999,992	2,559,999,993	-4.63	-4.62	-0.0000002

Table 7-108. LTE Band 7 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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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 Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	DFviation (%)
100 %	3.80	- 30	2,505,999,979	2,579,999,977	-12.02	-13.00	-0.0000005
		- 20	2,505,999,979	2,579,999,981	-11.86	-9.00	-0.0000005
		- 10	2,505,999,978	2,579,999,978	-12.75	-12.00	-0.0000005
		0	2,505,999,979	2,579,999,979	-11.90	-11.00	-0.0000005
		+ 10	2,505,999,981	2,579,999,981	-9.26	-9.00	-0.0000004
		+ 20 (Ref)	2,505,999,991	2,579,999,990	0.00	0.00	0.0000000
		+ 30	2,505,999,983	2,579,999,978	-7.77	-12.00	-0.0000005
		+ 40	2,505,999,980	2,579,999,981	-10.04	-9.00	-0.0000004
		+ 50	2,505,999,980	2,579,999,977	-10.43	-13.00	-0.0000005
Battery Endpoint	3.23	+ 20	2,505,999,978	2,579,999,978	-13.00	-12.00	-0.0000005

Table 7-109. LTE Band 41 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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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):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,545,239,647	2,639,156,057	-464,333.00	-379,821.00	-0.0250666
		- 20	2,545,266,570	2,639,072,878	-437,410.00	-463,000.00	-0.0249946
		- 10	2,545,237,600	2,639,138,878	-466,380.00	-397,000.00	-0.0251771
		0	2,545,279,850	2,639,122,878	-424,130.00	-413,000.00	-0.0228962
		+ 10	2,545,398,000	2,639,149,878	-305,980.00	-386,000.00	-0.0208378
		+ 20 (Ref)	2,545,703,980	2,639,535,878	0.00	0.00	0.0000000
		+ 30	2,545,236,930	2,639,152,878	-467,050.00	-383,000.00	-0.0252132
		+ 40	2,545,410,680	2,639,080,878	-293,300.00	-455,000.00	-0.0245627
		+ 50	2,545,377,823	2,639,059,981	-326,157.00	-475,897.00	-0.0256908
Battery Endpoint	3.23	+ 20	2,545,342,730	2,639,151,878	-361,250.00	-384,000.00	-0.0207299

Table 7-110. NR Band n41 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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Frequency Stability / Temperature Variation

NR Band n77							
			Low Channel Frequency (Hz):		3,750,000,000		
			High Channel Frequency (Hz):		3,930,000,000		
			Ref. Voltage (VDC):		3.80		
Voltage (%)	Power (VDC)	Temp (°C)	Low Frequency (Hz)	High Frequency (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	3,749,550,349	3,929,544,686	-369.48	-398.13	-0.0000215
		- 20	3,749,550,345	3,929,544,694	-372.76	-390.21	-0.0000211
		- 10	3,749,550,331	3,929,544,690	-387.28	-394.48	-0.0000213
		0	3,749,550,329	3,929,544,692	-389.08	-391.61	-0.0000211
		+ 10	3,749,550,337	3,929,544,680	-381.19	-404.36	-0.0000218
		+ 20 (Ref)	3,749,550,718	3,929,545,084	0.00	0.00	0.0000000
		+ 30	3,749,550,334	3,929,544,689	-383.91	-394.83	-0.0000213
		+ 40	3,749,550,346	3,929,544,702	-372.06	-381.79	-0.0000206
		+ 50	3,749,550,323	3,929,544,703	-394.88	-380.51	-0.0000213
Battery Endpoint	3.23	+ 20	3,749,550,340	3,929,544,690	-377.72	-394.45	-0.0000213

Table 7-111. NR Band n77 Frequency Stability Data

The lowest and highest channel of this band have been tested and is determined to remain operating in-band over the temperature and voltage range as tested

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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: BCGA2301** complies with all the requirements of Part 27 of the FCC rules.

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