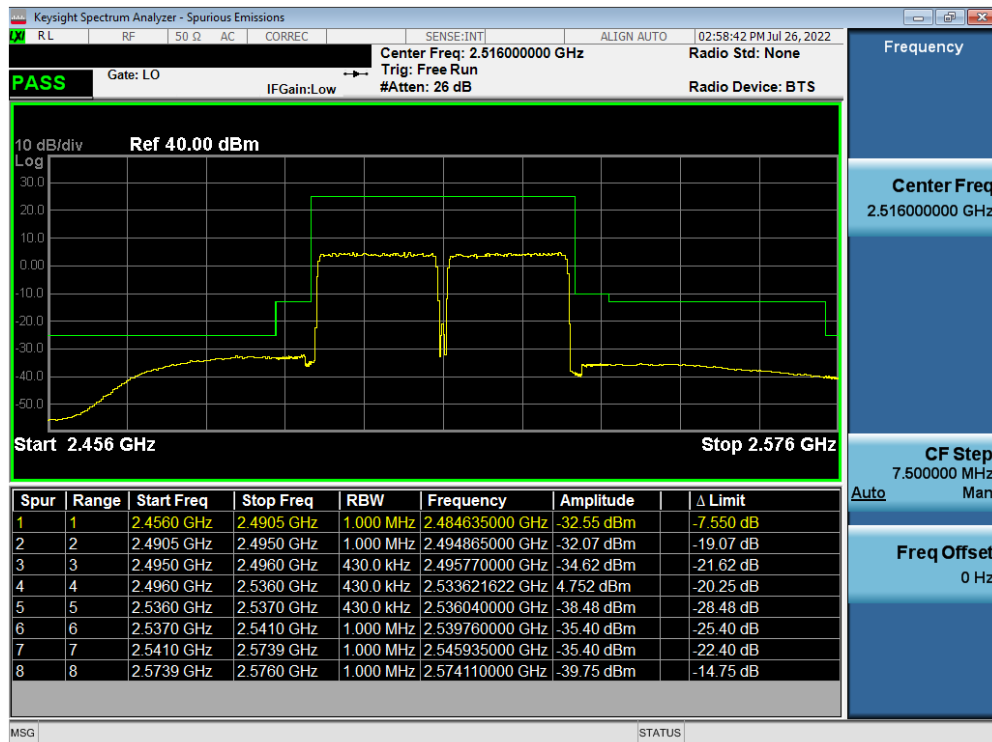
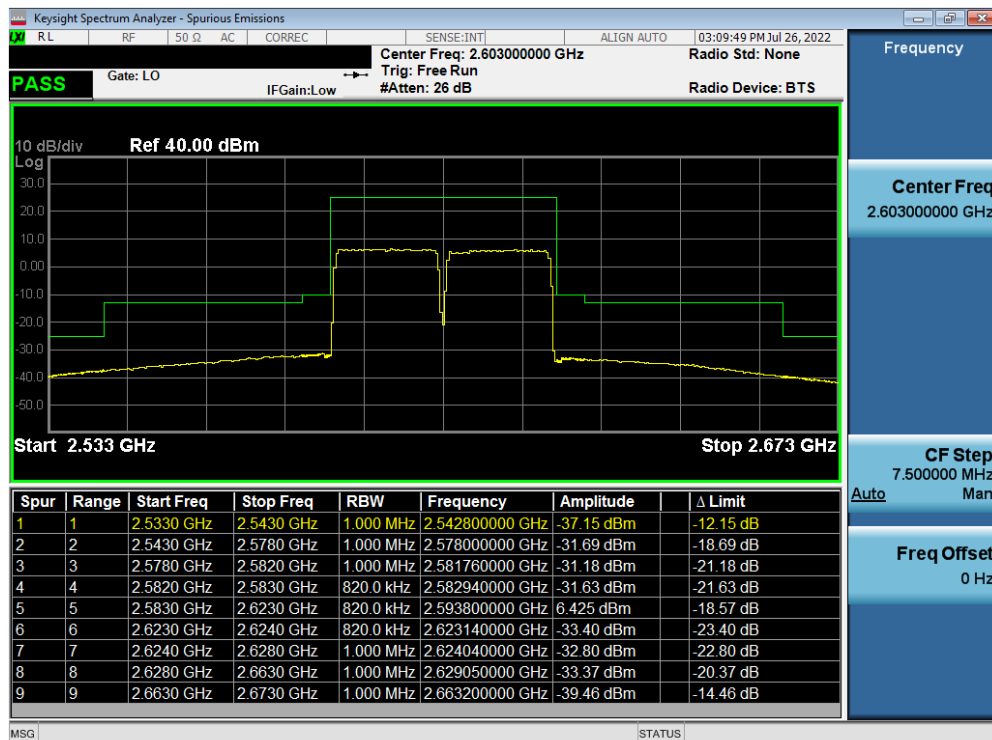


ULCA - LTE Band 41



Plot 7-302. Lower ACP Plot (ULCA LTE B41 – (20+20)MHz QPSK – Full RB)

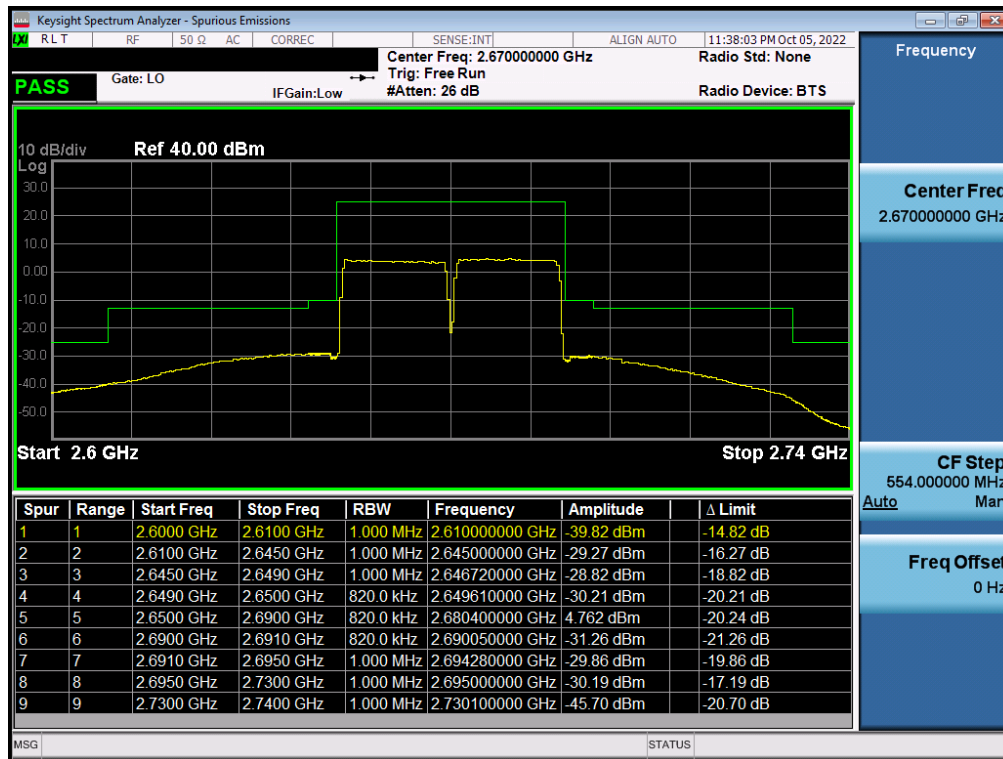


Plot 7-303. Middle ACP Plot (ULCA LTE B41 – (20+20)MHz QPSK – Full RB)

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Plot 7-304. Upper ACP Plot (ULCA LTE B41 – (20+20)MHz QPSK – Full RB)

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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 971168 D01 v03

Test Setup

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

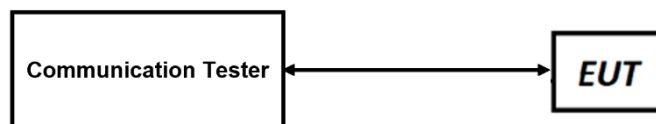


Figure 7-4. Conducted Power Measurement Setup

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	26.05	24.7	1.35			
16-QAM										1	24.51	23.7	0.81				
64-QAM										2	23.20	22.7	0.50				
256-QAM										4	21.39	20.7	0.69				
2				5	39675	2498.5	1	9	0	QPSK	0	28.55	27.7	0.85			
16-QAM										1	27.30	26.7	0.60				
64-QAM										2	27.38	25.7	1.68				
256-QAM										4	24.71	23.7	1.01				
3				10	39700	2501	1	0	5	QPSK	0	23.48	22.7	0.78			
16-QAM										1	23.42	21.7	1.72				
64-QAM										2	22.39	20.7	1.69				
256-QAM										4	19.66	18.7	0.96				
4				10	39700	2501	20	0	2	QPSK	0	26.27	25.7	0.57			
16-QAM										1	25.38	24.7	0.68				
64-QAM										2	24.24	23.7	0.54				
256-QAM										4	22.25	21.7	0.55				
5				10	39700	2501	50	0	3	QPSK	0	25.26	24.7	0.56			
16-QAM										1	24.20	23.7	0.50				
64-QAM										2	23.22	22.7	0.52				
256-QAM										4	21.30	20.7	0.60				
6				10	39700	2501	25	20	1	QPSK	0	27.21	26.7	0.51			
16-QAM										1	26.26	25.7	0.56				
64-QAM										2	25.35	24.7	0.65				
256-QAM										4	23.30	22.7	0.60				
7				10	39700	2501	1	36	0	QPSK	0	28.70	27.7	1.00			
16-QAM										1	27.55	26.7	0.85				
64-QAM										2	27.81	25.7	2.11				
256-QAM										4	24.61	23.7	0.91				
8				15	39725	2503.5	1	0	5	QPSK	0	23.54	22.7	0.84			
16-QAM										1	22.65	21.7	0.95				
64-QAM										2	21.45	20.7	0.75				
256-QAM										4	19.57	18.7	0.87				
9				15	39725	2503.5	20	0	2	QPSK	0	26.16	25.7	0.46			
16-QAM										1	25.18	24.7	0.48				
64-QAM										2	24.18	23.7	0.48				
256-QAM										4	22.20	21.7	0.50				
10				15	39725	2503.5	75	0	4	QPSK	0	24.20	23.7	0.50			
16-QAM										1	23.22	22.7	0.52				
64-QAM										2	22.23	21.7	0.53				
256-QAM										4	20.26	19.7	0.56				
11				15	39725	2503.5	50	15	3	QPSK	0	25.20	24.7	0.50			
16-QAM										1	24.21	23.7	0.51				
64-QAM										2	23.20	22.7	0.50				
256-QAM										4	21.18	20.7	0.48				
12				15	39725	2503.5	1	60	0	QPSK	0	28.68	27.7	0.98			
16-QAM										1	28.13	26.7	1.43				
64-QAM										2	27.37	25.7	1.67				
256-QAM										4	24.53	23.7	0.83				
13				20	39750	2506	1	0	5	QPSK	0	23.36	22.7	0.66			
16-QAM										1	23.58	21.7	1.88				
64-QAM										2	21.36	20.7	0.66				
256-QAM										4	19.50	18.7	0.80				
14				20	39750	2506	20	0	2	QPSK	0	26.08	25.7	0.38			
16-QAM										1	25.15	24.7	0.45				
64-QAM										2	24.19	23.7	0.49				
256-QAM										4	22.17	21.7	0.47				
15				20	39750	2506	100	0	4	QPSK	0	24.13	23.7	0.43			
16-QAM										1	23.20	22.7	0.50				
64-QAM										2	22.18	21.7	0.48				
256-QAM										4	20.17	19.7	0.47				
16				20	39750	2506	75	24	3	QPSK	0	25.06	24.7	0.36			
16-QAM										1	24.23	23.7	0.53				
64-QAM										2	23.17	22.7	0.47				
256-QAM										4	21.15	20.7	0.45				
17				20	39750	2506	1	77	0	QPSK	0	28.70	27.7	1.00			
16-QAM										1	28.32	26.7	1.62				
64-QAM										2	27.5	25.7	1.80				
256-QAM										4	24.55	23.7	0.85				
18				01	311	490	5	39675	2498.5	1	0	3	QPSK	0	25.47	24.7	0.77
													16-QAM	1	24.32	23.7	0.62
													64-QAM	2	24.52	22.7	1.82
													256-QAM	4	21.42	20.7	0.72
19	01	001	01	5	39675	2498.5	1	0	0	QPSK	0	28.68	27.7	0.98			
										16-QAM	1	28.32	26.7	1.62			
										64-QAM	2	27.83	25.7	2.13			
										256-QAM	4	24.5	23.7	0.80			

Table 7-2. A-MPR Conducted Power Measurements

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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 = Equivalent Isotropic Radiated Power (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 dBi (EIRP)

Test Setup

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

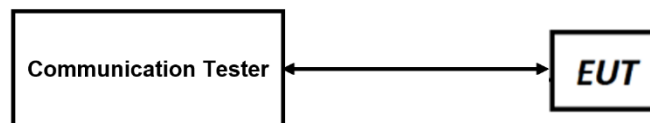


Figure 7-5. EIRP Measurement Setup

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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 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]
5 MHz	QPSK	2307.5	0.50	1 / 12	22.50	23.00	0.200	23.98	-0.98
		2310.0	0.50	1 / 12	22.38	22.88	0.194	23.98	-1.10
		2312.5	0.50	1 / 12	22.21	22.71	0.187	23.98	-1.27
	16-QAM	2307.5	0.50	1 / 12	21.55	22.05	0.160	23.98	-1.93
	64-QAM	2312.5	0.50	1 / 12	20.57	21.07	0.128	23.98	-2.91
	256-QAM	2307.5	0.50	1 / 12	17.67	18.17	0.066	23.98	-5.81
10 MHz	QPSK	2310.0	0.50	1 / 25	22.50	23.00	0.200	23.98	-0.98
	16-QAM	2310.0	0.50	1 / 0	21.80	22.30	0.170	23.98	-1.68
	64-QAM	2310.0	0.50	1 / 25	20.66	21.16	0.131	23.98	-2.82
	256-QAM	2310.0	0.50	1 / 25	17.87	18.37	0.069	23.98	-5.61

Table 7-3. Antenna 4b EIRP Data (LTE Band 30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
5 MHz	QPSK	2502.5	-0.80	1 / 12	25.70	24.90	0.309	33.01	-8.11
		2535.0	-0.80	1 / 12	25.43	24.63	0.290	33.01	-8.38
		2567.5	-0.80	1 / 12	25.29	24.49	0.281	33.01	-8.52
	16-QAM	2502.5	-0.80	1 / 12	24.77	23.97	0.249	33.01	-9.04
	64-QAM	2502.5	-0.80	1 / 0	23.93	23.13	0.206	33.01	-9.88
	256-QAM	2502.5	-0.80	1 / 24	21.03	20.23	0.105	33.01	-12.78
10 MHz	QPSK	2505.0	-0.80	1 / 49	25.51	24.71	0.296	33.01	-8.30
		2535.0	-0.80	1 / 49	25.70	24.90	0.309	33.01	-8.11
		2565.0	-0.80	1 / 25	25.44	24.64	0.291	33.01	-8.37
	16-QAM	2505.0	-0.80	1 / 0	24.78	23.98	0.250	33.01	-9.03
	64-QAM	2565.0	-0.80	1 / 25	24.09	23.29	0.213	33.01	-9.72
	256-QAM	2505.0	-0.80	1 / 25	20.83	20.03	0.101	33.01	-12.98
15 MHz	QPSK	2507.5	-0.80	1 / 37	25.67	24.87	0.307	33.01	-8.14
		2535.0	-0.80	1 / 74	25.70	24.90	0.309	33.01	-8.11
		2562.5	-0.80	75 / 0	25.66	24.86	0.306	33.01	-8.15
	16-QAM	2535.0	-0.80	1 / 37	24.76	23.96	0.249	33.01	-9.05
	64-QAM	2507.5	-0.80	1 / 37	24.11	23.31	0.214	33.01	-9.70
	256-QAM	2562.5	-0.80	75 / 0	21.70	20.90	0.123	33.01	-12.11
20 MHz	QPSK	2510.0	-0.80	1 / 50	25.65	24.85	0.305	33.01	-8.16
		2535.0	-0.80	1 / 0	25.58	24.78	0.301	33.01	-8.23
		2560.0	-0.80	1 / 50	25.70	24.90	0.309	33.01	-8.11
	16-QAM	2535.0	-0.80	1 / 50	25.08	24.28	0.268	33.01	-8.73
	64-QAM	2535.0	-0.80	1 / 50	24.10	23.30	0.214	33.01	-9.71
	256-QAM	2560.0	-0.80	1 / 0	21.67	20.87	0.122	33.01	-12.14

Table 7-4. Antenna 4b 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]
5 MHz	QPSK	2498.5	-1.10	1 / 12	27.70	26.60	0.457	33.01	-6.41
		2593.0	-1.10	1 / 12	27.55	26.45	0.442	33.01	-6.56
		2687.5	-1.10	1 / 12	27.27	26.17	0.414	33.01	-6.84
	16-QAM	2593.0	-1.10	1 / 12	27.18	26.08	0.406	33.01	-6.93
	64-QAM	2498.5	-1.10	1 / 12	26.21	25.11	0.324	33.01	-7.90
	256-QAM	2498.5	-1.10	1 / 24	23.32	22.22	0.167	33.01	-10.79
10 MHz	QPSK	2501.0	-1.10	1 / 0	27.70	26.60	0.457	33.01	-6.41
		2593.0	-1.10	1 / 0	27.57	26.47	0.444	33.01	-6.54
		2685.0	-1.10	1 / 25	27.36	26.26	0.423	33.01	-6.75
	16-QAM	2501.0	-1.10	1 / 25	27.03	25.93	0.392	33.01	-7.08
	64-QAM	2593.0	-1.10	1 / 0	25.93	24.83	0.304	33.01	-8.18
	256-QAM	2501.0	-1.10	1 / 0	23.53	22.43	0.175	33.01	-10.58
15 MHz	QPSK	2503.5	-1.10	1 / 37	27.70	26.60	0.457	33.01	-6.41
		2593.0	-1.10	1 / 37	27.62	26.52	0.449	33.01	-6.49
		2682.5	-1.10	1 / 0	27.23	26.13	0.410	33.01	-6.88
	16-QAM	2503.5	-1.10	1 / 37	26.85	25.75	0.376	33.01	-7.26
	64-QAM	2593.0	-1.10	1 / 37	26.05	24.95	0.313	33.01	-8.06
	256-QAM	2503.5	-1.10	1 / 37	23.26	22.16	0.164	33.01	-10.85
20 MHz	QPSK	2506.0	-1.10	1 / 50	27.70	26.60	0.457	33.01	-6.41
		2593.0	-1.10	1 / 50	27.65	26.55	0.452	33.01	-6.46
		2680.0	-1.10	1 / 0	27.49	26.39	0.436	33.01	-6.62
	16-QAM	2506.0	-1.10	1 / 50	27.60	26.50	0.447	33.01	-6.51
	64-QAM	2680.0	-1.10	1 / 99	26.15	25.05	0.320	33.01	-7.96
	256-QAM	2680.0	-1.10	1 / 0	22.70	21.60	0.145	33.01	-11.41

Table 7-5. Antenna 4b EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical 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]
5 MHz	QPSK	2498.5	-1.10	1 / 12	25.70	24.60	0.288	33.01	-8.41
		2593.0	-1.10	1 / 0	25.67	24.57	0.286	33.01	-8.44
		2687.5	-1.10	1 / 0	25.51	24.41	0.276	33.01	-8.60
	16-QAM	2593.0	-1.10	1 / 12	25.18	24.08	0.256	33.01	-8.93
	64-QAM	2498.5	-1.10	1 / 12	24.21	23.11	0.205	33.01	-9.90
	256-QAM	2593.0	-1.10	1 / 0	21.70	20.60	0.115	33.01	-12.41
10 MHz	QPSK	2501.0	-1.10	1 / 0	25.70	24.60	0.288	33.01	-8.41
		2593.0	-1.10	1 / 0	25.57	24.47	0.280	33.01	-8.54
		2685.0	-1.10	1 / 0	25.55	24.45	0.279	33.01	-8.56
	16-QAM	2501.0	-1.10	1 / 25	25.03	23.93	0.247	33.01	-9.08
	64-QAM	2593.0	-1.10	1 / 0	23.93	22.83	0.192	33.01	-10.18
	256-QAM	2685.0	-1.10	1 / 0	21.59	20.49	0.112	33.01	-12.52
15 MHz	QPSK	2503.5	-1.10	1 / 37	25.70	24.60	0.288	33.01	-8.41
		2593.0	-1.10	1 / 37	25.62	24.52	0.283	33.01	-8.49
		2682.5	-1.10	1 / 0	25.41	24.31	0.270	33.01	-8.70
	16-QAM	2503.5	-1.10	1 / 37	24.85	23.75	0.237	33.01	-9.26
	64-QAM	2593.0	-1.10	1 / 37	24.05	22.95	0.197	33.01	-10.06
	256-QAM	2503.5	-1.10	1 / 0	21.72	20.62	0.115	33.01	-12.39
20 MHz	QPSK	2506.0	-1.10	1 / 50	25.70	24.60	0.288	33.01	-8.41
		2593.0	-1.10	1 / 50	25.65	24.55	0.285	33.01	-8.46
		2680.0	-1.10	1 / 0	25.49	24.39	0.275	33.01	-8.62
	16-QAM	2506.0	-1.10	1 / 50	25.60	24.50	0.282	33.01	-8.51
	64-QAM	2680.0	-1.10	1 / 99	24.15	23.05	0.202	33.01	-9.96
	256-QAM	2593.0	-1.10	1 / 0	21.58	20.48	0.112	33.01	-12.53

Table 7-6. Antenna 4b EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 187 of 278

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NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2307.5	0.50	1 / 1	22.44	22.94	0.197	23.98	-1.04
		2310.0	0.50	1 / 23	22.50	23.00	0.200	23.98	-0.98
		2312.5	0.50	1 / 12	22.46	22.96	0.198	23.98	-1.01
	QPSK	2307.5	0.50	1 / 1	22.33	22.83	0.192	23.98	-1.15
		2310.0	0.50	1 / 23	22.40	22.90	0.195	23.98	-1.08
		2312.5	0.50	1 / 12	22.33	22.83	0.192	23.98	-1.15
	16-QAM	2310.0	0.50	1 / 1	21.52	22.02	0.159	23.98	-1.96
	64-QAM	2312.5	0.50	1 / 23	20.22	20.72	0.118	23.98	-3.26
	256-QAM	2307.5	0.50	1 / 12	17.90	18.40	0.069	23.98	-5.58
10 MHz	$\pi/2$ BPSK	2310.0	0.50	1 / 50	22.50	23.00	0.200	23.98	-0.98
	QPSK	2310.0	0.50	1 / 50	22.30	22.80	0.191	23.98	-1.18
	16-QAM	2310.0	0.50	1 / 25	21.48	21.98	0.158	23.98	-2.00
	64-QAM	2310.0	0.50	1 / 50	20.22	20.72	0.118	23.98	-3.26
	256-QAM	2310.0	0.50	1 / 25	17.95	18.45	0.070	23.98	-5.53

Table 7-7. Antenna 4b EIRP Data (NR Band n30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 188 of 278

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NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2502.5	-0.80	1 / 23	25.60	24.80	0.302	33.01	-8.21
		2535.0	-0.80	1 / 1	25.57	24.77	0.300	33.01	-8.24
		2567.5	-0.80	1 / 12	25.70	24.90	0.309	33.01	-8.11
	QPSK	2502.5	-0.80	1 / 23	25.62	24.82	0.303	33.01	-8.19
		2535.0	-0.80	1 / 12	25.64	24.84	0.305	33.01	-8.17
		2567.5	-0.80	1 / 1	25.62	24.82	0.303	33.01	-8.19
	16-QAM	2535.0	-0.80	1 / 1	24.67	23.87	0.244	33.01	-9.14
	64-QAM	2535.0	-0.80	1 / 12	23.70	22.90	0.195	33.01	-10.11
10 MHz	π/2 BPSK	2505.0	-0.80	1 / 25	25.68	24.88	0.308	33.01	-8.13
		2535.0	-0.80	1 / 50	25.43	24.63	0.290	33.01	-8.38
		2565.0	-0.80	1 / 50	25.70	24.90	0.309	33.01	-8.11
	QPSK	2505.0	-0.80	1 / 50	25.66	24.86	0.306	33.01	-8.15
		2535.0	-0.80	1 / 1	25.43	24.63	0.290	33.01	-8.38
		2565.0	-0.80	1 / 1	25.57	24.77	0.300	33.01	-8.24
	16-QAM	2565.0	-0.80	1 / 1	24.74	23.94	0.248	33.01	-9.07
	64-QAM	2535.0	-0.80	1 / 25	23.71	22.91	0.195	33.01	-10.10
15 MHz	π/2 BPSK	2505.0	-0.80	1 / 25	23.71	22.91	0.195	33.01	-10.10
		2535.0	-0.80	1 / 50	23.71	22.91	0.195	33.01	-10.10
		2565.0	-0.80	1 / 50	20.72	19.92	0.098	33.01	-13.09
	QPSK	2507.5	-0.80	1 / 73	25.58	24.78	0.301	33.01	-8.23
		2535.0	-0.80	1 / 37	25.70	24.90	0.309	33.01	-8.11
		2562.5	-0.80	1 / 37	25.56	24.76	0.299	33.01	-8.25
	16-QAM	2507.5	-0.80	1 / 73	25.65	24.85	0.305	33.01	-8.16
	64-QAM	2535.0	-0.80	1 / 1	25.64	24.84	0.305	33.01	-8.17
20 MHz	π/2 BPSK	2507.5	-0.80	1 / 73	25.68	24.88	0.308	33.01	-8.13
		2535.0	-0.80	1 / 73	24.51	23.71	0.235	33.01	-9.30
		2562.5	-0.80	1 / 37	20.68	19.88	0.097	33.01	-13.13
	QPSK	2510.0	-0.80	1 / 50	25.48	24.68	0.294	33.01	-8.33
		2535.0	-0.80	1 / 50	25.70	24.90	0.309	33.01	-8.11
		2560.0	-0.80	1 / 50	25.65	24.85	0.305	33.01	-8.16
	16-QAM	2510.0	-0.80	1 / 98	25.58	24.78	0.301	33.01	-8.23
	64-QAM	2535.0	-0.80	1 / 1	25.69	24.89	0.308	33.01	-8.12
25 MHz	π/2 BPSK	2510.0	-0.80	1 / 98	25.62	24.82	0.303	33.01	-8.19
		2535.0	-0.80	1 / 1	24.69	23.89	0.245	33.01	-9.12
		2560.0	-0.80	1 / 50	23.66	22.86	0.193	33.01	-10.15
	QPSK	2510.0	-0.80	1 / 50	23.66	22.86	0.193	33.01	-10.15
		2535.0	-0.80	1 / 1	20.68	19.88	0.097	33.01	-13.13
		2560.0	-0.80	1 / 1	25.12.5	24.32	0.299	33.01	-8.25
	16-QAM	2512.5	-0.80	1 / 1	25.61	24.81	0.303	33.01	-8.20
	64-QAM	2535.0	-0.80	1 / 66	25.56	24.76	0.299	33.01	-8.25
30 MHz	π/2 BPSK	2512.5	-0.80	1 / 66	25.56	24.76	0.299	33.01	-8.25
		2535.0	-0.80	1 / 131	25.68	24.88	0.308	33.01	-8.13
		2557.5	-0.80	1 / 131	25.68	24.88	0.308	33.01	-8.13
	QPSK	2512.5	-0.80	1 / 1	25.70	24.90	0.309	33.01	-8.11
		2535.0	-0.80	1 / 66	25.62	24.82	0.303	33.01	-8.19
		2557.5	-0.80	1 / 66	25.41	24.61	0.289	33.01	-8.40
	16-QAM	2557.5	-0.80	1 / 66	24.68	23.88	0.244	33.01	-9.13
	64-QAM	2512.5	-0.80	1 / 1	23.73	22.93	0.196	33.01	-10.08
40 MHz	π/2 BPSK	2535.0	-0.80	1 / 1	20.72	19.92	0.098	33.01	-13.09
		2550.0	-0.80	1 / 108	25.60	24.80	0.302	33.01	-8.21
		2555.0	-0.80	1 / 158	25.47	24.67	0.293	33.01	-8.34
	QPSK	2515.0	-0.80	1 / 158	25.68	24.88	0.308	33.01	-8.13
		2535.0	-0.80	1 / 80	25.64	24.84	0.305	33.01	-8.17
		2555.0	-0.80	1 / 80	25.62	24.82	0.303	33.01	-8.19
	16-QAM	2515.0	-0.80	1 / 158	25.70	24.90	0.309	33.01	-8.11
	64-QAM	2535.0	-0.80	1 / 1	24.68	23.88	0.244	33.01	-9.13
40 MHz	π/2 BPSK	2535.0	-0.80	1 / 1	23.65	22.85	0.193	33.01	-10.16
		2550.0	-0.80	1 / 80	20.68	19.88	0.097	33.01	-13.13
		2555.0	-0.80	1 / 108	25.20	24.40	0.305	33.01	-8.17
	QPSK	2520.0	-0.80	1 / 108	25.64	24.84	0.305	33.01	-8.17
		2535.0	-0.80	1 / 214	25.36	24.56	0.286	33.01	-8.45
		2550.0	-0.80	1 / 214	25.59	24.79	0.301	33.01	-8.22
	16-QAM	2520.0	-0.80	1 / 108	25.56	24.76	0.299	33.01	-8.25
	64-QAM	2535.0	-0.80	1 / 1	25.70	24.90	0.309	33.01	-8.11
40 MHz	π/2 BPSK	2550.0	-0.80	1 / 214	25.43	24.63	0.290	33.01	-8.38
		2555.0	-0.80	1 / 214	24.61	23.81	0.240	33.01	-9.20
		2550.0	-0.80	1 / 108	23.66	22.86	0.193	33.01	-10.15
	QPSK	2550.0	-0.80	1 / 108	20.68	19.88	0.097	33.01	-13.13
		2555.0	-0.80	1 / 108	20.68	19.88	0.097	33.01	-13.13
		2550.0	-0.80	1 / 108	20.68	19.88	0.097	33.01	-13.13
	16-QAM	2550.0	-0.80	1 / 108	20.68	19.88	0.097	33.01	-13.13
	64-QAM	2550.0	-0.80	1 / 108	20.68	19.88	0.097	33.01	-13.13

Table 7-8. Antenna 4b EIRP Data (NR Band n7)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 189 of 278

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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]
20 MHz	π/2 BPSK	2506.0	-1.10	1 / 1	28.61	27.51	0.564	33.01	-5.50
		2593.0	-1.10	1 / 1	28.70	27.60	0.575	33.01	-5.41
		2680.0	-1.10	1 / 1	28.49	27.39	0.548	33.01	-5.62
	QPSK	2506.0	-1.10	1 / 49	28.60	27.50	0.562	33.01	-5.51
		2593.0	-1.10	1 / 49	28.43	27.33	0.541	33.01	-5.68
		2680.0	-1.10	1 / 25	28.68	27.58	0.573	33.01	-5.43
	16-QAM	2593.0	-1.10	1 / 25	27.70	26.60	0.457	33.01	-6.41
	64-QAM	2593.0	-1.10	1 / 1	26.69	25.59	0.362	33.01	-7.42
	256-QAM	2506.0	-1.10	1 / 49	23.60	22.50	0.178	33.01	-10.51
	256-QAM	2511.0	-1.10	1 / 1	28.63	27.53	0.566	33.01	-5.48
30 MHz	π/2 BPSK	2593.0	-1.10	1 / 76	28.70	27.60	0.575	33.01	-5.41
		2675.0	-1.10	1 / 39	28.52	27.42	0.552	33.01	-5.59
		2511.0	-1.10	1 / 76	28.65	27.55	0.569	33.01	-5.46
	QPSK	2593.0	-1.10	1 / 39	28.67	27.57	0.571	33.01	-5.44
		2675.0	-1.10	1 / 39	28.65	27.55	0.569	33.01	-5.46
		2511.0	-1.10	1 / 1	27.68	26.58	0.455	33.01	-6.43
	16-QAM	2511.0	-1.10	1 / 1	26.60	25.50	0.355	33.01	-7.51
	64-QAM	2511.0	-1.10	1 / 76	23.70	22.60	0.182	33.01	-10.41
	256-QAM	2516.0	-1.10	1 / 104	28.57	27.47	0.558	33.01	-5.54
	256-QAM	2593.0	-1.10	1 / 104	28.70	27.60	0.575	33.01	-5.41
40 MHz	π/2 BPSK	2670.0	-1.10	1 / 104	28.50	27.40	0.550	33.01	-5.61
		2516.0	-1.10	1 / 1	28.56	27.46	0.557	33.01	-5.55
		2593.0	-1.10	1 / 53	28.57	27.47	0.558	33.01	-5.54
	QPSK	2670.0	-1.10	1 / 53	28.40	27.30	0.537	33.01	-5.71
		2670.0	-1.10	1 / 53	27.70	26.60	0.457	33.01	-6.41
		2516.0	-1.10	1 / 53	26.69	25.59	0.362	33.01	-7.42
	16-QAM	2516.0	-1.10	1 / 104	23.70	22.60	0.182	33.01	-10.41
	64-QAM	2670.0	-1.10	1 / 131	28.70	27.60	0.575	33.01	-5.41
	256-QAM	2521.0	-1.10	1 / 131	28.64	27.54	0.568	33.01	-5.47
	256-QAM	2665.0	-1.10	1 / 1	28.51	27.41	0.551	33.01	-5.60
50 MHz	π/2 BPSK	2521.0	-1.10	1 / 66	28.68	27.58	0.573	33.01	-5.43
		2593.0	-1.10	1 / 131	28.57	27.47	0.558	33.01	-5.54
		2665.0	-1.10	1 / 1	28.70	27.60	0.575	33.01	-5.41
	QPSK	2665.0	-1.10	1 / 66	27.59	26.49	0.446	33.01	-6.52
		2521.0	-1.10	1 / 1	26.66	25.56	0.360	33.01	-7.45
		2521.0	-1.10	1 / 131	23.68	22.58	0.181	33.01	-10.43
	16-QAM	2526.0	-1.10	1 / 160	28.54	27.44	0.555	33.01	-5.57
	64-QAM	2593.0	-1.10	1 / 1	28.65	27.55	0.569	33.01	-5.46
	256-QAM	2660.0	-1.10	1 / 1	28.51	27.41	0.551	33.01	-5.60
	256-QAM	2526.0	-1.10	1 / 160	28.56	27.46	0.557	33.01	-5.55
60 MHz	π/2 BPSK	2593.0	-1.10	1 / 160	28.70	27.60	0.575	33.01	-5.41
		2660.0	-1.10	1 / 160	28.69	27.59	0.574	33.01	-5.42
		2526.0	-1.10	1 / 1	27.69	26.59	0.456	33.01	-6.42
	QPSK	2593.0	-1.10	1 / 81	26.71	25.61	0.364	33.01	-7.40
		2660.0	-1.10	1 / 1	27.69	26.59	0.456	33.01	-6.42
		2526.0	-1.10	1 / 81	23.69	22.59	0.182	33.01	-10.42
	16-QAM	2593.0	-1.10	1 / 1	28.41	27.31	0.538	33.01	-5.70
	64-QAM	2593.0	-1.10	1 / 1	28.52	27.42	0.552	33.01	-5.59
	256-QAM	2655.0	-1.10	1 / 1	28.38	27.28	0.535	33.01	-5.73
	256-QAM	2531.0	-1.10	1 / 1	28.43	27.33	0.541	33.01	-5.68
70 MHz	π/2 BPSK	2593.0	-1.10	1 / 1	28.57	27.47	0.558	33.01	-5.54
		2655.0	-1.10	1 / 1	28.56	27.46	0.557	33.01	-5.55
		2531.0	-1.10	1 / 1	27.56	26.46	0.443	33.01	-6.55
	QPSK	2655.0	-1.10	1 / 1	26.54	25.44	0.350	33.01	-7.57
		2531.0	-1.10	1 / 1	23.40	22.30	0.170	33.01	-10.71
		2536.0	-1.10	1 / 108	28.44	27.34	0.542	33.01	-5.67
	16-QAM	2593.0	-1.10	1 / 108	28.50	27.40	0.550	33.01	-5.61
	64-QAM	2650.0	-1.10	1 / 215	28.52	27.42	0.552	33.01	-5.59
	256-QAM	2536.0	-1.10	1 / 1	28.59	27.49	0.561	33.01	-5.52
	256-QAM	2593.0	-1.10	1 / 108	28.56	27.46	0.557	33.01	-5.55
80 MHz	π/2 BPSK	2650.0	-1.10	1 / 215	28.51	27.41	0.551	33.01	-5.60
		2593.0	-1.10	1 / 108	27.69	26.59	0.456	33.01	-6.42
		2650.0	-1.10	1 / 108	26.72	25.62	0.365	33.01	-7.39
	QPSK	2536.0	-1.10	1 / 108	23.68	22.58	0.181	33.01	-10.43
		2541.0	-1.10	1 / 1	28.69	27.59	0.574	33.01	-5.42
		2593.0	-1.10	1 / 243	28.69	27.59	0.574	33.01	-5.42
	16-QAM	2645.0	-1.10	1 / 1	28.58	27.48	0.560	33.01	-5.53
	64-QAM	2541.0	-1.10	1 / 122	28.63	27.53	0.566	33.01	-5.48
	256-QAM	2593.0	-1.10	1 / 122	28.70	27.60	0.575	33.01	-5.41
	256-QAM	2645.0	-1.10	1 / 122	28.66	27.56	0.570	33.01	-5.45
90 MHz	π/2 BPSK	2645.0	-1.10	1 / 243	27.60	26.50	0.447	33.01	-6.51
		2645.0	-1.10	1 / 243	26.68	25.58	0.361	33.01	-7.43
		2645.0	-1.10	1 / 1	23.62	22.52	0.179	33.01	-10.49
	QPSK	2546.0	-1.10	1 / 136	28.66	27.56	0.570	33.01	-5.45
		2593.0	-1.10	1 / 136	28.66	27.56	0.570	33.01	-5.45
		2640.0	-1.10	1 / 136	28.53	27.43	0.553	33.01	-5.58
	16-QAM	2546.0	-1.10	1 / 1	28.70	27.60	0.575	33.01	-5.41
	64-QAM	2593.0	-1.10	1 / 271	28.62	27.52	0.565	33.01	-5.49
	256-QAM	2640.0	-1.10	1 / 271	28.49	27.39	0.548	33.01	-5.62
	256-QAM	2593.0	-1.10	1 / 1	27.69	26.59	0.456	33.01	-6.42
100 MHz	π/2 BPSK	2546.0	-1.10	1 / 271	26.71	25.61	0.364	33.01	-7.40
		2546.0	-1.10	1 / 136	23.63	22.53	0.179	33.01	-10.48
		2546.0	-1.10	1 / 136	28.66	27.56	0.570	33.01	-5.45
	QPSK	2593.0	-1.10	1 / 136	28.66	27.56	0.570	33.01	-5.45
		2640.0	-1.10	1 / 136	28.53	27.43	0.553	33.01	-5.58
		2546.0	-1.10	1 / 1	28.70	27.60	0.575	33.01	-5.41
	16-QAM	2593.0	-1.10	1 / 271	28.62	27.52	0.565	33.01	-5.49
	64-QAM	2640.0	-1.10	1 / 271	28.49	27.39	0.548	33.01	-5.62
	256-QAM	2593.0	-1.10	1 / 1	27.69	26.59	0.456	33.01	-6.42
	256-QAM	2546.0	-1.10	1 / 136	23.63	22.53	0.179	33.01	-10.48

Table 7-9. Antenna 4b EIRP Data (NR Band n41 PC2)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device		Page 190 of 278

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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]
20 MHz	π/2 BPSK	2506.0	-1.10	1 / 1	25.61	24.51	0.282	33.01	-8.50
		2593.0	-1.10	1 / 49	25.32	24.22	0.264	33.01	-8.79
		2680.0	-1.10	1 / 25	25.65	24.55	0.285	33.01	-8.46
	QPSK	2506.0	-1.10	1 / 1	25.62	24.52	0.283	33.01	-8.49
		2593.0	-1.10	1 / 49	25.70	24.60	0.288	33.01	-8.41
		2680.0	-1.10	1 / 25	25.51	24.41	0.276	33.01	-8.60
	16-QAM	2593.0	-1.10	1 / 49	24.59	23.49	0.223	33.01	-9.52
	64-QAM	2506.0	-1.10	1 / 25	23.70	22.60	0.182	33.01	-10.41
30 MHz	π/2 BPSK	2680.0	-1.10	1 / 49	20.68	19.58	0.091	33.01	-13.43
		2511.0	-1.10	1 / 39	25.67	24.57	0.286	33.01	-8.44
		2593.0	-1.10	1 / 39	25.67	24.57	0.286	33.01	-8.44
	QPSK	2675.0	-1.10	1 / 1	25.66	24.56	0.286	33.01	-8.45
		2511.0	-1.10	1 / 39	25.53	24.43	0.277	33.01	-8.58
		2593.0	-1.10	1 / 39	25.70	24.60	0.288	33.01	-8.41
	16-QAM	2675.0	-1.10	1 / 76	24.67	23.57	0.228	33.01	-9.44
	64-QAM	2593.0	-1.10	1 / 76	23.74	22.64	0.184	33.01	-10.37
40 MHz	π/2 BPSK	2511.0	-1.10	1 / 1	20.73	19.63	0.092	33.01	-13.38
		2593.0	-1.10	1 / 53	25.37	24.27	0.267	33.01	-8.74
		2593.0	-1.10	1 / 104	25.70	24.60	0.288	33.01	-8.41
	QPSK	2670.0	-1.10	1 / 53	25.49	24.39	0.275	33.01	-8.62
		2516.0	-1.10	1 / 1	25.60	24.50	0.282	33.01	-8.51
		2593.0	-1.10	1 / 1	25.62	24.52	0.283	33.01	-8.49
	16-QAM	2670.0	-1.10	1 / 104	25.58	24.48	0.281	33.01	-8.53
	64-QAM	2516.0	-1.10	1 / 1	24.71	23.61	0.230	33.01	-9.40
50 MHz	π/2 BPSK	2516.0	-1.10	1 / 1	23.68	22.58	0.181	33.01	-10.43
		2516.0	-1.10	1 / 104	20.63	19.53	0.090	33.01	-13.48
		2521.0	-1.10	1 / 66	25.67	24.57	0.286	33.01	-8.44
	QPSK	2593.0	-1.10	1 / 1	25.43	24.33	0.271	33.01	-8.68
		2665.0	-1.10	1 / 66	25.70	24.60	0.288	33.01	-8.41
		2521.0	-1.10	1 / 66	25.67	24.57	0.286	33.01	-8.44
	16-QAM	2593.0	-1.10	1 / 1	25.61	24.51	0.282	33.01	-8.50
	64-QAM	2665.0	-1.10	1 / 131	25.45	24.35	0.272	33.01	-8.66
60 MHz	π/2 BPSK	2521.0	-1.10	1 / 1	24.65	23.55	0.226	33.01	-9.46
		2521.0	-1.10	1 / 131	23.67	22.57	0.181	33.01	-10.44
		2593.0	-1.10	1 / 131	20.67	19.57	0.091	33.01	-13.44
	QPSK	2526.0	-1.10	1 / 1	25.65	24.55	0.285	33.01	-8.46
		2593.0	-1.10	1 / 81	25.66	24.56	0.286	33.01	-8.45
		2660.0	-1.10	1 / 160	25.54	24.44	0.278	33.01	-8.57
	16-QAM	2526.0	-1.10	1 / 81	25.70	24.60	0.288	33.01	-8.41
	64-QAM	2593.0	-1.10	1 / 81	25.69	24.59	0.288	33.01	-8.42
70 MHz	π/2 BPSK	2660.0	-1.10	1 / 160	25.63	24.53	0.284	33.01	-8.48
		2660.0	-1.10	1 / 160	25.63	24.53	0.284	33.01	-8.48
		2660.0	-1.10	1 / 1	24.58	23.48	0.223	33.01	-9.53
	QPSK	2526.0	-1.10	1 / 1	23.67	22.57	0.181	33.01	-10.44
		2593.0	-1.10	1 / 81	20.69	19.59	0.091	33.01	-13.42
		2593.0	-1.10	1 / 1	25.58	24.48	0.281	33.01	-8.53
	16-QAM	2593.0	-1.10	1 / 1	25.58	24.48	0.281	33.01	-8.53
	64-QAM	2655.0	-1.10	1 / 1	25.54	24.44	0.278	33.01	-8.57
80 MHz	π/2 BPSK	2593.0	-1.10	1 / 1	25.55	24.45	0.279	33.01	-8.56
		2655.0	-1.10	1 / 1	25.57	24.47	0.280	33.01	-8.54
		2655.0	-1.10	1 / 1	24.45	23.35	0.216	33.01	-9.66
	QPSK	2655.0	-1.10	1 / 1	23.49	22.39	0.173	33.01	-10.62
		2655.0	-1.10	1 / 1	20.57	19.47	0.089	33.01	-13.54
		2536.0	-1.10	1 / 1	25.62	24.52	0.283	33.01	-8.49
	16-QAM	2593.0	-1.10	1 / 1	25.47	24.37	0.274	33.01	-8.64
		2650.0	-1.10	1 / 108	25.70	24.60	0.288	33.01	-8.41
90 MHz	π/2 BPSK	2536.0	-1.10	1 / 108	25.64	24.54	0.284	33.01	-8.47
		2593.0	-1.10	1 / 1	25.66	24.56	0.286	33.01	-8.45
		2650.0	-1.10	1 / 1	25.62	24.52	0.283	33.01	-8.49
	QPSK	2536.0	-1.10	1 / 108	24.64	23.54	0.226	33.01	-9.47
		2593.0	-1.10	1 / 1	23.71	22.61	0.182	33.01	-10.40
		2593.0	-1.10	1 / 108	20.65	19.55	0.090	33.01	-13.46
	16-QAM	2541.0	-1.10	1 / 122	25.53	24.43	0.277	33.01	-8.58
	64-QAM	2593.0	-1.10	1 / 122	25.42	24.32	0.270	33.01	-8.69
100 MHz	π/2 BPSK	2645.0	-1.10	1 / 243	25.57	24.47	0.280	33.01	-8.54
		2541.0	-1.10	1 / 1	25.70	24.60	0.288	33.01	-8.41
		2593.0	-1.10	1 / 122	25.43	24.33	0.271	33.01	-8.68
	QPSK	2645.0	-1.10	1 / 122	25.65	24.55	0.285	33.01	-8.46
		2541.0	-1.10	1 / 122	24.58	23.48	0.223	33.01	-9.53
		2645.0	-1.10	1 / 122	23.65	22.55	0.180	33.01	-10.46
	16-QAM	2645.0	-1.10	1 / 1	20.68	19.58	0.091	33.01	-13.43
	64-QAM	2546.0	-1.10	1 / 1	25.53	24.43	0.277	33.01	-8.58
100 MHz	π/2 BPSK	2593.0	-1.10	1 / 136	25.67	24.57	0.286	33.01	-8.44
		2640.0	-1.10	1 / 136	25.65	24.55	0.285	33.01	-8.46
		2546.0	-1.10	1 / 136	25.60	24.50	0.282	33.01	-8.51
	QPSK	2593.0	-1.10	1 / 1	25.70	24.60	0.288	33.01	-8.41
		2640.0	-1.10	1 / 1	25.69	24.59	0.288	33.01	-8.42
		2546.0	-1.10	1 / 271	24.63	23.53	0.225	33.01	-9.48
	16-QAM	2593.0	-1.10	1 / 271	23.73	22.63	0.183	33.01	-10.38
	64-QAM	2593.0	-1.10	1 / 1	20.64	19.54	0.090	33.01	-13.47

Table 7-10. Antenna 4b EIRP Data (NR Band n41 PC3)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - 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	25.69	-0.80	24.89	0.308	33.01	-8.12	
				21100	2535.0	1	99		21298	2554.8	1	0	25.49	-0.80	24.69	0.294	33.01	-8.32	
				21350	2560.0	1	0		21152	2540.2	1	99	25.62	-0.80	24.82	0.303	33.01	-8.19	
				20850	2510	100	0		21048	2529.8	100	0	24.20	-0.80	23.40	0.219	33.01	-9.61	
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	22.99	-0.80	22.19	0.166	33.01	-10.82	
				64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	22.60	-0.80	21.80	0.151	33.01	-11.21
				256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	19.58	-0.80	18.78	0.076	33.01	-14.23

Table 7-11. Antenna 4b EIRP Data (ULCA LTE Band 7)

ULCA - 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	27.37	-1.10	26.27	0.424	33.01	-6.74
				39790	2510.0	1	99		39988	2529.8	1	0	27.48	-1.10	26.38	0.435	33.01	-6.63
				40620	2593.0	1	99		40818	2612.8	1	0	27.51	-1.10	26.41	0.438	33.01	-6.60
				41490	2680.0	1	0		41292	2660.2	1	99	27.33	-1.10	26.23	0.420	33.01	-6.78
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	25.62	-1.10	24.52	0.283	33.01	-8.49
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	24.39	-1.10	23.29	0.213	33.01	-9.72
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	23.5	-1.10	22.40	0.174	33.01	-10.61
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	20.82	-1.10	19.72	0.094	33.01	-13.29

Table 7-12. Antenna 4b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - 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	25.44	-1.10	24.34	0.272	33.01	-8.67
				39790	2510.0	1	99		39988	2529.8	1	0	25.45	-1.10	24.35	0.272	33.01	-8.66
				40620	2593.0	1	99		40818	2612.8	1	0	25.65	-1.10	24.55	0.285	33.01	-8.46
				41490	2680.0	1	0		41292	2660.2	1	99	25.34	-1.10	24.24	0.265	33.01	-8.77
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	24.31	-1.10	23.21	0.209	33.01	-9.80
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	23.00	-1.10	21.90	0.155	33.01	-11.11
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	22.28	-1.10	21.18	0.131	33.01	-11.83
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	18.99	-1.10	17.89	0.062	33.01	-15.12

Table 7-13. Antenna 4b EIRP Data (ULCA LTE Band 41 (PC3))

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
5 MHz	QPSK	2307.5	-0.50	1 / 12	22.20	21.70	0.148	23.98	-2.28
		2310.0	-0.50	1 / 12	22.04	21.54	0.143	23.98	-2.44
		2312.5	-0.50	1 / 0	21.99	21.49	0.141	23.98	-2.49
	16-QAM	2310.0	-0.50	1 / 0	21.23	20.73	0.118	23.98	-3.25
	64-QAM	2307.5	-0.50	1 / 12	21.41	20.91	0.123	23.98	-3.07
	256-QAM	2312.5	-0.50	1 / 0	18.50	18.00	0.063	23.98	-5.98
10 MHz	QPSK	2310.0	-0.50	1 / 0	22.20	21.70	0.148	23.98	-2.28
	16-QAM	2310.0	-0.50	1 / 0	21.20	20.70	0.117	23.98	-3.28
	64-QAM	2310.0	-0.50	1 / 25	20.35	19.85	0.097	23.98	-4.13
	256-QAM	2310.0	-0.50	1 / 0	18.05	17.55	0.057	23.98	-6.43

Table 7-14. Antenna 1 EIRP Data (LTE Band 30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
5 MHz	QPSK	2502.5	-0.70	1 / 12	22.20	21.50	0.141	33.01	-11.51
		2535.0	-0.70	1 / 12	21.90	21.20	0.132	33.01	-11.81
		2567.5	-0.70	1 / 0	22.08	21.38	0.137	33.01	-11.63
	16-QAM	2502.5	-0.70	1 / 0	21.19	20.49	0.112	33.01	-12.52
	64-QAM	2502.5	-0.70	1 / 12	20.48	19.78	0.095	33.01	-13.23
	256-QAM	2567.5	-0.70	1 / 0	18.16	17.46	0.056	33.01	-15.55
10 MHz	QPSK	2505.0	-0.70	1 / 49	22.16	21.46	0.140	33.01	-11.55
		2535.0	-0.70	1 / 49	22.20	21.50	0.141	33.01	-11.51
		2565.0	-0.70	1 / 0	22.14	21.44	0.139	33.01	-11.57
	16-QAM	2505.0	-0.70	1 / 25	21.44	20.74	0.119	33.01	-12.27
	64-QAM	2505.0	-0.70	1 / 25	20.68	19.98	0.100	33.01	-13.03
	256-QAM	2565.0	-0.70	1 / 0	18.21	17.51	0.056	33.01	-15.50
15 MHz	QPSK	2507.5	-0.70	1 / 37	22.20	21.50	0.141	33.01	-11.51
		2535.0	-0.70	1 / 0	22.16	21.46	0.140	33.01	-11.55
		2562.5	-0.70	1 / 0	22.01	21.31	0.135	33.01	-11.70
	16-QAM	2507.5	-0.70	1 / 74	21.36	20.66	0.116	33.01	-12.35
	64-QAM	2562.5	-0.70	1 / 37	20.38	19.68	0.093	33.01	-13.33
	256-QAM	2535.0	-0.70	1 / 0	18.21	17.51	0.056	33.01	-15.50
20 MHz	QPSK	2510.0	-0.70	1 / 0	22.11	21.41	0.138	33.01	-11.60
		2535.0	-0.70	1 / 50	22.20	21.50	0.141	33.01	-11.51
		2560.0	-0.70	1 / 0	22.02	21.32	0.136	33.01	-11.69
	16-QAM	2535.0	-0.70	1 / 50	21.66	20.96	0.125	33.01	-12.05
	64-QAM	2510.0	-0.70	1 / 50	20.50	19.80	0.095	33.01	-13.21
	256-QAM	2535.0	-0.70	1 / 0	18.19	17.49	0.056	33.01	-15.52

Table 7-15. Antenna 1 EIRP Data (LTE Band 7)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical 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]
5 MHz	QPSK	2498.5	2.00	1 / 0	28.70	30.70	1.175	33.01	-2.31
		2593.0	2.00	1 / 12	28.48	30.48	1.117	33.01	-2.53
		2687.5	2.00	1 / 24	28.37	30.37	1.089	33.01	-2.64
	16-QAM	2498.5	2.00	1 / 12	28.22	30.22	1.052	33.01	-2.79
	64-QAM	2498.5	2.00	1 / 24	27.22	29.22	0.836	33.01	-3.79
	256-QAM	2498.5	2.00	1 / 12	24.36	26.36	0.433	33.01	-6.65
10 MHz	QPSK	2501.0	2.00	1 / 0	28.69	30.69	1.172	33.01	-2.32
		2593.0	2.00	1 / 25	28.47	30.47	1.114	33.01	-2.54
		2685.0	2.00	1 / 25	28.43	30.43	1.104	33.01	-2.58
	16-QAM	2501.0	2.00	1 / 25	28.15	30.15	1.035	33.01	-2.86
	64-QAM	2685.0	2.00	1 / 25	27.09	29.09	0.811	33.01	-3.92
	256-QAM	2501.0	2.00	1 / 0	24.58	26.58	0.455	33.01	-6.43
15 MHz	QPSK	2503.5	2.00	1 / 37	28.70	30.70	1.175	33.01	-2.31
		2593.0	2.00	1 / 37	28.46	30.46	1.112	33.01	-2.55
		2682.5	2.00	1 / 37	28.19	30.19	1.045	33.01	-2.82
	16-QAM	2503.5	2.00	1 / 37	27.88	29.88	0.973	33.01	-3.13
	64-QAM	2503.5	2.00	1 / 0	27.34	29.34	0.859	33.01	-3.67
	256-QAM	2593.0	2.00	1 / 37	23.78	25.78	0.378	33.01	-7.23
20 MHz	QPSK	2506.0	2.00	1 / 50	28.59	30.59	1.146	33.01	-2.42
		2593.0	2.00	1 / 0	28.32	30.32	1.076	33.01	-2.69
		2680.0	2.00	1 / 50	28.34	30.34	1.081	33.01	-2.67
	16-QAM	2506.0	2.00	1 / 50	28.03	30.03	1.007	33.01	-2.98
	64-QAM	2506.0	2.00	1 / 50	26.94	28.94	0.783	33.01	-4.07
	256-QAM	2506.0	2.00	1 / 50	24.08	26.08	0.406	33.01	-6.93

Table 7-16. Antenna 1 EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 195 of 278

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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]
5 MHz	QPSK	2498.5	2.00	1 / 12	25.70	27.70	0.589	33.01	-5.31
		2593.0	2.00	1 / 12	25.44	27.44	0.555	33.01	-5.57
		2687.5	2.00	1 / 12	25.25	27.25	0.531	33.01	-5.76
	16-QAM	2498.5	2.00	1 / 12	24.66	26.66	0.463	33.01	-6.35
	64-QAM	2593.0	2.00	1 / 24	23.55	25.55	0.359	33.01	-7.46
	256-QAM	2498.5	2.00	1 / 0	20.58	22.58	0.181	33.01	-10.43
10 MHz	QPSK	2501.0	2.00	1 / 25	25.70	27.70	0.589	33.01	-5.31
		2593.0	2.00	1 / 25	25.42	27.42	0.552	33.01	-5.59
		2685.0	2.00	1 / 25	25.28	27.28	0.535	33.01	-5.73
	16-QAM	2501.0	2.00	1 / 25	24.53	26.53	0.450	33.01	-6.48
	64-QAM	2593.0	2.00	1 / 25	23.42	25.42	0.348	33.01	-7.59
	256-QAM	2501.0	2.00	1 / 0	20.57	22.57	0.181	33.01	-10.44
15 MHz	QPSK	2503.5	2.00	1 / 37	25.70	27.70	0.589	33.01	-5.31
		2593.0	2.00	1 / 0	25.63	27.63	0.579	33.01	-5.38
		2682.5	2.00	1 / 0	25.61	27.61	0.577	33.01	-5.40
	16-QAM	2593.0	2.00	1 / 0	24.62	26.62	0.459	33.01	-6.39
	64-QAM	2503.5	2.00	1 / 74	23.94	25.94	0.393	33.01	-7.07
	256-QAM	2593.0	2.00	1 / 0	21.60	23.60	0.229	33.01	-9.41
20 MHz	QPSK	2506.0	2.00	1 / 50	25.69	27.69	0.587	33.01	-5.32
		2593.0	2.00	1 / 0	25.61	27.61	0.577	33.01	-5.40
		2680.0	2.00	1 / 0	25.56	27.56	0.570	33.01	-5.45
	16-QAM	2506.0	2.00	1 / 50	24.70	26.70	0.468	33.01	-6.31
	64-QAM	2506.0	2.00	1 / 50	24.01	26.01	0.399	33.01	-7.00
	256-QAM	2593.0	2.00	1 / 0	21.56	23.56	0.227	33.01	-9.45

Table 7-17. Antenna 1 EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 196 of 278

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NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	π/2 BPSK	2307.5	-0.50	1 / 1	22.08	21.58	0.144	23.98	-2.40
		2310.0	-0.50	1 / 1	22.16	21.66	0.147	23.98	-2.31
		2312.5	-0.50	1 / 1	21.92	21.42	0.139	23.98	-2.56
	QPSK	2307.5	-0.50	1 / 23	21.79	21.29	0.135	23.98	-2.69
		2310.0	-0.50	1 / 12	22.20	21.70	0.148	23.98	-2.28
		2312.5	-0.50	1 / 1	21.80	21.30	0.135	23.98	-2.68
	16-QAM	2312.5	-0.50	1 / 12	21.23	20.73	0.118	23.98	-3.25
	64-QAM	2307.5	-0.50	1 / 23	19.90	19.40	0.087	23.98	-4.58
	256-QAM	2310.0	-0.50	1 / 12	17.55	17.05	0.051	23.98	-6.93
10 MHz	π/2 BPSK	2310.0	-0.50	1 / 1	22.20	21.70	0.148	23.98	-2.28
	QPSK	2310.0	-0.50	1 / 25	22.19	21.69	0.148	23.98	-2.29
	16-QAM	2310.0	-0.50	1 / 50	21.42	20.92	0.124	23.98	-3.06
	64-QAM	2310.0	-0.50	1 / 25	19.62	19.12	0.082	23.98	-4.86
	256-QAM	2310.0	-0.50	1 / 50	17.52	17.02	0.050	23.98	-6.96

Table 7-18. Antenna 1 EIRP Data (NR Band n30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 197 of 278

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NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2502.5	-0.70	1 / 1	21.97	21.27	0.134	33.01	-11.74
		2535.0	-0.70	1 / 23	22.08	21.38	0.137	33.01	-11.63
		2567.5	-0.70	1 / 23	22.17	21.47	0.140	33.01	-11.54
	QPSK	2502.5	-0.70	1 / 12	21.94	21.24	0.133	33.01	-11.77
		2535.0	-0.70	1 / 1	22.20	21.50	0.141	33.01	-11.51
		2567.5	-0.70	1 / 1	22.04	21.34	0.136	33.01	-11.67
	16-QAM	2535.0	-0.70	1 / 12	21.14	20.44	0.111	33.01	-12.57
	64-QAM	2502.5	-0.70	1 / 23	20.05	19.35	0.086	33.01	-13.66
10 MHz	$\pi/2$ BPSK	2502.5	-0.70	1 / 12	17.21	16.51	0.045	33.01	-16.50
		2505.0	-0.70	1 / 50	22.12	21.42	0.139	33.01	-11.59
		2535.0	-0.70	1 / 25	22.20	21.50	0.141	33.01	-11.51
	QPSK	2565.0	-0.70	1 / 50	22.05	21.35	0.136	33.01	-11.66
		2505.0	-0.70	1 / 25	22.13	21.43	0.139	33.01	-11.58
		2535.0	-0.70	1 / 1	22.15	21.45	0.140	33.01	-11.56
	16-QAM	2565.0	-0.70	1 / 50	22.19	21.49	0.141	33.01	-11.52
	64-QAM	2565.0	-0.70	1 / 25	21.22	20.52	0.113	33.01	-12.49
15 MHz	$\pi/2$ BPSK	2505.0	-0.70	1 / 25	20.21	19.51	0.089	33.01	-13.50
		2505.0	-0.70	1 / 50	17.20	16.50	0.045	33.01	-16.51
		2507.5	-0.70	1 / 37	22.20	21.50	0.141	33.01	-11.51
	QPSK	2535.0	-0.70	1 / 73	21.90	21.20	0.132	33.01	-11.81
		2562.5	-0.70	1 / 37	21.90	21.20	0.132	33.01	-11.81
		2507.5	-0.70	1 / 73	22.09	21.39	0.138	33.01	-11.62
	16-QAM	2535.0	-0.70	1 / 73	22.17	21.47	0.140	33.01	-11.54
	64-QAM	2562.5	-0.70	1 / 73	22.20	21.50	0.141	33.01	-11.51
20 MHz	$\pi/2$ BPSK	2507.5	-0.70	1 / 37	21.19	20.49	0.112	33.01	-12.52
		2507.5	-0.70	1 / 73	20.19	19.49	0.089	33.01	-13.52
		2562.5	-0.70	1 / 1	17.16	16.46	0.044	33.01	-16.55
	QPSK	2510.0	-0.70	1 / 1	21.94	21.24	0.133	33.01	-11.77
		2535.0	-0.70	1 / 98	22.00	21.30	0.135	33.01	-11.71
		2560.0	-0.70	1 / 1	22.20	21.50	0.141	33.01	-11.51
	16-QAM	2510.0	-0.70	1 / 98	22.19	21.49	0.141	33.01	-11.52
	64-QAM	2535.0	-0.70	1 / 50	21.98	21.28	0.134	33.01	-11.73
25 MHz	$\pi/2$ BPSK	2560.0	-0.70	1 / 1	21.96	21.26	0.134	33.01	-11.75
		2560.0	-0.70	1 / 1	21.21	20.51	0.112	33.01	-12.50
		2510.0	-0.70	1 / 98	20.21	19.51	0.089	33.01	-13.50
	QPSK	2535.0	-0.70	1 / 1	17.14	16.44	0.044	33.01	-16.57
		2512.5	-0.70	1 / 1	22.13	21.43	0.139	33.01	-11.58
		2535.0	-0.70	1 / 131	22.18	21.48	0.141	33.01	-11.53
	16-QAM	2557.5	-0.70	1 / 131	21.93	21.23	0.133	33.01	-11.78
	64-QAM	2512.5	-0.70	1 / 131	22.20	21.50	0.141	33.01	-11.51
30 MHz	$\pi/2$ BPSK	2535.0	-0.70	1 / 1	22.07	21.37	0.137	33.01	-11.64
		2557.5	-0.70	1 / 131	22.10	21.40	0.138	33.01	-11.61
		2535.0	-0.70	1 / 131	21.14	20.44	0.111	33.01	-12.57
	QPSK	2512.5	-0.70	1 / 1	20.20	19.50	0.089	33.01	-13.51
		2557.5	-0.70	1 / 66	17.18	16.48	0.044	33.01	-16.53
		2515.0	-0.70	1 / 1	22.15	21.45	0.140	33.01	-11.56
	16-QAM	2535.0	-0.70	1 / 80	22.15	21.45	0.140	33.01	-11.56
	64-QAM	2555.0	-0.70	1 / 80	22.03	21.33	0.136	33.01	-11.68
40 MHz	$\pi/2$ BPSK	2515.0	-0.70	1 / 80	22.20	21.50	0.141	33.01	-11.51
		2535.0	-0.70	1 / 158	22.12	21.42	0.139	33.01	-11.59
		2555.0	-0.70	1 / 1	22.20	21.50	0.141	33.01	-11.51
	QPSK	2515.0	-0.70	1 / 1	21.19	20.49	0.112	33.01	-12.52
		2535.0	-0.70	1 / 158	20.20	19.50	0.089	33.01	-13.51
		2555.0	-0.70	1 / 80	17.20	16.50	0.045	33.01	-16.51
	16-QAM	2520.0	-0.70	1 / 214	22.18	21.48	0.141	33.01	-11.53
	64-QAM	2535.0	-0.70	1 / 1	22.19	21.49	0.141	33.01	-11.52

Table 7-19. Antenna 1 EIRP Data (NR Band n7)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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]
20 MHz	π/2 BPSK	2506.0	2.00	1 / 49	27.69	29.69	0.931	33.01	-3.32
		2593.0	2.00	1 / 25	27.59	29.59	0.910	33.01	-3.42
		2680.0	2.00	1 / 1	27.67	29.67	0.927	33.01	-3.34
	QPSK	2506.0	2.00	1 / 1	27.62	29.62	0.916	33.01	-3.39
		2593.0	2.00	1 / 25	27.65	29.65	0.923	33.01	-3.36
		2680.0	2.00	1 / 25	27.64	29.64	0.920	33.01	-3.37
	16-QAM	2506.0	2.00	1 / 49	26.68	28.68	0.738	33.01	-4.33
	64-QAM	2680.0	2.00	1 / 25	25.62	27.62	0.578	33.01	-5.39
	256-QAM	2680.0	2.00	1 / 25	22.63	24.63	0.290	33.01	-8.38
30 MHz	π/2 BPSK	2511.0	2.00	1 / 76	27.34	29.34	0.859	33.01	-3.67
		2593.0	2.00	1 / 39	27.52	29.52	0.895	33.01	-3.49
		2675.0	2.00	1 / 39	27.49	29.49	0.889	33.01	-3.52
	QPSK	2511.0	2.00	1 / 1	27.47	29.47	0.885	33.01	-3.54
		2593.0	2.00	1 / 76	27.58	29.58	0.908	33.01	-3.43
		2675.0	2.00	1 / 39	27.58	29.58	0.908	33.01	-3.43
	16-QAM	2593.0	2.00	1 / 39	26.66	28.66	0.735	33.01	-4.35
	64-QAM	2511.0	2.00	1 / 76	25.66	27.66	0.583	33.01	-5.35
	256-QAM	2675.0	2.00	1 / 39	22.55	24.55	0.285	33.01	-8.46
40 MHz	π/2 BPSK	2516.0	2.00	1 / 104	27.60	29.60	0.912	33.01	-3.41
		2593.0	2.00	1 / 104	27.58	29.58	0.908	33.01	-3.43
		2670.0	2.00	1 / 104	27.47	29.47	0.885	33.01	-3.54
	QPSK	2516.0	2.00	1 / 53	27.60	29.60	0.912	33.01	-3.41
		2593.0	2.00	1 / 1	27.52	29.52	0.895	33.01	-3.49
		2670.0	2.00	1 / 104	27.53	29.53	0.897	33.01	-3.48
	16-QAM	2670.0	2.00	1 / 104	26.60	28.60	0.724	33.01	-4.41
	64-QAM	2670.0	2.00	1 / 53	25.68	27.68	0.586	33.01	-5.33
	256-QAM	2516.0	2.00	1 / 104	22.68	24.68	0.294	33.01	-8.33
50 MHz	π/2 BPSK	2521.0	2.00	1 / 1	27.57	29.57	0.906	33.01	-3.44
		2593.0	2.00	1 / 1	27.50	29.50	0.891	33.01	-3.51
		2665.0	2.00	1 / 131	27.59	29.59	0.910	33.01	-3.42
	QPSK	2521.0	2.00	1 / 131	27.61	29.61	0.914	33.01	-3.40
		2593.0	2.00	1 / 1	27.42	29.42	0.875	33.01	-3.59
		2665.0	2.00	1 / 1	27.64	29.64	0.920	33.01	-3.37
	16-QAM	2521.0	2.00	1 / 1	26.68	28.68	0.738	33.01	-4.33
	64-QAM	2593.0	2.00	1 / 66	25.67	27.67	0.585	33.01	-5.34
	256-QAM	2665.0	2.00	1 / 131	22.69	24.69	0.294	33.01	-8.32
60 MHz	π/2 BPSK	2526.0	2.00	1 / 1	27.39	29.39	0.869	33.01	-3.62
		2593.0	2.00	1 / 1	27.68	29.68	0.929	33.01	-3.33
		2660.0	2.00	1 / 160	27.66	29.66	0.925	33.01	-3.35
	QPSK	2526.0	2.00	1 / 81	27.69	29.69	0.931	33.01	-3.32
		2593.0	2.00	1 / 1	27.57	29.57	0.906	33.01	-3.44
		2660.0	2.00	1 / 81	27.58	29.58	0.908	33.01	-3.43
	16-QAM	2593.0	2.00	1 / 81	26.69	28.69	0.740	33.01	-4.32
	64-QAM	2526.0	2.00	1 / 1	25.71	27.71	0.590	33.01	-5.30
	256-QAM	2526.0	2.00	1 / 1	22.71	24.71	0.296	33.01	-8.30
70 MHz	π/2 BPSK	2531.0	2.00	1 / 187	27.35	29.35	0.861	33.01	-3.66
		2593.0	2.00	1 / 187	27.54	29.54	0.899	33.01	-3.47
		2655.0	2.00	1 / 1	27.57	29.57	0.906	33.01	-3.44
	QPSK	2531.0	2.00	1 / 187	27.54	29.54	0.899	33.01	-3.47
		2593.0	2.00	1 / 90	27.67	29.67	0.927	33.01	-3.34
		2655.0	2.00	1 / 187	27.69	29.69	0.931	33.01	-3.32
	16-QAM	2531.0	2.00	1 / 1	26.71	28.71	0.743	33.01	-4.30
	64-QAM	2531.0	2.00	1 / 1	25.72	27.72	0.592	33.01	-5.29
	256-QAM	2531.0	2.00	1 / 1	22.37	24.37	0.274	33.01	-8.64
80 MHz	π/2 BPSK	2536.0	2.00	1 / 215	27.66	29.66	0.925	33.01	-3.35
		2593.0	2.00	1 / 1	27.65	29.65	0.923	33.01	-3.36
		2650.0	2.00	1 / 108	27.70	29.70	0.933	33.01	-3.31
	QPSK	2536.0	2.00	1 / 215	27.50	29.50	0.891	33.01	-3.51
		2593.0	2.00	1 / 1	27.56	29.56	0.904	33.01	-3.45
		2650.0	2.00	1 / 1	27.43	29.43	0.877	33.01	-3.58
	16-QAM	2650.0	2.00	1 / 1	26.71	28.71	0.743	33.01	-4.30
	64-QAM	2536.0	2.00	1 / 108	25.71	27.71	0.590	33.01	-5.30
	256-QAM	2536.0	2.00	1 / 215	22.67	24.67	0.293	33.01	-8.34
90 MHz	π/2 BPSK	2541.0	2.00	1 / 122	27.60	29.60	0.912	33.01	-3.41
		2593.0	2.00	1 / 122	27.69	29.69	0.931	33.01	-3.32
		2645.0	2.00	1 / 122	27.65	29.65	0.923	33.01	-3.36
	QPSK	2541.0	2.00	1 / 1	27.58	29.58	0.908	33.01	-3.43
		2593.0	2.00	1 / 243	27.65	29.65	0.923	33.01	-3.36
		2645.0	2.00	1 / 1	27.36	29.36	0.863	33.01	-3.65
	16-QAM	2593.0	2.00	1 / 243	26.64	28.64	0.731	33.01	-4.37
	64-QAM	2593.0	2.00	1 / 1	25.70	27.70	0.589	33.01	-5.31
	256-QAM	2541.0	2.00	1 / 1	22.74	24.74	0.298	33.01	-8.27
100 MHz	π/2 BPSK	2546.0	2.00	1 / 136	27.58	29.58	0.908	33.01	-3.43
		2593.0	2.00	1 / 136	27.69	29.69	0.931	33.01	-3.32
		2640.0	2.00	1 / 136	27.46	29.46	0.883	33.01	-3.55
	QPSK	2546.0	2.00	1 / 1	27.61	29.61	0.914	33.01	-3.40
		2593.0	2.00	1 / 136	27.66	29.66	0.925	33.01	-3.35
		2640.0	2.00	1 / 1	27.40	29.40	0.871	33.01	-3.61
	16-QAM	2593.0	2.00	1 / 1	26.64	28.64	0.731	33.01	-4.37
	64-QAM	2593.0	2.00	1 / 136	25.55	27.55	0.569	33.01	-5.46
	256-QAM	2593.0	2.00	1 / 271	22.64	24.64	0.291	33.01	-8.37

Table 7-20. Antenna 1 EIRP Data (NR Band n41 PC2)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device		Page 199 of 278

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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]
20 MHz	π/2 BPSK	2506.0	2.00	1 / 25	25.70	27.70	0.589	33.01	-5.31
		2593.0	2.00	1 / 25	25.50	27.50	0.562	33.01	-5.51
		2680.0	2.00	1 / 49	25.62	27.62	0.578	33.01	-5.39
	QPSK	2506.0	2.00	1 / 25	25.62	27.62	0.578	33.01	-5.39
		2593.0	2.00	1 / 1	25.43	27.43	0.553	33.01	-5.58
		2680.0	2.00	1 / 1	25.70	27.70	0.589	33.01	-5.31
	16-QAM	2680.0	2.00	1 / 25	24.60	26.60	0.457	33.01	-6.41
	64-QAM	2593.0	2.00	1 / 1	23.58	25.58	0.361	33.01	-7.43
	256-QAM	2506.0	2.00	1 / 25	20.69	22.69	0.186	33.01	-10.32
		2511.0	2.00	1 / 39	25.49	27.49	0.561	33.01	-5.52
30 MHz	π/2 BPSK	2593.0	2.00	1 / 1	25.58	27.58	0.573	33.01	-5.43
		2675.0	2.00	1 / 39	25.56	27.56	0.570	33.01	-5.45
		2511.0	2.00	1 / 39	25.35	27.35	0.543	33.01	-5.66
	QPSK	2593.0	2.00	1 / 1	25.34	27.34	0.542	33.01	-5.67
		2675.0	2.00	1 / 39	25.62	27.62	0.578	33.01	-5.39
		2593.0	2.00	1 / 76	24.69	26.69	0.467	33.01	-6.32
	16-QAM	2593.0	2.00	1 / 1	23.71	25.71	0.372	33.01	-7.30
	64-QAM	2511.0	2.00	1 / 76	20.68	22.68	0.185	33.01	-10.33
	256-QAM	2516.0	2.00	1 / 104	25.55	27.55	0.569	33.01	-5.46
		2593.0	2.00	1 / 1	25.70	27.70	0.589	33.01	-5.31
40 MHz	π/2 BPSK	2670.0	2.00	1 / 53	25.52	27.52	0.565	33.01	-5.49
		2516.0	2.00	1 / 104	25.55	27.55	0.569	33.01	-5.46
		2593.0	2.00	1 / 104	25.58	27.58	0.573	33.01	-5.43
	QPSK	2670.0	2.00	1 / 1	25.66	27.66	0.583	33.01	-5.35
		2593.0	2.00	1 / 53	24.68	26.68	0.466	33.01	-6.33
		2670.0	2.00	1 / 1	23.68	25.68	0.370	33.01	-7.33
	16-QAM	2593.0	2.00	1 / 1	20.69	22.69	0.186	33.01	-10.32
	64-QAM	2670.0	2.00	1 / 1	25.47	27.47	0.558	33.01	-5.54
	256-QAM	2521.0	2.00	1 / 131	25.47	27.47	0.558	33.01	-5.54
		2593.0	2.00	1 / 131	25.70	27.70	0.589	33.01	-5.31
50 MHz	π/2 BPSK	2665.0	2.00	1 / 66	25.68	27.68	0.586	33.01	-5.33
		2521.0	2.00	1 / 1	25.65	27.65	0.582	33.01	-5.36
		2593.0	2.00	1 / 131	25.69	27.69	0.587	33.01	-5.32
	QPSK	2665.0	2.00	1 / 66	25.60	27.60	0.575	33.01	-5.41
		2593.0	2.00	1 / 1	24.68	26.68	0.466	33.01	-6.33
		2593.0	2.00	1 / 131	23.70	25.70	0.372	33.01	-7.31
	16-QAM	2593.0	2.00	1 / 1	20.71	22.71	0.187	33.01	-10.30
	64-QAM	2521.0	2.00	1 / 1	25.49	27.49	0.561	33.01	-5.52
	256-QAM	2593.0	2.00	1 / 160	25.68	27.68	0.586	33.01	-5.33
		2660.0	2.00	1 / 1	25.66	27.66	0.583	33.01	-5.35
60 MHz	π/2 BPSK	2526.0	2.00	1 / 81	25.68	27.68	0.586	33.01	-5.33
		2593.0	2.00	1 / 1	25.51	27.51	0.564	33.01	-5.50
		2660.0	2.00	1 / 160	25.51	27.51	0.564	33.01	-5.50
	QPSK	2526.0	2.00	1 / 1	25.66	27.66	0.583	33.01	-5.35
		2593.0	2.00	1 / 1	24.70	26.70	0.468	33.01	-6.31
		2660.0	2.00	1 / 160	23.57	25.57	0.361	33.01	-7.44
	16-QAM	2593.0	2.00	1 / 180	20.65	22.65	0.184	33.01	-10.36
	64-QAM	2593.0	2.00	1 / 187	25.41	27.41	0.551	33.01	-5.60
	256-QAM	2593.0	2.00	1 / 1	25.62	27.62	0.578	33.01	-5.39
		2655.0	2.00	1 / 1	25.55	27.55	0.569	33.01	-5.46
70 MHz	π/2 BPSK	2531.0	2.00	1 / 90	25.58	27.58	0.573	33.01	-5.43
		2593.0	2.00	1 / 1	25.56	27.56	0.570	33.01	-5.45
		2655.0	2.00	1 / 1	25.43	27.43	0.553	33.01	-5.58
	QPSK	2531.0	2.00	180 / 0	25.58	27.58	0.573	33.01	-5.43
		2531.0	2.00	1 / 90	24.62	26.62	0.459	33.01	-6.39
		2531.0	2.00	1 / 187	23.48	25.48	0.353	33.01	-7.53
	16-QAM	2536.0	2.00	1 / 108	25.70	27.70	0.589	33.01	-5.31
	64-QAM	2593.0	2.00	1 / 215	25.34	27.34	0.542	33.01	-5.67
	256-QAM	2650.0	2.00	1 / 1	25.48	27.48	0.560	33.01	-5.53
		2536.0	2.00	1 / 108	25.63	27.63	0.579	33.01	-5.38
80 MHz	π/2 BPSK	2593.0	2.00	1 / 215	25.56	27.56	0.570	33.01	-5.45
		2650.0	2.00	1 / 108	25.58	27.58	0.573	33.01	-5.43
		2536.0	2.00	1 / 1	24.69	26.69	0.467	33.01	-6.32
	QPSK	2536.0	2.00	1 / 108	23.68	25.68	0.370	33.01	-7.33
		2593.0	2.00	1 / 215	20.59	22.59	0.182	33.01	-10.42
		2536.0	2.00	1 / 243	25.66	27.66	0.583	33.01	-5.35
	16-QAM	2593.0	2.00	1 / 122	24.65	26.65	0.462	33.01	-6.36
	64-QAM	2593.0	2.00	1 / 122	23.66	25.66	0.368	33.01	-7.35
	256-QAM	2645.0	2.00	1 / 1	20.66	22.66	0.185	33.01	-10.35
		2541.0	2.00	1 / 243	25.66	27.66	0.583	33.01	-5.35
90 MHz	π/2 BPSK	2593.0	2.00	1 / 122	25.54	27.54	0.568	33.01	-5.47
		2645.0	2.00	1 / 1	25.59	27.59	0.574	33.01	-5.42
		2541.0	2.00	1 / 1	25.68	27.68	0.586	33.01	-5.33
	QPSK	2593.0	2.00	1 / 1	25.70	27.70	0.589	33.01	-5.31
		2645.0	2.00	1 / 1	25.69	27.69	0.587	33.01	-5.32
		2593.0	2.00	1 / 122	24.65	26.65	0.462	33.01	-6.36
	16-QAM	2593.0	2.00	1 / 122	23.66	25.66	0.368	33.01	-7.35
	64-QAM	2593.0	2.00	1 / 122	23.66	25.66	0.368	33.01	-7.35
	256-QAM	2645.0	2.00	1 / 1	20.66	22.66	0.185	33.01	-10.35
		2546.0	2.00	1 / 271	25.58	27.58	0.573	33.01	-5.43
100 MHz	π/2 BPSK	2593.0	2.00	1 / 271	25.70	27.70	0.589	33.01	-5.31
		2640.0	2.00	1 / 1	25.59	27.59	0.574	33.01	-5.42
		2546.0	2.00	1 / 1	25.36	27.36	0.545	33.01	-5.65
	QPSK	2593.0	2.00	1 / 1	25.37	27.37	0.546	33.01	-5.64
		2640.0	2.00	1 / 136	25.51	27.51	0.564	33.01	-5.50
		2546.0	2.00	1 / 1	24.63	26.63	0.460	33.01	-6.38
	16-QAM	2546.0	2.00	1 / 136	23.64	25.64	0.366	33.01	-7.37
	64-QAM	2640.0	2.00	1 / 271	20.59	22.59	0.182	33.01	-10.42
	256-QAM	2640.0	2.00	1 / 271	20.59	22.59	0.182	33.01	-10.42

Table 7-21. Antenna 1 EIRP Data (NR Band n41 PC3)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - 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	22.04	-0.70	21.34	0.136	33.01	-11.67	
				21100	2535.0	1	99		21288	2554.8	1	0	21.95	-0.70	21.25	0.133	33.01	-11.76	
				21350	2560.0	1	0		21152	2540.2	1	99	22.03	-0.70	21.33	0.136	33.01	-11.68	
				20850	2510	100	0		21048	2529.8	100	0	21.03	-0.70	20.33	0.108	33.01	-12.68	
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	19.44	-0.70	18.74	0.075	33.01	-14.27	
				64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	18.97	-0.70	18.27	0.067	33.01	-14.74
				256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	15.86	-0.70	15.16	0.033	33.01	-17.85

Table 7-22. Antenna 1 EIRP Data (ULCA LTE Band 7)

ULCA - 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	28.5	2.00	30.50	1.122	33.01	-2.51
				39790	2510.0	1	99		39988	2529.8	1	0	28.51	2.00	30.51	1.125	33.01	-2.50
				40620	2593.0	1	99		40818	2612.8	1	0	28.44	2.00	30.44	1.107	33.01	-2.57
				41490	2680.0	1	0		41292	2660.2	1	99	28.41	2.00	30.41	1.099	33.01	-2.60
			QPSK	39790	2510	100	0	QPSK	39988	2529.8	100	0	26.8	2.00	28.80	0.759	33.01	-4.21
			16-QAM	39790	2510	100	0	16-QAM	39988	2529.8	100	0	26.5	2.00	28.50	0.709	33.01	-4.51
			64-QAM	39790	2510	100	0	64-QAM	39988	2529.8	100	0	25.4	2.00	27.40	0.550	33.01	-5.61
			256-QAM	39790	2510	100	0	256-QAM	39988	2529.8	100	0	21.73	2.00	23.73	0.236	33.01	-9.28

Table 7-23. Antenna 1 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - 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	25.62	2.00	27.62	0.578	33.01	-5.39
				39790	2510.0	1	99		39988	2529.8	1	0	25.53	2.00	27.53	0.566	33.01	-5.48
				40620	2593.0	1	99		40818	2612.8	1	0	25.59	2.00	27.59	0.574	33.01	-5.42
				41490	2680.0	1	0		41292	2660.2	1	99	25.68	2.00	27.68	0.586	33.01	-5.33
			QPSK	41490	2680	100	0	QPSK	41292	2660.2	100	0	24.09	2.00	26.09	0.406	33.01	-6.92
			16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	22.95	2.00	24.95	0.313	33.01	-8.06
			64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	22.02	2.00	24.02	0.252	33.01	-8.99
			256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	19.62	2.00	21.62	0.145	33.01	-11.39

Table 7-24. Antenna 1 EIRP Data (ULCA LTE Band 41 (PC3))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.3 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]
5 MHz	QPSK	2307.5	-2.50	1 / 12	25.20	22.70	0.186	23.98	-1.28
		2310.0	-2.50	1 / 12	24.95	22.45	0.176	23.98	-1.53
		2312.5	-2.50	25 / 0	24.85	22.35	0.172	23.98	-1.63
	16-QAM	2310.0	-2.50	1 / 12	24.18	21.68	0.147	23.98	-2.30
	64-QAM	2312.5	-2.50	1 / 0	24.12	21.62	0.145	23.98	-2.36
	256-QAM	2307.5	-2.50	1 / 12	21.37	18.87	0.077	23.98	-5.11
10 MHz	QPSK	2310.0	-2.50	1 / 0	25.20	22.70	0.186	23.98	-1.28
	16-QAM	2310.0	-2.50	1 / 0	24.37	21.87	0.154	23.98	-2.11
	64-QAM	2310.0	-2.50	1 / 25	23.43	20.93	0.124	23.98	-3.05
	256-QAM	2310.0	-2.50	50 / 0	20.77	18.27	0.067	23.98	-5.71

Table 7-25. Antenna 3 EIRP Data (LTE Band 30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
5 MHz	QPSK	2502.5	0.00	1 / 12	25.20	25.20	0.331	33.01	-7.81
		2535.0	0.00	1 / 0	25.05	25.05	0.320	33.01	-7.96
		2567.5	0.00	1 / 0	25.03	25.03	0.318	33.01	-7.98
	16-QAM	2502.5	0.00	1 / 0	24.17	24.17	0.261	33.01	-8.84
	64-QAM	2535.0	0.00	1 / 12	23.40	23.40	0.219	33.01	-9.61
	256-QAM	2502.5	0.00	1 / 0	21.12	21.12	0.129	33.01	-11.89
10 MHz	QPSK	2505.0	0.00	1 / 49	25.08	25.08	0.322	33.01	-7.93
		2535.0	0.00	1 / 49	25.20	25.20	0.331	33.01	-7.81
		2565.0	0.00	1 / 49	25.10	25.10	0.324	33.01	-7.91
	16-QAM	2505.0	0.00	1 / 49	24.25	24.25	0.266	33.01	-8.76
		2535.0	0.00	1 / 25	24.25	24.25	0.266	33.01	-8.76
	64-QAM	2505.0	0.00	1 / 25	23.56	23.56	0.227	33.01	-9.45
15 MHz	QPSK	2507.5	0.00	1 / 37	25.18	25.18	0.330	33.01	-7.83
		2535.0	0.00	1 / 37	25.20	25.20	0.331	33.01	-7.81
		2562.5	0.00	1 / 37	24.91	24.91	0.310	33.01	-8.10
	16-QAM	2507.5	0.00	1 / 37	24.34	24.34	0.272	33.01	-8.67
	64-QAM	2507.5	0.00	1 / 0	23.65	23.65	0.232	33.01	-9.36
		2507.5	0.00	1 / 0	20.91	20.91	0.123	33.01	-12.10
20 MHz	QPSK	2507.5	0.00	1 / 0	20.91	20.91	0.123	33.01	-12.10
		2562.5	0.00	1 / 0	20.91	20.91	0.123	33.01	-12.10
		2510.0	0.00	1 / 50	25.14	25.14	0.327	33.01	-7.87
	16-QAM	2535.0	0.00	1 / 50	24.86	24.86	0.306	33.01	-8.15
		2560.0	0.00	1 / 50	25.20	25.20	0.331	33.01	-7.81
		2560.0	0.00	1 / 50	24.69	24.69	0.294	33.01	-8.32
	64-QAM	2510.0	0.00	1 / 50	23.73	23.73	0.236	33.01	-9.28
	256-QAM	2560.0	0.00	1 / 0	20.94	20.94	0.124	33.01	-12.07

Table 7-26. Antenna 3 EIRP Data (LTE Band 7)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical 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]
5 MHz	QPSK	2498.5	1.20	1 / 12	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 0	27.19	28.39	0.690	33.01	-4.62
		2687.5	1.20	1 / 0	27.11	28.31	0.678	33.01	-4.70
	16-QAM	2498.5	1.20	1 / 12	26.78	27.98	0.628	33.01	-5.03
	64-QAM	2687.5	1.20	1 / 12	25.74	26.94	0.494	33.01	-6.07
	256-QAM	2593.0	1.20	1 / 0	23.22	24.42	0.277	33.01	-8.59
10 MHz	QPSK	2501.0	1.20	1 / 25	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 25	27.09	28.29	0.675	33.01	-4.72
		2685.0	1.20	1 / 0	27.17	28.37	0.687	33.01	-4.64
	16-QAM	2501.0	1.20	1 / 0	26.54	27.74	0.594	33.01	-5.27
	64-QAM	2501.0	1.20	1 / 0	25.53	26.73	0.471	33.01	-6.28
	256-QAM	2685.0	1.20	1 / 0	23.19	24.39	0.275	33.01	-8.62
15 MHz	QPSK	2503.5	1.20	1 / 37	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 37	27.16	28.36	0.685	33.01	-4.65
		2682.5	1.20	1 / 0	27.02	28.22	0.664	33.01	-4.79
	16-QAM	2682.5	1.20	1 / 0	26.50	27.70	0.589	33.01	-5.31
	64-QAM	2593.0	1.20	1 / 37	25.60	26.80	0.479	33.01	-6.21
	256-QAM	2503.5	1.20	1 / 0	23.21	24.41	0.276	33.01	-8.60
20 MHz	QPSK	2506.0	1.20	1 / 50	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 0	27.11	28.31	0.678	33.01	-4.70
		2680.0	1.20	1 / 50	27.11	28.31	0.678	33.01	-4.70
	16-QAM	2506.0	1.20	1 / 50	27.00	28.20	0.661	33.01	-4.81
	64-QAM	2593.0	1.20	1 / 50	26.06	27.26	0.532	33.01	-5.75
	256-QAM	2506.0	1.20	1 / 0	23.08	24.28	0.268	33.01	-8.73

Table 7-27. Antenna 3 EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 204 of 278

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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]
5 MHz	QPSK	2498.5	1.20	1 / 12	25.70	26.90	0.490	33.01	-6.11
		2593.0	1.20	1 / 12	25.61	26.81	0.480	33.01	-6.20
		2687.5	1.20	1 / 12	25.40	26.60	0.457	33.01	-6.41
	16-QAM	2498.5	1.20	1 / 12	24.82	26.02	0.400	33.01	-6.99
	64-QAM	2498.5	1.20	1 / 12	23.77	24.97	0.314	33.01	-8.04
	256-QAM	2498.5	1.20	1 / 0	21.50	22.70	0.186	33.01	-10.31
10 MHz	QPSK	2501.0	1.20	1 / 25	25.70	26.90	0.490	33.01	-6.11
		2593.0	1.20	1 / 25	25.66	26.86	0.485	33.01	-6.15
		2685.0	1.20	1 / 0	25.46	26.66	0.463	33.01	-6.35
	16-QAM	2501.0	1.20	1 / 0	24.58	25.78	0.378	33.01	-7.23
	64-QAM	2501.0	1.20	1 / 0	23.91	25.11	0.324	33.01	-7.90
	256-QAM	2593.0	1.20	1 / 0	21.43	22.63	0.183	33.01	-10.38
15 MHz	QPSK	2503.5	1.20	1 / 37	25.67	26.87	0.486	33.01	-6.14
		2593.0	1.20	1 / 37	25.69	26.89	0.489	33.01	-6.12
		2682.5	1.20	1 / 37	25.52	26.72	0.470	33.01	-6.29
	16-QAM	2593.0	1.20	1 / 37	24.67	25.87	0.386	33.01	-7.14
	64-QAM	2503.5	1.20	1 / 37	23.67	24.87	0.307	33.01	-8.14
	256-QAM	2503.5	1.20	1 / 0	21.39	22.59	0.182	33.01	-10.42
20 MHz	QPSK	2506.0	1.20	1 / 50	25.70	26.90	0.490	33.01	-6.11
		2593.0	1.20	1 / 50	25.66	26.86	0.485	33.01	-6.15
		2680.0	1.20	1 / 50	25.66	26.86	0.485	33.01	-6.15
	16-QAM	2506.0	1.20	1 / 50	25.07	26.27	0.424	33.01	-6.74
	64-QAM	2680.0	1.20	1 / 50	23.84	25.04	0.319	33.01	-7.97
	256-QAM	2593.0	1.20	1 / 0	21.30	22.50	0.178	33.01	-10.51

LB41 (PC3) Port D

Table 7-28. Antenna 3 EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2307.5	-2.50	1 / 23	24.88	22.38	0.173	23.98	-1.60
		2310.0	-2.50	1 / 1	25.20	22.70	0.186	23.98	-1.28
		2312.5	-2.50	1 / 23	25.04	22.54	0.179	23.98	-1.44
	QPSK	2307.5	-2.50	1 / 23	25.15	22.65	0.184	23.98	-1.33
		2310.0	-2.50	1 / 1	25.09	22.59	0.182	23.98	-1.39
		2312.5	-2.50	1 / 1	25.00	22.50	0.178	23.98	-1.48
	16-QAM	2310.0	-2.50	1 / 12	24.40	21.90	0.155	23.98	-2.08
	64-QAM	2312.5	-2.50	1 / 12	22.88	20.38	0.109	23.98	-3.60
	256-QAM	2310.0	-2.50	1 / 1	20.52	18.02	0.063	23.98	-5.96
10 MHz	$\pi/2$ BPSK	2310.0	-2.50	1 / 25	25.20	22.70	0.186	23.98	-1.28
	QPSK	2310.0	-2.50	1 / 25	24.80	22.30	0.170	23.98	-1.68
	16-QAM	2310.0	-2.50	1 / 25	24.31	21.81	0.152	23.98	-2.17
	64-QAM	2310.0	-2.50	1 / 25	22.70	20.20	0.105	23.98	-3.78
	256-QAM	2310.0	-2.50	50 / 0	20.05	17.55	0.057	23.98	-6.43

Table 7-29. Antenna 3 EIRP Data (NR Band n30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2502.5	0.00	1 / 1	25.13	25.13	0.326	33.01	-7.88
		2535.0	0.00	1 / 23	25.14	25.14	0.327	33.01	-7.87
		2567.5	0.00	1 / 23	24.93	24.93	0.311	33.01	-8.08
	QPSK	2502.5	0.00	1 / 12	25.20	25.20	0.331	33.01	-7.81
		2535.0	0.00	1 / 1	25.07	25.07	0.321	33.01	-7.94
		2567.5	0.00	1 / 1	25.19	25.19	0.330	33.01	-7.82
	16-QAM	2535.0	0.00	1 / 1	24.22	24.22	0.264	33.01	-8.79
	64-QAM	2567.5	0.00	1 / 1	23.21	23.21	0.209	33.01	-9.80
10 MHz	$\pi/2$ BPSK	2535.0	0.00	1 / 1	20.15	20.15	0.104	33.01	-12.86
		2505.0	0.00	1 / 50	25.20	25.20	0.331	33.01	-7.81
		2535.0	0.00	1 / 50	25.08	25.08	0.322	33.01	-7.93
	QPSK	2565.0	0.00	1 / 50	25.20	25.20	0.331	33.01	-7.81
		2505.0	0.00	1 / 1	25.14	25.14	0.327	33.01	-7.87
		2535.0	0.00	1 / 1	25.16	25.16	0.328	33.01	-7.85
	16-QAM	2565.0	0.00	1 / 1	25.20	25.20	0.331	33.01	-7.81
		2535.0	0.00	1 / 50	24.20	24.20	0.263	33.01	-8.81
15 MHz	$\pi/2$ BPSK	2565.0	0.00	1 / 50	23.20	23.20	0.209	33.01	-9.81
		2505.0	0.00	1 / 25	20.25	20.25	0.106	33.01	-12.76
		2507.5	0.00	1 / 37	25.11	25.11	0.324	33.01	-7.90
	QPSK	2535.0	0.00	1 / 73	25.20	25.20	0.331	33.01	-7.81
		2562.5	0.00	1 / 1	25.17	25.17	0.329	33.01	-7.84
		2507.5	0.00	1 / 1	24.89	24.89	0.308	33.01	-8.12
	16-QAM	2535.0	0.00	1 / 73	25.19	25.19	0.330	33.01	-7.82
		2562.5	0.00	1 / 73	25.18	25.18	0.330	33.01	-7.83
20 MHz	$\pi/2$ BPSK	2535.0	0.00	1 / 37	24.15	24.15	0.260	33.01	-8.86
		2562.5	0.00	1 / 73	24.15	24.15	0.260	33.01	-8.86
		2507.5	0.00	1 / 37	23.20	23.20	0.209	33.01	-9.81
	QPSK	2562.5	0.00	1 / 1	20.21	20.21	0.105	33.01	-12.80
		2535.0	0.00	1 / 50	25.20	25.20	0.331	33.01	-7.81
		2560.0	0.00	1 / 50	24.96	24.96	0.313	33.01	-8.05
	16-QAM	2560.0	0.00	1 / 50	25.03	25.03	0.318	33.01	-7.98
		2510.0	0.00	1 / 50	25.13	25.13	0.326	33.01	-7.88
25 MHz	$\pi/2$ BPSK	2535.0	0.00	1 / 1	25.06	25.06	0.321	33.01	-7.95
		2560.0	0.00	1 / 1	25.14	25.14	0.327	33.01	-7.87
		2510.0	0.00	1 / 98	24.22	24.22	0.264	33.01	-8.79
	QPSK	2510.0	0.00	1 / 98	23.21	23.21	0.209	33.01	-9.80
		2535.0	0.00	1 / 98	20.08	20.08	0.102	33.01	-12.93
		2512.5	0.00	1 / 1	24.98	24.98	0.315	33.01	-8.03
	16-QAM	2535.0	0.00	1 / 66	25.15	25.15	0.327	33.01	-7.86
		2567.5	0.00	1 / 1	25.20	25.20	0.331	33.01	-7.81
30 MHz	$\pi/2$ BPSK	2512.5	0.00	1 / 1	25.15	25.15	0.327	33.01	-7.86
		2535.0	0.00	1 / 66	25.07	25.07	0.321	33.01	-7.94
		2567.5	0.00	1 / 66	25.18	25.18	0.330	33.01	-7.83
	QPSK	2512.5	0.00	1 / 1	24.27	24.27	0.267	33.01	-8.74
		2512.5	0.00	1 / 1	23.22	23.22	0.210	33.01	-9.79
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
	16-QAM	2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
40 MHz	$\pi/2$ BPSK	2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
	QPSK	2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
	16-QAM	2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74
		2512.5	0.00	1 / 66	20.27	20.27	0.106	33.01	-12.74

Table 7-30. Antenna 3 EIRP Data (NR Band n7)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
20 MHz	π/2 BPSK	2506.0	1.20	1 / 25	27.10	28.30	0.676	33.01	-4.71
		2593.0	1.20	1 / 49	27.00	28.20	0.661	33.01	-4.81
		2680.0	1.20	1 / 25	27.20	28.40	0.692	33.01	-4.61
	QPSK	2506.0	1.20	1 / 25	27.12	28.32	0.679	33.01	-4.69
		2593.0	1.20	1 / 49	26.92	28.12	0.649	33.01	-4.89
		2680.0	1.20	1 / 1	26.92	28.12	0.649	33.01	-4.89
	16-QAM	2680.0	1.20	1 / 25	26.20	27.40	0.550	33.01	-5.61
	64-QAM	2506.0	1.20	1 / 1	25.16	26.36	0.433	33.01	-6.65
	256-QAM	2506.0	1.20	1 / 25	22.20	23.40	0.219	33.01	-9.61
	256-QAM	2506.0	1.20	1 / 25	22.20	23.40	0.219	33.01	-9.61
30 MHz	π/2 BPSK	2511.0	1.20	1 / 1	27.17	28.37	0.687	33.01	-4.64
		2593.0	1.20	1 / 39	27.05	28.25	0.668	33.01	-4.76
		2675.0	1.20	1 / 76	27.20	28.40	0.692	33.01	-4.61
	QPSK	2511.0	1.20	1 / 39	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 39	26.99	28.19	0.659	33.01	-4.82
		2675.0	1.20	1 / 1	27.15	28.35	0.684	33.01	-4.66
	16-QAM	2675.0	1.20	1 / 76	26.15	27.35	0.543	33.01	-5.66
	64-QAM	2675.0	1.20	1 / 76	25.19	26.39	0.436	33.01	-6.62
	256-QAM	2511.0	1.20	1 / 1	22.19	23.39	0.218	33.01	-9.62
	256-QAM	2511.0	1.20	1 / 1	22.19	23.39	0.218	33.01	-9.62
	256-QAM	2511.0	1.20	1 / 1	22.19	23.39	0.218	33.01	-9.62
40 MHz	π/2 BPSK	2516.0	1.20	1 / 1	27.01	28.21	0.662	33.01	-4.80
		2593.0	1.20	1 / 1	27.13	28.33	0.681	33.01	-4.68
		2670.0	1.20	1 / 1	27.15	28.35	0.684	33.01	-4.66
	QPSK	2516.0	1.20	1 / 53	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 104	27.10	28.30	0.676	33.01	-4.71
		2670.0	1.20	1 / 53	27.13	28.33	0.681	33.01	-4.68
	16-QAM	2593.0	1.20	1 / 1	26.17	27.37	0.546	33.01	-5.64
	64-QAM	2593.0	1.20	1 / 1	25.15	26.35	0.432	33.01	-6.66
	256-QAM	2670.0	1.20	1 / 1	22.17	23.37	0.217	33.01	-9.64
	256-QAM	2670.0	1.20	1 / 1	22.17	23.37	0.217	33.01	-9.64
	256-QAM	2670.0	1.20	1 / 1	22.17	23.37	0.217	33.01	-9.64
50 MHz	π/2 BPSK	2521.0	1.20	1 / 131	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 66	27.06	28.26	0.670	33.01	-4.75
		2665.0	1.20	1 / 131	27.03	28.23	0.665	33.01	-4.78
	QPSK	2521.0	1.20	1 / 131	27.13	28.33	0.681	33.01	-4.68
		2593.0	1.20	1 / 131	27.03	28.23	0.665	33.01	-4.78
		2665.0	1.20	1 / 131	27.16	28.36	0.685	33.01	-4.65
	16-QAM	2665.0	1.20	1 / 1	26.16	27.36	0.545	33.01	-5.65
	64-QAM	2521.0	1.20	1 / 1	25.18	26.38	0.435	33.01	-6.63
	256-QAM	2593.0	1.20	1 / 131	22.13	23.33	0.215	33.01	-9.68
	256-QAM	2593.0	1.20	1 / 131	22.13	23.33	0.215	33.01	-9.68
	256-QAM	2593.0	1.20	1 / 131	22.13	23.33	0.215	33.01	-9.68
60 MHz	π/2 BPSK	2526.0	1.20	1 / 81	27.15	28.35	0.684	33.01	-4.66
		2593.0	1.20	1 / 1	27.00	28.20	0.661	33.01	-4.81
		2660.0	1.20	1 / 160	27.00	28.20	0.661	33.01	-4.81
	QPSK	2526.0	1.20	1 / 81	27.20	28.40	0.692	33.01	-4.61
		2593.0	1.20	1 / 1	27.11	28.31	0.678	33.01	-4.70
		2660.0	1.20	1 / 160	26.91	28.11	0.647	33.01	-4.90
	16-QAM	2660.0	1.20	1 / 1	26.20	27.40	0.550	33.01	-5.61
	64-QAM	2660.0	1.20	1 / 1	25.06	26.26	0.423	33.01	-6.75
	256-QAM	2660.0	1.20	1 / 160	22.19	23.39	0.218	33.01	-9.62
	256-QAM	2660.0	1.20	1 / 160	22.19	23.39	0.218	33.01	-9.62
	256-QAM	2660.0	1.20	1 / 160	22.19	23.39	0.218	33.01	-9.62
70 MHz	π/2 BPSK	2531.0	1.20	1 / 160	27.06	28.26	0.670	33.01	-4.75
		2593.0	1.20	1 / 1	27.17	28.37	0.687	33.01	-4.64
		2655.0	1.20	1 / 1	27.20	28.40	0.692	33.01	-4.61
	QPSK	2531.0	1.20	1 / 1	27.10	28.30	0.676	33.01	-4.71
		2593.0	1.20	1 / 81	27.07	28.27	0.671	33.01	-4.74
		2655.0	1.20	1 / 81	26.99	28.19	0.659	33.01	-4.82
	16-QAM	2531.0	1.20	1 / 81	26.21	27.41	0.551	33.01	-5.60
	64-QAM	2655.0	1.20	1 / 1	25.16	26.36	0.433	33.01	-6.65
	256-QAM	2531.0	1.20	1 / 160	22.27	23.47	0.222	33.01	-9.54
	256-QAM	2531.0	1.20	1 / 160	22.27	23.47	0.222	33.01	-9.54
	256-QAM	2531.0	1.20	1 / 160	22.27	23.47	0.222	33.01	-9.54
80 MHz	π/2 BPSK	2536.0	1.20	1 / 108	27.14	28.34	0.682	33.01	-4.67
		2593.0	1.20	1 / 1	27.17	28.37	0.687	33.01	-4.64
		2650.0	1.20	1 / 1	27.08	28.28	0.673	33.01	-4.73
	QPSK	2536.0	1.20	1 / 108	27.16	28.36	0.685	33.01	-4.65
		2593.0	1.20	1 / 1	27.07	28.27	0.671	33.01	-4.74
		2650.0	1.20	1 / 1	27.09	28.29	0.675	33.01	-4.72
	16-QAM	2593.0	1.20	1 / 1	26.18	27.38	0.547	33.01	-5.63
	64-QAM	2536.0	1.20	1 / 215	25.20	26.40	0.437	33.01	-6.61
	256-QAM	2536.0	1.20	1 / 215	22.19	23.39	0.218	33.01	-9.62
	256-QAM	2536.0	1.20	1 / 215	22.19	23.39	0.218	33.01	-9.62
	256-QAM	2536.0	1.20	1 / 215	22.19	23.39	0.218	33.01	-9.62
90 MHz	π/2 BPSK	2541.0	1.20	1 / 1	27.05	28.25	0.668	33.01	-4.76
		2593.0	1.20	1 / 243	27.19	28.39	0.690	33.01	-4.62
		2645.0	1.20	1 / 122	27.20	28.40	0.692	33.01	-4.61
	QPSK	2541.0	1.20	1 / 1	26.78	27.98	0.628	33.01	-5.03
		2593.0	1.20	1 / 122	27.17	28.37	0.687	33.01	-4.64
		2645.0	1.20	1 / 1	27.08	28.28	0.673	33.01	-4.73
	16-QAM	2541.0	1.20	1 / 243	26.22	27.42	0.552	33.01	-5.59
	64-QAM	2645.0	1.20	1 / 243	25.16	26.36	0.433	33.01	-6.65
	256-QAM	2541.0	1.20	1 / 122	22.12	23.32	0.215	33.01	-9.69
	256-QAM	2541.0	1.20	1 / 122	22.12	23.32	0.215	33.01	-9.69
	256-QAM	2541.0	1.20	1 / 122	22.12	23.32	0.215	33.01	-9.69
100 MHz	π/2 BPSK	2546.0	1.20	1 / 136	27.06	28.26	0.670	33.01	-4.75
		2593.0	1.20	1 / 136	27.08	28.28	0.673	33.01	-4.73
		2640.0	1.20	1 / 271	27.20	28.40	0.692	33.01	-4.61
	QPSK	2546.0	1.20	1 / 136	27.07	28.27	0.671	33.01	-4.74
		2593.0	1.20	1 / 1	27.09	28.29	0.675	33.01	-4.72
		2640.0	1.20	1 / 1	27.01	28.21	0.662	33.01	-4.80
	16-QAM	2546.0	1.20	1 / 1	26.22	27.42	0.552	33.01	-5.59
	64-QAM	2640.0	1.20	1 / 136	26.22	27.42	0.552	33.01	-5.59
	256-QAM	2640.0	1.20	1 / 271	25.22	26.42	0.439	33.01	-6.59
	256-QAM	2593.0	1.20	1 / 271	22.14	23.34	0.216	33.01	-9.67
	256-QAM	2593.0	1.20	1 / 271	22.14	23.34	0.216	33.01	-9.67

Table 7-31. Antenna 3 EIRP Data (NR Band n41 PC2)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device		Page 208 of 278

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NR Band n41 (PC3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dB]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	2506.0	1.20	1 / 25	25.39	26.59	0.456	33.01	-6.42
		2593.0	1.20	1 / 49	25.65	26.85	0.484	33.01	-6.16
		2680.0	1.20	1 / 25	25.70	26.90	0.490	33.01	-6.11
	QPSK	2506.0	1.20	1 / 1	25.61	26.81	0.480	33.01	-6.20
		2593.0	1.20	1 / 49	25.59	26.79	0.478	33.01	-6.22
		2680.0	1.20	1 / 1	25.58	26.78	0.476	33.01	-6.23
		16-QAM	2680.0	1.20	1 / 49	24.67	25.87	0.386	33.01
	64-QAM	2680.0	1.20	1 / 49	23.56	24.76	0.299	33.01	-8.25
	256-QAM	2506.0	1.20	1 / 1	20.71	21.91	0.155	33.01	-11.10
	30 MHz	π/2 BPSK	2511.0	1.20	1 / 76	25.69	26.89	0.489	33.01
2593.0			1.20	1 / 76	25.61	26.81	0.480	33.01	-6.20
2675.0			1.20	1 / 76	25.58	26.78	0.476	33.01	-6.23
QPSK		2511.0	1.20	1 / 1	25.49	26.69	0.467	33.01	-6.32
		2593.0	1.20	1 / 1	25.53	26.73	0.471	33.01	-6.28
		2675.0	1.20	1 / 1	25.70	26.90	0.490	33.01	-6.11
		16-QAM	2593.0	1.20	1 / 76	24.70	25.90	0.389	33.01
64-QAM		2593.0	1.20	1 / 39	23.74	24.94	0.312	33.01	-8.07
256-QAM		2593.0	1.20	1 / 1	20.67	21.87	0.154	33.01	-11.14
40 MHz		π/2 BPSK	2516.0	1.20	1 / 53	25.70	26.90	0.490	33.01
	2593.0		1.20	1 / 1	25.43	26.63	0.460	33.01	-6.38
	2670.0		1.20	1 / 53	25.62	26.82	0.481	33.01	-6.19
	QPSK	2516.0	1.20	1 / 1	25.63	26.83	0.482	33.01	-6.18
		2593.0	1.20	1 / 104	25.67	26.87	0.486	33.01	-6.14
		2670.0	1.20	1 / 1	25.70	26.90	0.490	33.01	-6.11
		16-QAM	2670.0	1.20	1 / 53	24.77	25.97	0.395	33.01
	64-QAM	2670.0	1.20	1 / 104	23.77	24.97	0.314	33.01	-8.04
	256-QAM	2670.0	1.20	1 / 53	20.76	21.96	0.157	33.01	-11.05
	50 MHz	π/2 BPSK	2521.0	1.20	1 / 66	25.35	26.55	0.452	33.01
2593.0			1.20	1 / 1	25.67	26.87	0.486	33.01	-6.14
2665.0			1.20	1 / 131	25.57	26.77	0.475	33.01	-6.24
QPSK		2521.0	1.20	1 / 1	25.67	26.87	0.486	33.01	-6.14
		2593.0	1.20	1 / 1	25.51	26.71	0.469	33.01	-6.30
		2665.0	1.20	1 / 131	25.70	26.90	0.490	33.01	-6.11
		16-QAM	2665.0	1.20	1 / 1	24.69	25.89	0.388	33.01
64-QAM		2521.0	1.20	1 / 66	23.71	24.91	0.310	33.01	-8.10
256-QAM		2593.0	1.20	1 / 1	20.71	21.91	0.155	33.01	-11.10
60 MHz		π/2 BPSK	2526.0	1.20	1 / 1	25.67	26.87	0.486	33.01
	2593.0		1.20	1 / 1	25.67	26.87	0.486	33.01	-6.14
	2660.0		1.20	1 / 160	25.70	26.90	0.490	33.01	-6.11
	QPSK	2526.0	1.20	1 / 1	25.64	26.84	0.483	33.01	-6.17
		2593.0	1.20	1 / 160	25.37	26.57	0.454	33.01	-6.44
		2660.0	1.20	1 / 1	25.68	26.88	0.488	33.01	-6.13
		16-QAM	2593.0	1.20	1 / 81	24.66	25.86	0.385	33.01
	64-QAM	2526.0	1.20	1 / 160	23.69	24.89	0.308	33.01	-8.12
	256-QAM	2593.0	1.20	1 / 81	20.68	21.88	0.154	33.01	-11.13
	70 MHz	π/2 BPSK	2531.0	1.20	1 / 187	25.55	26.75	0.473	33.01
2593.0			1.20	1 / 1	25.27	26.47	0.444	33.01	-6.54
2655.0			1.20	1 / 1	25.56	26.76	0.474	33.01	-6.25
QPSK		2531.0	1.20	1 / 90	25.44	26.64	0.461	33.01	-6.37
		2593.0	1.20	1 / 1	25.21	26.41	0.438	33.01	-6.60
		2655.0	1.20	1 / 1	25.46	26.66	0.463	33.01	-6.35
		16-QAM	2531.0	1.20	180 / 0	25.46	26.66	0.463	33.01
64-QAM		2531.0	1.20	1 / 90	24.47	25.67	0.369	33.01	-7.34
256-QAM		2531.0	1.20	180 / 0	23.40	24.60	0.288	33.01	-8.41
80 MHz		π/2 BPSK	2536.0	1.20	1 / 215	25.70	26.90	0.490	33.01
	2593.0		1.20	1 / 215	25.69	26.89	0.489	33.01	-6.12
	2650.0		1.20	1 / 108	25.53	26.73	0.471	33.01	-6.28
	QPSK	2536.0	1.20	1 / 1	25.54	26.74	0.472	33.01	-6.27
		2593.0	1.20	1 / 215	25.56	26.76	0.474	33.01	-6.25
		2650.0	1.20	1 / 108	25.61	26.81	0.480	33.01	-6.20
		16-QAM	2593.0	1.20	1 / 108	24.64	25.84	0.384	33.01
	64-QAM	2536.0	1.20	1 / 108	23.59	24.79	0.301	33.01	-8.22
	256-QAM	2536.0	1.20	1 / 1	20.70	21.90	0.155	33.01	-11.11
	90 MHz	π/2 BPSK	2541.0	1.20	1 / 1	25.46	26.66	0.463	33.01
2593.0			1.20	1 / 1	25.51	26.71	0.469	33.01	-6.30
2645.0			1.20	1 / 1	25.70	26.90	0.490	33.01	-6.11
QPSK		2541.0	1.20	1 / 122	25.68	26.88	0.488	33.01	-6.13
		2593.0	1.20	1 / 1	25.51	26.71	0.469	33.01	-6.30
		2645.0	1.20	1 / 122	25.69	26.89	0.489	33.01	-6.12
		16-QAM	2593.0	1.20	1 / 122	24.69	25.89	0.388	33.01
64-QAM		2645.0	1.20	1 / 1	23.59	24.79	0.301	33.01	-8.22
256-QAM		2541.0	1.20	1 / 122	20.70	21.90	0.155	33.01	-11.11
100 MHz		π/2 BPSK	2546.0	1.20	1 / 271	25.70	26.90	0.490	33.01
	2593.0		1.20	1 / 136	25.53	26.73	0.471	33.01	-6.28
	2640.0		1.20	1 / 271	25.44	26.64	0.461	33.01	-6.37
	QPSK	2546.0	1.20	1 / 1	25.63	26.83	0.482	33.01	-6.18
		2593.0	1.20	1 / 1	25.65	26.85	0.484	33.01	-6.16
		2640.0	1.20	1 / 136	25.68	26.88	0.488	33.01	-6.13
		16-QAM	2593.0	1.20	1 / 136	24.70	25.90	0.389	33.01
	64-QAM	2546.0	1.20	1 / 1	23.69	24.89	0.308	33.01	-8.12
	256-QAM	2546.0	1.20	1 / 1	20.68	21.88	0.154	33.01	-11.13

Table 7-32. Antenna 3 EIRP Data (NR Band n41 PC3)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device		Page 209 of 278

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ULCA - 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	24.91	0.00	24.91	-8.10
				21100	2535.0	1	99		21298	2554.8	1	0	24.97	0.00	24.97	-8.04
				21350	2560.0	1	0		21152	2540.2	1	99	25.16	0.00	25.16	-7.85
				21350	2560	100	0		21152	2540.2	100	0	23.29	0.00	23.29	-9.72
			16-QAM	21350	2560	100	0	16-QAM	21152	2540.2	100	0	22.43	0.00	22.43	-10.58
			64-QAM	21350	2560	100	0	64-QAM	21152	2540.2	100	0	21.90	0.00	21.90	-11.11
			256-QAM	21350	2560	100	0	256-QAM	21152	2540.2	100	0	19.06	0.00	19.06	-13.95

Table 7-33. Antenna 3 EIRP Data (ULCA LTE Band 7)

ULCA - 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	27.12	1.20	28.32	-4.69
				39790	2510.0	1	99		39988	2529.8	1	0	26.77	1.20	27.97	-5.04
				40620	2593.0	1	99		40818	2612.8	1	0	26.94	1.20	28.14	-4.87
				41490	2680.0	1	0		41292	2660.2	1	99	27.2	1.20	28.40	-4.61
			QPSK	41490	2680	100	0	QPSK	41292	2660.2	100	0	25.82	1.20	27.02	-5.89
			16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	24.61	1.20	25.81	-7.20
			64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	23.46	1.20	24.66	-8.35
			256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	20.47	1.20	21.67	-11.34

Table 7-34. Antenna 3 EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - 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	25.34	1.20	26.54	-6.47
				39790	2510.0	1	99		39988	2529.8	1	0	25.47	1.20	26.67	-6.34
				40620	2593.0	1	99		40818	2612.8	1	0	25.29	1.20	26.49	-6.52
				41490	2680.0	1	0		41292	2660.2	1	99	25.69	1.20	26.89	-6.12
			QPSK	41490	2680	100	0	QPSK	41292	2660.2	100	0	24.43	1.20	25.63	-7.38
			16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	23.12	1.20	24.32	-8.69
			64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	22.11	1.20	23.31	-9.70
			256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	18.76	1.20	19.96	-13.05

Table 7-35. Antenna 3 EIRP Data (ULCA LTE Band 41 (PC3))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6.4 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]
5 MHz	QPSK	2307.5	-0.50	1 / 12	22.70	22.20	0.166	23.98	-1.78
		2310.0	-0.50	1 / 12	22.52	22.02	0.159	23.98	-1.96
		2312.5	-0.50	1 / 12	22.56	22.06	0.161	23.98	-1.92
	16-QAM	2310.0	-0.50	1 / 12	21.75	21.25	0.133	23.98	-2.73
	64-QAM	2310.0	-0.50	1 / 12	22.23	21.73	0.149	23.98	-2.25
	256-QAM	2312.5	-0.50	1 / 12	18.85	18.35	0.068	23.98	-5.63
10 MHz	QPSK	2310.0	-0.50	1 / 0	22.70	22.20	0.166	23.98	-1.78
	16-QAM	2310.0	-0.50	1 / 0	21.76	21.26	0.134	23.98	-2.72
	64-QAM	2310.0	-0.50	1 / 25	20.91	20.41	0.110	23.98	-3.57
	256-QAM	2310.0	-0.50	1 / 0	18.34	17.84	0.061	23.98	-6.14

Table 7-36. Antenna 2b EIRP Data (LTE Band 30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 211 of 278

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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]
5 MHz	QPSK	2502.5	-1.10	1 / 12	22.20	21.10	0.129	33.01	-11.91
		2535.0	-1.10	1 / 0	22.19	21.09	0.129	33.01	-11.92
		2567.5	-1.10	1 / 0	22.09	20.99	0.126	33.01	-12.02
	16-QAM	2535.0	-1.10	1 / 0	21.19	20.09	0.102	33.01	-12.92
	64-QAM	2535.0	-1.10	1 / 24	20.24	19.14	0.082	33.01	-13.87
	256-QAM	2535.0	-1.10	1 / 0	18.19	17.09	0.051	33.01	-15.92
10 MHz	QPSK	2505.0	-1.10	1 / 0	22.18	21.08	0.128	33.01	-11.93
		2535.0	-1.10	1 / 0	22.20	21.10	0.129	33.01	-11.91
		2565.0	-1.10	1 / 0	22.14	21.04	0.127	33.01	-11.97
	16-QAM	2535.0	-1.10	1 / 49	21.42	20.32	0.108	33.01	-12.69
	64-QAM	2535.0	-1.10	1 / 25	20.55	19.45	0.088	33.01	-13.56
	256-QAM	2565.0	-1.10	1 / 0	18.15	17.05	0.051	33.01	-15.96
15 MHz	QPSK	2507.5	-1.10	1 / 37	22.20	21.10	0.129	33.01	-11.91
		2535.0	-1.10	1 / 37	22.19	21.09	0.129	33.01	-11.92
		2562.5	-1.10	1 / 0	22.04	20.94	0.124	33.01	-12.07
	16-QAM	2562.5	-1.10	1 / 37	21.36	20.26	0.106	33.01	-12.75
	64-QAM	2507.5	-1.10	1 / 37	20.64	19.54	0.090	33.01	-13.47
	256-QAM	2507.5	-1.10	1 / 0	18.19	17.09	0.051	33.01	-15.92
20 MHz	QPSK	2510.0	-1.10	1 / 50	22.20	21.10	0.129	33.01	-11.91
		2535.0	-1.10	1 / 0	22.08	20.98	0.125	33.01	-12.03
		2560.0	-1.10	1 / 50	22.18	21.08	0.128	33.01	-11.93
	16-QAM	2535.0	-1.10	1 / 50	21.47	20.37	0.109	33.01	-12.64
	64-QAM	2510.0	-1.10	1 / 50	20.58	19.48	0.089	33.01	-13.53
	256-QAM	2535.0	-1.10	1 / 0	18.12	17.02	0.050	33.01	-15.99

Table 7-37. Antenna 2b EIRP Data (LTE Band 7)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 212 of 278

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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]
5 MHz	QPSK	2498.5	-0.60	1 / 12	28.20	27.60	0.575	33.01	-5.41
		2593.0	-0.60	1 / 0	28.19	27.59	0.574	33.01	-5.42
		2687.5	-0.60	1 / 0	28.15	27.55	0.569	33.01	-5.46
	16-QAM	2593.0	-0.60	1 / 0	27.73	27.13	0.516	33.01	-5.88
	64-QAM	2593.0	-0.60	1 / 0	27.38	26.78	0.476	33.01	-6.23
	256-QAM	2687.5	-0.60	1 / 0	23.86	23.26	0.212	33.01	-9.75
10 MHz	QPSK	2501.0	-0.60	1 / 25	28.20	27.60	0.575	33.01	-5.41
		2593.0	-0.60	1 / 25	28.05	27.45	0.556	33.01	-5.56
		2685.0	-0.60	1 / 25	28.08	27.48	0.560	33.01	-5.53
	16-QAM	2501.0	-0.60	1 / 25	27.53	26.93	0.493	33.01	-6.08
	64-QAM	2501.0	-0.60	1 / 25	26.78	26.18	0.415	33.01	-6.83
	256-QAM	2501.0	-0.60	1 / 49	23.96	23.36	0.217	33.01	-9.65
15 MHz	QPSK	2503.5	-0.60	1 / 37	28.20	27.60	0.575	33.01	-5.41
		2593.0	-0.60	1 / 74	28.20	27.60	0.575	33.01	-5.41
		2682.5	-0.60	1 / 37	28.10	27.50	0.562	33.01	-5.51
	16-QAM	2682.5	-0.60	1 / 37	27.65	27.05	0.507	33.01	-5.96
	64-QAM	2593.0	-0.60	1 / 0	26.18	25.58	0.361	33.01	-7.43
	256-QAM	2503.5	-0.60	1 / 37	23.42	22.82	0.191	33.01	-10.19
20 MHz	QPSK	2506.0	-0.60	1 / 50	28.20	27.60	0.575	33.01	-5.41
		2593.0	-0.60	1 / 50	28.16	27.56	0.570	33.01	-5.45
		2680.0	-0.60	1 / 50	28.20	27.60	0.575	33.01	-5.41
	16-QAM	2593.0	-0.60	1 / 50	27.74	27.14	0.518	33.01	-5.87
	64-QAM	2506.0	-0.60	1 / 50	26.79	26.19	0.416	33.01	-6.82
	256-QAM	2506.0	-0.60	1 / 0	23.72	23.12	0.205	33.01	-9.89

Table 7-38. Antenna 2b EIRP Data (LTE Band 41(PC2))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical 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]
5 MHz	QPSK	2498.5	-0.60	1 / 12	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 12	25.58	24.98	0.315	33.01	-8.03
		2687.5	-0.60	1 / 12	25.47	24.87	0.307	33.01	-8.14
	16-QAM	2498.5	-0.60	1 / 12	24.65	24.05	0.254	33.01	-8.96
	64-QAM	2593.0	-0.60	1 / 24	23.73	23.13	0.206	33.01	-9.88
	256-QAM	2498.5	-0.60	1 / 12	20.78	20.18	0.104	33.01	-12.83
10 MHz	QPSK	2501.0	-0.60	1 / 25	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 25	25.59	24.99	0.316	33.01	-8.02
		2685.0	-0.60	1 / 25	25.53	24.93	0.311	33.01	-8.08
	16-QAM	2501.0	-0.60	1 / 25	24.57	23.97	0.249	33.01	-9.04
	64-QAM	2685.0	-0.60	1 / 25	23.81	23.21	0.209	33.01	-9.80
	256-QAM	2685.0	-0.60	1 / 49	20.84	20.24	0.106	33.01	-12.77
15 MHz	QPSK	2503.5	-0.60	1 / 37	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 0	25.61	25.01	0.317	33.01	-8.00
		2682.5	-0.60	1 / 0	25.67	25.07	0.321	33.01	-7.94
	16-QAM	2503.5	-0.60	1 / 0	24.69	24.09	0.256	33.01	-8.92
	64-QAM	2503.5	-0.60	1 / 0	23.70	23.10	0.204	33.01	-9.91
	256-QAM	2503.5	-0.60	1 / 0	21.65	21.05	0.127	33.01	-11.96
20 MHz	QPSK	2506.0	-0.60	1 / 50	25.66	25.06	0.321	33.01	-7.95
		2593.0	-0.60	1 / 0	25.64	25.04	0.319	33.01	-7.97
		2680.0	-0.60	1 / 99	25.70	25.10	0.324	33.01	-7.91
	16-QAM	2506.0	-0.60	1 / 50	24.85	24.25	0.266	33.01	-8.76
	64-QAM	2506.0	-0.60	1 / 50	23.88	23.28	0.213	33.01	-9.73
	256-QAM	2680.0	-0.60	1 / 0	21.60	21.00	0.126	33.01	-12.01

Table 7-39. Antenna 2b EIRP Data (LTE Band 41(PC3))

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2307.5	-0.50	1 / 1	21.99	21.49	0.141	23.98	-2.49
		2310.0	-0.50	1 / 12	22.20	21.70	0.148	23.98	-2.28
		2312.5	-0.50	1 / 12	21.99	21.49	0.141	23.98	-2.49
	QPSK	2307.5	-0.50	1 / 12	21.82	21.32	0.136	23.98	-2.66
		2310.0	-0.50	1 / 23	21.92	21.42	0.139	23.98	-2.56
		2312.5	-0.50	1 / 23	22.00	21.50	0.141	23.98	-2.48
	16-QAM	2307.5	-0.50	1 / 1	21.15	20.65	0.116	23.98	-3.33
	64-QAM	2312.5	-0.50	1 / 12	19.58	19.08	0.081	23.98	-4.90
	256-QAM	2310.0	-0.50	1 / 1	17.50	17.00	0.050	23.98	-6.98
10 MHz	$\pi/2$ BPSK	2310.0	-0.50	1 / 50	22.03	21.53	0.142	23.98	-2.45
	QPSK	2310.0	-0.50	1 / 25	22.20	21.70	0.148	23.98	-2.28
	16-QAM	2310.0	-0.50	1 / 50	20.94	20.44	0.111	23.98	-3.54
	64-QAM	2310.0	-0.50	1 / 25	19.86	19.36	0.086	23.98	-4.62
	256-QAM	2310.0	-0.50	1 / 25	17.49	16.99	0.050	23.98	-6.99

Table 7-40. Antenna 2b EIRP Data (NR Band n30)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	2502.5	-1.10	1 / 23	22.20	21.10	0.129	33.01	-11.91
		2535.0	-1.10	1 / 12	22.17	21.07	0.128	33.01	-11.94
		2567.5	-1.10	1 / 12	22.20	21.10	0.129	33.01	-11.91
	QPSK	2502.5	-1.10	1 / 1	22.16	21.06	0.128	33.01	-11.95
		2535.0	-1.10	1 / 12	22.13	21.03	0.127	33.01	-11.98
		2567.5	-1.10	1 / 12	22.08	20.98	0.125	33.01	-12.03
	16-QAM	2567.5	-1.10	1 / 23	21.18	20.08	0.102	33.01	-12.93
	64-QAM	2567.5	-1.10	1 / 1	20.19	19.09	0.081	33.01	-13.92
	256-QAM	2502.5	-1.10	1 / 23	17.19	16.09	0.041	33.01	-16.92
10 MHz	$\pi/2$ BPSK	2505.0	-1.10	1 / 1	22.09	20.99	0.126	33.01	-12.02
		2535.0	-1.10	1 / 25	22.20	21.10	0.129	33.01	-11.91
		2565.0	-1.10	1 / 50	22.10	21.00	0.126	33.01	-12.01
	QPSK	2505.0	-1.10	1 / 25	22.06	20.96	0.125	33.01	-12.05
		2535.0	-1.10	1 / 50	22.17	21.07	0.128	33.01	-11.94
		2565.0	-1.10	1 / 1	22.06	20.96	0.125	33.01	-12.05
	16-QAM	2505.0	-1.10	1 / 25	21.17	20.07	0.102	33.01	-12.94
	64-QAM	2565.0	-1.10	1 / 1	20.08	18.98	0.079	33.01	-14.03
	256-QAM	2565.0	-1.10	1 / 50	17.06	15.96	0.039	33.01	-17.05
15 MHz	$\pi/2$ BPSK	2507.5	-1.10	1 / 73	22.14	21.04	0.127	33.01	-11.97
		2535.0	-1.10	1 / 73	22.14	21.04	0.127	33.01	-11.97
		2562.5	-1.10	1 / 37	22.00	20.90	0.123	33.01	-12.11
	QPSK	2507.5	-1.10	1 / 73	22.16	21.06	0.128	33.01	-11.95
		2535.0	-1.10	1 / 73	22.20	21.10	0.129	33.01	-11.91
		2562.5	-1.10	1 / 37	21.99	20.89	0.123	33.01	-12.12
	16-QAM	2535.0	-1.10	1 / 1	21.20	20.10	0.102	33.01	-12.91
	64-QAM	2507.5	-1.10	1 / 73	20.05	18.95	0.079	33.01	-14.06
	256-QAM	2535.0	-1.10	1 / 37	17.20	16.10	0.041	33.01	-16.91
20 MHz	$\pi/2$ BPSK	2510.0	-1.10	1 / 98	22.16	21.06	0.128	33.01	-11.95
		2535.0	-1.10	1 / 50	22.09	20.99	0.126	33.01	-12.02
		2560.0	-1.10	1 / 50	22.14	21.04	0.127	33.01	-11.97
	QPSK	2510.0	-1.10	1 / 1	22.20	21.10	0.129	33.01	-11.91
		2535.0	-1.10	1 / 98	22.01	20.91	0.123	33.01	-12.10
		2560.0	-1.10	1 / 1	21.95	20.85	0.122	33.01	-12.16
	16-QAM	2510.0	-1.10	1 / 98	21.15	20.05	0.101	33.01	-12.96
	64-QAM	2510.0	-1.10	1 / 98	20.19	19.09	0.081	33.01	-13.92
	256-QAM	2510.0	-1.10	1 / 1	17.17	16.07	0.040	33.01	-16.94
25 MHz	$\pi/2$ BPSK	2512.5	-1.10	1 / 131	22.15	21.05	0.127	33.01	-11.96
		2535.0	-1.10	1 / 131	22.20	21.10	0.129	33.01	-11.91
		2557.5	-1.10	1 / 1	22.01	20.91	0.123	33.01	-12.10
	QPSK	2512.5	-1.10	1 / 1	21.86	20.76	0.119	33.01	-12.25
		2535.0	-1.10	1 / 66	22.17	21.07	0.128	33.01	-11.94
		2557.5	-1.10	1 / 131	21.97	20.87	0.122	33.01	-12.14
	16-QAM	2512.5	-1.10	1 / 1	21.15	20.05	0.101	33.01	-12.96
	64-QAM	2557.5	-1.10	1 / 66	20.10	19.00	0.079	33.01	-14.01
	256-QAM	2512.5	-1.10	1 / 1	17.19	16.09	0.041	33.01	-16.92
30 MHz	$\pi/2$ BPSK	2515.0	-1.10	1 / 80	21.93	20.83	0.121	33.01	-12.18
		2535.0	-1.10	1 / 80	21.92	20.82	0.121	33.01	-12.19
		2555.0	-1.10	1 / 1	22.13	21.03	0.127	33.01	-11.98
	QPSK	2515.0	-1.10	1 / 80	22.20	21.10	0.129	33.01	-11.91
		2535.0	-1.10	1 / 80	22.04	20.94	0.124	33.01	-12.07
		2555.0	-1.10	1 / 1	22.12	21.02	0.126	33.01	-11.99
	16-QAM	2555.0	-1.10	1 / 80	21.21	20.11	0.103	33.01	-12.90
	64-QAM	2535.0	-1.10	1 / 158	20.22	19.12	0.082	33.01	-13.89
	256-QAM	2555.0	-1.10	1 / 158	17.07	15.97	0.040	33.01	-17.04
40 MHz	$\pi/2$ BPSK	2520.0	-1.10	1 / 214	22.20	21.10	0.129	33.01	-11.91
		2535.0	-1.10	1 / 1	21.94	20.84	0.121	33.01	-12.17
		2550.0	-1.10	1 / 1	22.02	20.92	0.124	33.01	-12.09
	QPSK	2520.0	-1.10	1 / 1	22.11	21.01	0.126	33.01	-12.00
		2535.0	-1.10	1 / 214	22.19	21.09	0.129	33.01	-11.92
		2550.0	-1.10	1 / 214	22.02	20.92	0.124	33.01	-12.09
	16-QAM	2535.0	-1.10	1 / 1	21.18	20.08	0.102	33.01	-12.93
	64-QAM	2535.0	-1.10	1 / 1	20.20	19.10	0.081	33.01	-13.91
	256-QAM	2535.0	-1.10	1 / 1	17.17	16.07	0.040	33.01	-16.94

Table 7-41. Antenna 2b EIRP Data (NR Band n7)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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]	
20 MHz	π/2 BPSK	2506.0	-0.60	1 / 25	28.11	27.51	0.564	33.01	-5.50	
		2593.0	-0.60	1 / 25	27.76	27.16	0.520	33.01	-5.85	
		2680.0	-0.60	1 / 1	28.13	27.53	0.566	33.01	-5.48	
	QPSK	2506.0	-0.60	1 / 49	28.20	27.60	0.575	33.01	-5.41	
		2593.0	-0.60	1 / 25	28.17	27.57	0.571	33.01	-5.44	
		2680.0	-0.60	1 / 49	28.16	27.56	0.570	33.01	-5.45	
	16-QAM	2593.0	-0.60	1 / 25	27.19	26.59	0.456	33.01	-6.42	
		64-QAM	2593.0	-0.60	1 / 49	26.11	25.51	0.356	33.01	-7.50
			256-QAM	2680.0	-0.60	1 / 25	23.19	22.59	0.182	33.01
30 MHz	π/2 BPSK	2511.0	-0.60	1 / 39	28.18	27.58	0.573	33.01	-5.43	
		2593.0	-0.60	1 / 1	27.96	27.36	0.545	33.01	-5.65	
		2675.0	-0.60	1 / 1	28.06	27.46	0.557	33.01	-5.55	
	QPSK	2511.0	-0.60	1 / 39	28.16	27.56	0.570	33.01	-5.45	
		2593.0	-0.60	1 / 39	27.97	27.37	0.546	33.01	-5.64	
		2675.0	-0.60	1 / 1	28.20	27.60	0.575	33.01	-5.41	
	16-QAM	2675.0	-0.60	1 / 76	27.17	26.57	0.454	33.01	-6.44	
		64-QAM	2593.0	-0.60	1 / 76	26.05	25.45	0.351	33.01	-7.56
	256-QAM		2511.0	-0.60	1 / 39	23.21	22.61	0.182	33.01	-10.40
40 MHz	π/2 BPSK	2516.0	-0.60	1 / 53	28.18	27.58	0.573	33.01	-5.43	
		2593.0	-0.60	1 / 104	27.98	27.38	0.547	33.01	-5.63	
		2670.0	-0.60	1 / 1	27.78	27.18	0.522	33.01	-5.83	
	QPSK	2516.0	-0.60	1 / 53	28.12	27.52	0.565	33.01	-5.49	
		2593.0	-0.60	1 / 53	28.12	27.52	0.565	33.01	-5.49	
		2670.0	-0.60	1 / 53	28.08	27.48	0.560	33.01	-5.53	
	16-QAM	2670.0	-0.60	1 / 104	27.04	26.44	0.441	33.01	-6.57	
		64-QAM	2670.0	-0.60	1 / 53	26.17	25.57	0.361	33.01	-7.44
			256-QAM	2516.0	-0.60	1 / 53	23.16	22.56	0.180	33.01
50 MHz	π/2 BPSK	2521.0	-0.60	1 / 66	28.11	27.51	0.564	33.01	-5.50	
		2593.0	-0.60	1 / 131	28.20	27.60	0.575	33.01	-5.41	
		2665.0	-0.60	1 / 131	28.04	27.44	0.555	33.01	-5.57	
	QPSK	2521.0	-0.60	1 / 131	28.08	27.48	0.560	33.01	-5.53	
		2593.0	-0.60	1 / 1	27.94	27.34	0.542	33.01	-5.67	
		2665.0	-0.60	1 / 1	28.09	27.49	0.561	33.01	-5.52	
	16-QAM	2593.0	-0.60	1 / 1	27.15	26.55	0.452	33.01	-6.46	
		64-QAM	2665.0	-0.60	1 / 66	26.07	25.47	0.352	33.01	-7.54
	256-QAM		2521.0	-0.60	1 / 131	23.18	22.58	0.181	33.01	-10.43
60 MHz	π/2 BPSK	2526.0	-0.60	1 / 81	28.17	27.57	0.571	33.01	-5.44	
		2593.0	-0.60	1 / 1	28.18	27.58	0.573	33.01	-5.43	
		2660.0	-0.60	1 / 160	28.14	27.54	0.568	33.01	-5.47	
	QPSK	2526.0	-0.60	1 / 81	27.97	27.37	0.546	33.01	-5.64	
		2593.0	-0.60	1 / 81	27.96	27.36	0.545	33.01	-5.65	
		2660.0	-0.60	1 / 160	28.09	27.49	0.561	33.01	-5.52	
	16-QAM	2660.0	-0.60	1 / 1	27.19	26.59	0.456	33.01	-6.42	
		64-QAM	2660.0	-0.60	1 / 1	26.19	25.59	0.362	33.01	-7.42
	256-QAM		2660.0	-0.60	1 / 1	23.19	22.59	0.182	33.01	-10.42
70 MHz	π/2 BPSK	2531.0	-0.60	1 / 81	28.12	27.52	0.565	33.01	-5.49	
		2593.0	-0.60	1 / 1	28.13	27.53	0.566	33.01	-5.48	
		2655.0	-0.60	1 / 1	28.09	27.49	0.561	33.01	-5.52	
	QPSK	2531.0	-0.60	1 / 81	27.92	27.32	0.540	33.01	-5.69	
		2593.0	-0.60	1 / 81	27.91	27.31	0.538	33.01	-5.70	
		2655.0	-0.60	1 / 1	28.04	27.44	0.555	33.01	-5.57	
	16-QAM	2655.0	-0.60	1 / 1	27.14	26.54	0.451	33.01	-6.47	
		64-QAM	2655.0	-0.60	1 / 1	26.14	25.54	0.358	33.01	-7.47
	256-QAM		2531.0	-0.60	1 / 81	22.94	22.34	0.171	33.01	-10.67
80 MHz	π/2 BPSK	2536.0	-0.60	1 / 108	28.14	27.54	0.568	33.01	-5.47	
		2593.0	-0.60	1 / 108	28.20	27.60	0.575	33.01	-5.41	
		2650.0	-0.60	1 / 215	28.20	27.60	0.575	33.01	-5.41	
	QPSK	2536.0	-0.60	1 / 215	27.76	27.16	0.520	33.01	-5.85	
		2593.0	-0.60	1 / 1	27.96	27.36	0.545	33.01	-5.65	
		2650.0	-0.60	1 / 108	27.96	27.36	0.545	33.01	-5.65	
	16-QAM	2593.0	-0.60	1 / 215	27.17	26.57	0.454	33.01	-6.44	
		64-QAM	2536.0	-0.60	1 / 215	26.18	25.58	0.361	33.01	-7.43
	256-QAM		2536.0	-0.60	1 / 108	23.19	22.59	0.182	33.01	-10.42
90 MHz	π/2 BPSK	2541.0	-0.60	1 / 243	28.20	27.60	0.575	33.01	-5.41	
		2593.0	-0.60	1 / 122	28.10	27.50	0.562	33.01	-5.51	
		2645.0	-0.60	1 / 243	28.13	27.53	0.566	33.01	-5.48	
	QPSK	2541.0	-0.60	1 / 122	28.16	27.56	0.570	33.01	-5.45	
		2593.0	-0.60	1 / 122	27.98	27.38	0.547	33.01	-5.63	
		2645.0	-0.60	1 / 122	28.07	27.47	0.558	33.01	-5.54	
	16-QAM	2593.0	-0.60	1 / 1	27.19	26.59	0.456	33.01	-6.42	
		64-QAM	2645.0	-0.60	1 / 1	26.15	25.55	0.359	33.01	-7.46
	256-QAM		2593.0	-0.60	1 / 122	23.14	22.54	0.179	33.01	-10.47
100 MHz	π/2 BPSK	2546.0	-0.60	1 / 1	28.03	27.43	0.553	33.01	-5.58	
		2593.0	-0.60	1 / 1	28.03	27.43	0.553	33.01	-5.58	
		2640.0	-0.60	1 / 136	28.10	27.50	0.562	33.01	-5.51	
	QPSK	2546.0	-0.60	1 / 271	28.11	27.51	0.564	33.01	-5.50	
		2593.0	-0.60	1 / 136	27.99	27.39	0.548	33.01	-5.62	
		2640.0	-0.60	1 / 1	28.20	27.60	0.575	33.01	-5.41	
	16-QAM	2593.0	-0.60	1 / 271	27.27	26.67	0.465	33.01	-6.34	
		64-QAM	2546.0	-0.60	1 / 136	26.29	25.69	0.371	33.01	-7.32
	256-QAM		2640.0	-0.60	1 / 1	23.19	22.59	0.182	33.01	-10.42

Table 7-42. Antenna 2b EIRP Data (NR Band n41 PC2)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device		Page 217 of 278

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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]
20 MHz	π/2 BPSK	2506.0	-0.60	1 / 49	25.45	24.85	0.305	33.01	-8.16
		2593.0	-0.60	1 / 25	25.47	24.87	0.307	33.01	-8.14
		2680.0	-0.60	1 / 49	25.52	24.92	0.310	33.01	-8.09
	QPSK	2506.0	-0.60	1 / 1	25.55	24.95	0.313	33.01	-8.06
		2593.0	-0.60	1 / 25	25.59	24.99	0.316	33.01	-8.02
		2680.0	-0.60	1 / 25	25.67	25.07	0.321	33.01	-7.94
		2593.0	-0.60	1 / 25	24.75	24.15	0.260	33.01	-8.86
	64-QAM	2593.0	-0.60	1 / 49	23.72	23.12	0.205	33.01	-9.89
	256-QAM	2680.0	-0.60	1 / 49	20.70	20.10	0.102	33.01	-12.91
30 MHz	π/2 BPSK	2511.0	-0.60	1 / 76	25.62	25.02	0.318	33.01	-7.99
		2593.0	-0.60	1 / 76	25.51	24.91	0.310	33.01	-8.10
		2675.0	-0.60	1 / 39	25.67	25.07	0.321	33.01	-7.94
	QPSK	2511.0	-0.60	1 / 1	25.62	25.02	0.318	33.01	-7.99
		2593.0	-0.60	1 / 76	25.61	25.01	0.317	33.01	-8.00
		2675.0	-0.60	1 / 39	25.69	25.09	0.323	33.01	-7.92
		2511.0	-0.60	1 / 1	24.65	24.05	0.254	33.01	-8.96
	64-QAM	2675.0	-0.60	1 / 76	23.37	22.77	0.189	33.01	-10.24
	256-QAM	2511.0	-0.60	1 / 39	20.71	20.11	0.103	33.01	-12.90
40 MHz	π/2 BPSK	2516.0	-0.60	1 / 1	25.42	24.82	0.303	33.01	-8.19
		2593.0	-0.60	1 / 1	25.70	25.10	0.324	33.01	-7.91
		2670.0	-0.60	1 / 53	25.67	25.07	0.321	33.01	-7.94
	QPSK	2516.0	-0.60	1 / 53	25.61	25.01	0.317	33.01	-8.00
		2593.0	-0.60	1 / 104	25.50	24.90	0.309	33.01	-8.11
		2670.0	-0.60	1 / 53	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 104	24.70	24.10	0.257	33.01	-8.91
	64-QAM	2593.0	-0.60	1 / 1	23.65	23.05	0.202	33.01	-9.96
	256-QAM	2670.0	-0.60	1 / 53	20.55	19.95	0.099	33.01	-13.06
50 MHz	π/2 BPSK	2521.0	-0.60	1 / 1	25.68	25.08	0.322	33.01	-7.93
		2593.0	-0.60	1 / 1	25.41	24.81	0.303	33.01	-8.20
		2665.0	-0.60	1 / 131	25.56	24.96	0.313	33.01	-8.05
	QPSK	2521.0	-0.60	1 / 1	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 131	25.63	25.03	0.318	33.01	-7.98
		2665.0	-0.60	1 / 66	25.50	24.90	0.309	33.01	-8.11
		2593.0	-0.60	1 / 1	24.68	24.08	0.256	33.01	-8.93
	64-QAM	2521.0	-0.60	1 / 131	23.68	23.08	0.203	33.01	-9.93
	256-QAM	2665.0	-0.60	1 / 1	20.66	20.06	0.101	33.01	-12.95
60 MHz	π/2 BPSK	2526.0	-0.60	1 / 81	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 160	25.57	24.97	0.314	33.01	-8.04
		2660.0	-0.60	1 / 160	25.52	24.92	0.310	33.01	-8.09
	QPSK	2526.0	-0.60	1 / 1	25.68	25.08	0.322	33.01	-7.93
		2593.0	-0.60	1 / 1	25.45	24.85	0.305	33.01	-8.16
		2660.0	-0.60	1 / 160	25.51	24.91	0.310	33.01	-8.10
		2660.0	-0.60	1 / 160	24.68	24.08	0.256	33.01	-8.93
	64-QAM	2526.0	-0.60	1 / 160	23.70	23.10	0.204	33.01	-9.91
	256-QAM	2660.0	-0.60	1 / 1	20.66	20.06	0.101	33.01	-12.95
70 MHz	π/2 BPSK	2531.0	-0.60	1 / 1	25.56	24.96	0.313	33.01	-8.05
		2593.0	-0.60	1 / 1	25.57	24.97	0.314	33.01	-8.04
		2655.0	-0.60	1 / 90	25.44	24.84	0.305	33.01	-8.17
	QPSK	2531.0	-0.60	1 / 90	25.65	25.05	0.320	33.01	-7.96
		2593.0	-0.60	1 / 1	25.36	24.76	0.299	33.01	-8.25
		2655.0	-0.60	1 / 90	25.69	25.09	0.323	33.01	-7.92
		2531.0	-0.60	180 / 0	24.71	24.11	0.258	33.01	-8.90
	64-QAM	2593.0	-0.60	1 / 1	23.58	22.98	0.199	33.01	-10.03
	256-QAM	2531.0	-0.60	1 / 187	20.80	20.20	0.105	33.01	-12.81
80 MHz	π/2 BPSK	2536.0	-0.60	1 / 215	25.53	24.93	0.311	33.01	-8.08
		2593.0	-0.60	1 / 215	25.46	24.86	0.306	33.01	-8.15
		2650.0	-0.60	1 / 108	25.55	24.95	0.313	33.01	-8.06
	QPSK	2536.0	-0.60	1 / 108	25.61	25.01	0.317	33.01	-8.00
		2593.0	-0.60	1 / 1	25.57	24.97	0.314	33.01	-8.04
		2650.0	-0.60	1 / 215	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 215	24.62	24.02	0.252	33.01	-8.99
	64-QAM	2650.0	-0.60	1 / 215	23.71	23.11	0.205	33.01	-9.90
	256-QAM	2536.0	-0.60	1 / 1	20.71	20.11	0.103	33.01	-12.90
90 MHz	π/2 BPSK	2541.0	-0.60	1 / 122	25.56	24.96	0.313	33.01	-8.05
		2593.0	-0.60	1 / 243	25.50	24.90	0.309	33.01	-8.11
		2645.0	-0.60	1 / 1	25.64	25.04	0.319	33.01	-7.97
	QPSK	2541.0	-0.60	1 / 122	25.69	25.09	0.323	33.01	-7.92
		2593.0	-0.60	1 / 122	25.65	25.05	0.320	33.01	-7.96
		2645.0	-0.60	1 / 1	25.53	24.93	0.311	33.01	-8.08
		2645.0	-0.60	1 / 122	24.63	24.03	0.253	33.01	-8.98
	64-QAM	2593.0	-0.60	1 / 243	23.63	23.03	0.201	33.01	-9.98
	256-QAM	2593.0	-0.60	1 / 1	20.66	20.06	0.101	33.01	-12.95
100 MHz	π/2 BPSK	2546.0	-0.60	1 / 1	25.59	24.99	0.316	33.01	-8.02
		2593.0	-0.60	1 / 271	25.38	24.78	0.301	33.01	-8.23
		2640.0	-0.60	1 / 136	25.66	25.06	0.321	33.01	-7.95
	QPSK	2546.0	-0.60	1 / 136	25.70	25.10	0.324	33.01	-7.91
		2593.0	-0.60	1 / 271	25.53	24.93	0.311	33.01	-8.08
		2640.0	-0.60	1 / 1	25.69	25.09	0.323	33.01	-7.92
		2593.0	-0.60	1 / 271	24.70	24.10	0.257	33.01	-8.91
	64-QAM	2546.0	-0.60	1 / 136	23.73	23.13	0.206	33.01	-9.88
	256-QAM	2640.0	-0.60	1 / 271	20.69	20.09	0.102	33.01	-12.92

Table 7-43. Antenna 2b EIRP Data (NR Band n41 PC3)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device		Page 218 of 278

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ULCA - 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	22.15	-1.10	21.05	0.127	33.01	-11.96
				21100	2535.0	1	99		21298	2554.8	1	0	21.75	-1.10	20.65	0.116	33.01	-12.36
				21350	2560.0	1	0		21152	2540.2	1	99	21.72	-1.10	20.62	0.115	33.01	-12.39
				20850	2510	100	0		21048	2529.8	100	0	21.24	-1.10	20.14	0.103	33.01	-12.87
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	19.94	-1.10	18.84	0.077	33.01	-14.17
				20850	2510	100	0	64-QAM	21048	2529.8	100	0	19.1	-1.10	18.00	0.063	33.01	-15.01
				20850	2510	100	0	256-QAM	21048	2529.8	100	0	15.61	-1.10	14.51	0.028	33.01	-18.50
				20850	2510	100	0	256-QAM	21048	2529.8	100	0	15.61	-1.10	14.51	0.028	33.01	-18.50

Table 7-44. Antenna 2b EIRP Data (ULCA LTE Band 7)

ULCA - 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	28.20	-0.60	27.60	0.575	33.01	-5.41
				39790	2510.0	1	99		39988	2529.8	1	0	28.14	-0.60	27.54	0.568	33.01	-5.47
				40620	2593.0	1	99		40818	2612.8	1	0	28.14	-0.60	27.54	0.568	33.01	-5.47
				41490	2680.0	1	0		41292	2660.2	1	99	27.90	-0.60	27.30	0.537	33.01	-5.71
				39750	2506	100	0		39948	2525.8	100	0	26.61	-0.60	26.01	0.399	33.01	-7.00
			16-QAM	39750	2506	100	0	16-QAM	39948	2525.8	100	0	26.20	-0.60	25.60	0.363	33.01	-7.41
			64-QAM	39750	2506	100	0	64-QAM	39948	2525.8	100	0	24.83	-0.60	24.23	0.295	33.01	-8.78
			256-QAM	39750	2506	100	0	256-QAM	39948	2525.8	100	0	21.65	-0.60	21.05	0.127	33.01	-11.96

Table 7-45. Antenna 2b EIRP Data (ULCA LTE Band 41 (PC2))

ULCA - 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	25.38	-0.60	24.78	0.301	33.01	-8.23
				39790	2510.0	1	99		39988	2529.8	1	0	25.67	-0.60	25.07	0.321	33.01	-7.94
				40620	2593.0	1	99		40818	2612.8	1	0	25.64	-0.60	25.04	0.319	33.01	-7.97
				41490	2680.0	1	0		41292	2660.2	1	99	25.59	-0.60	24.99	0.316	33.01	-8.02
			QPSK	39790	2510	100	0	QPSK	39988	2529.8	100	0	23.73	-0.60	23.13	0.206	33.01	-9.88
			16-QAM	39790	2510	100	0	16-QAM	39988	2529.8	100	0	22.93	-0.60	22.33	0.171	33.01	-10.68
			64-QAM	39790	2510	100	0	64-QAM	39988	2529.8	100	0	21.82	-0.60	21.22	0.132	33.01	-11.79
			256-QAM	39790	2510	100	0	256-QAM	39988	2529.8	100	0	19.31	-0.60	18.71	0.074	33.01	-14.30

Table 7-46. Antenna 2b EIRP Data (ULCA LTE Band 41 (PC3))

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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.

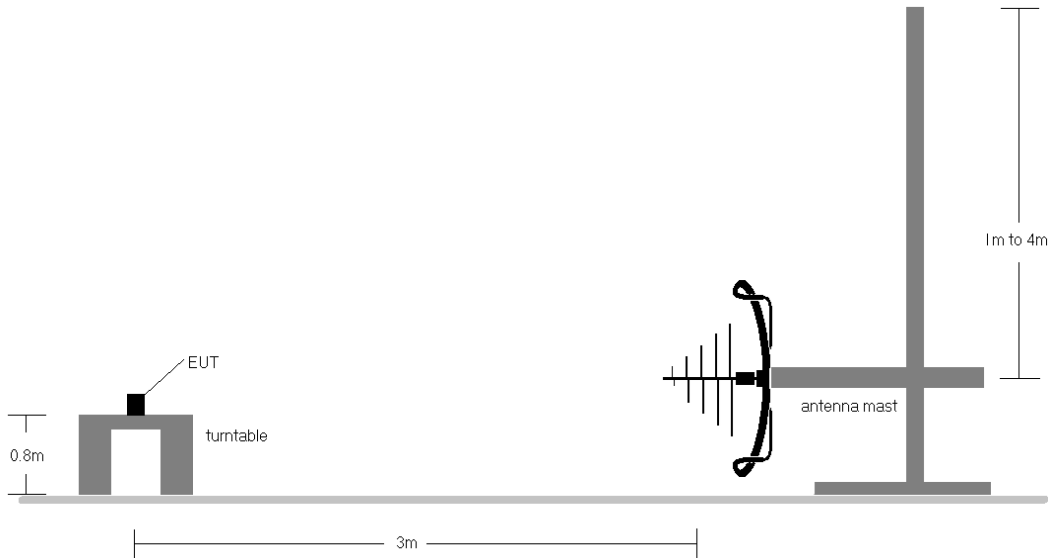


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

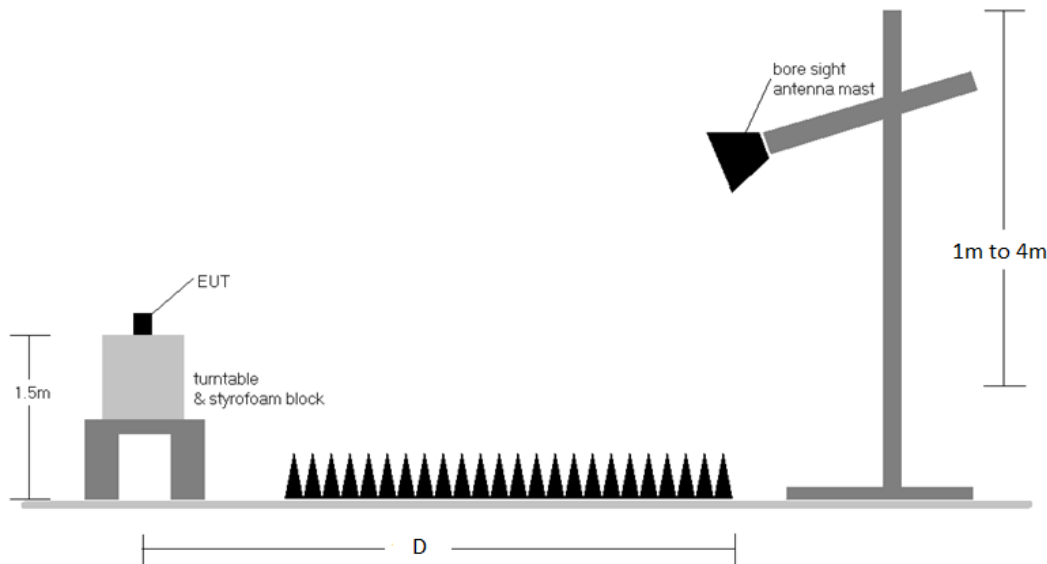


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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 checked and was found to not to be the worst case.
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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7.7.1 Antenna 4b Radiated Spurious Emission Measurements

LTE Band 30

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-77.43	4.15	33.72	-61.54	-40.00	-21.54
6922.5	H	-	-	-79.51	8.46	35.95	-59.31	-40.00	-19.31
9230.0	H	-	-	-82.11	11.42	36.31	-58.95	-40.00	-18.95

Table 7-47. 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	-	-	-71.47	3.96	39.49	-55.76	-40.00	-15.76
6930.0	H	-	-	-73.44	8.37	41.93	-53.33	-40.00	-13.33
9240.0	H	-	-	-76.46	11.33	41.87	-53.39	-40.00	-13.39

Table 7-48. Radiated Spurious Data (LTE Band 30 – Mid Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	-	-	-77.52	3.92	33.40	-61.86	-40.00	-21.86
6937.50	H	-	-	-79.52	8.30	35.78	-59.48	-40.00	-19.48
9250.00	H	-	-	-82.06	11.27	36.21	-59.05	-40.00	-19.05

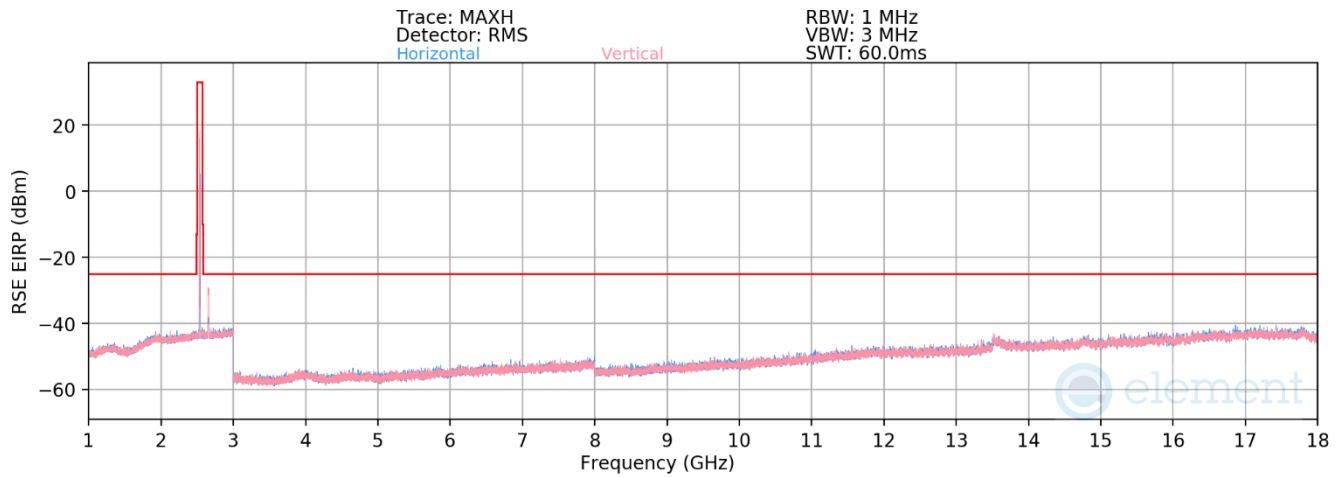
Table 7-49. Radiated Spurious Data (LTE Band 30 – High Channel)

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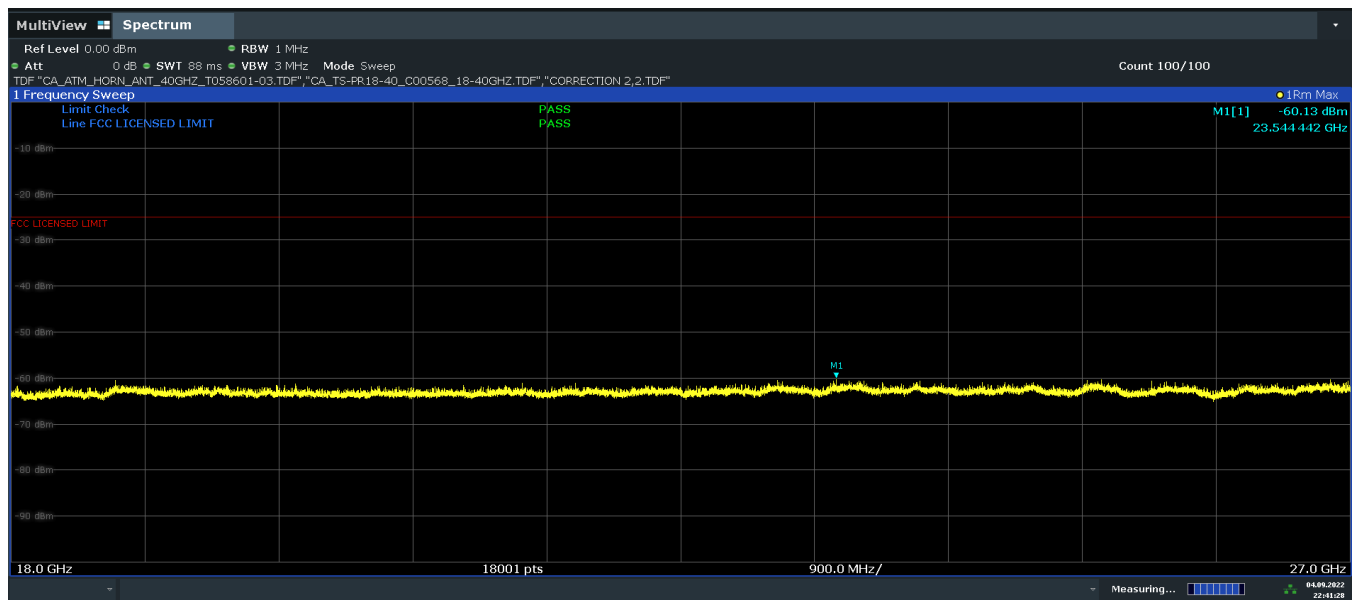
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LTE Band 7



Plot 7-305. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (LTE Band 7)

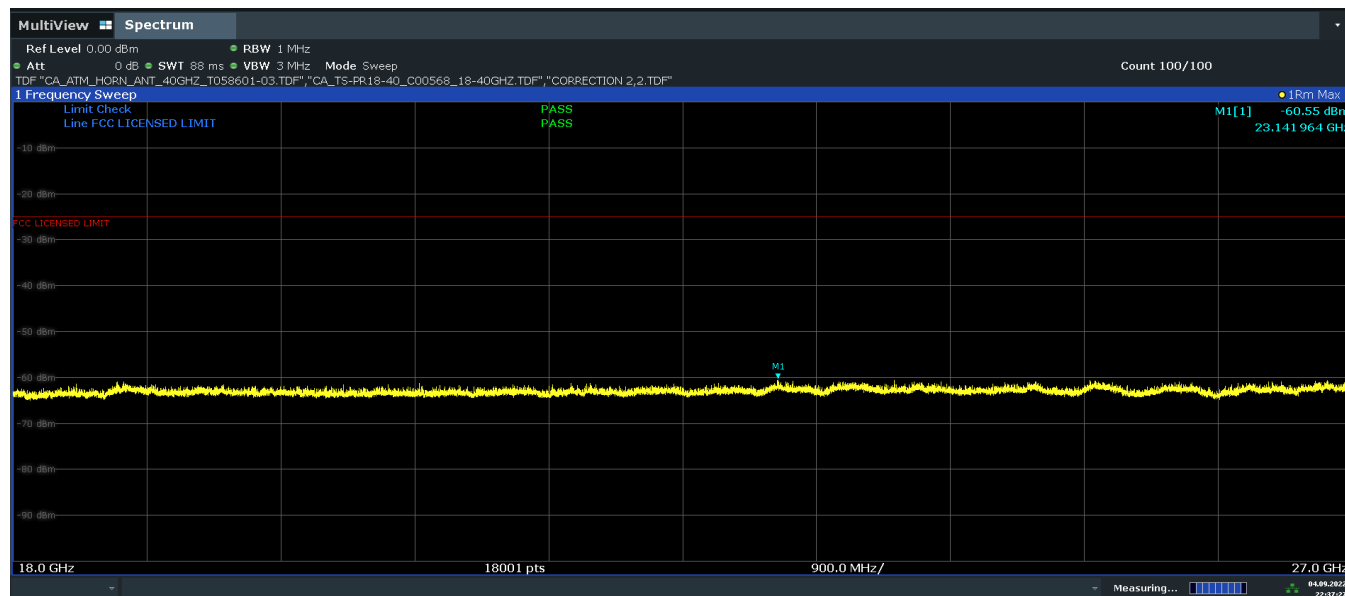


Plot 7-306. Antenna 4b Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. H)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-307. Antenna 4b Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. V)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical 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	V	-	-	-77.11	3.94	33.83	-61.43	-25.00	-36.43
7530.0	V	-	-	-79.90	8.95	36.05	-59.21	-25.00	-34.21
10040.0	V	-	-	-82.44	13.28	37.84	-57.42	-25.00	-32.42

Table 7-50. Radiated Spurious Data (LTE Band 7 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-77.33	3.99	33.66	-61.59	-25.00	-36.59
7605.0	V	-	-	-79.67	9.07	36.40	-58.85	-25.00	-33.85
10140.0	V	-	-	-82.51	13.37	37.86	-57.40	-25.00	-32.40

Table 7-51. Radiated Spurious Data (LTE Band 7 – Mid Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	-	-	-77.70	4.41	33.71	-61.54	-25.00	-36.54
7680.00	V	-	-	-79.68	9.02	36.34	-58.92	-25.00	-33.92
10240.00	V	-	-	-82.81	14.22	38.41	-56.85	-25.00	-31.85

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

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LTE Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-77.21	3.85	33.64	-61.62	-25.00	-36.62
7518.0	V	-	-	-79.53	8.79	36.26	-59.00	-25.00	-34.00
10024.0	V	-	-	-82.38	13.28	37.90	-57.35	-25.00	-32.35

Table 7-53. 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	-	-	-77.80	5.23	34.43	-60.83	-25.00	-35.83
7779.0	V	-	-	-79.49	8.83	36.34	-58.91	-25.00	-33.91
10372.0	V	-	-	-82.23	13.56	38.33	-56.92	-25.00	-31.92

Table 7-54. 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	-	-	-77.68	5.18	34.50	-60.76	-25.00	-35.76
8040.0	V	-	-	-80.54	9.49	35.95	-59.31	-25.00	-34.31
10720.0	V	-	-	-82.88	14.45	38.57	-56.69	-25.00	-31.69

Table 7-55. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	263	117	-78.08	3.85	32.77	-62.49	-40.00	-22.49
6922.5	V	271	167	-77.52	8.56	38.04	-57.22	-40.00	-17.22
9230.0	V	-	-	-80.71	9.08	35.37	-59.89	-40.00	-19.89
11537.5	V	-	-	-80.88	11.45	37.57	-57.69	-40.00	-17.69
13845.0	V	-	-	-81.56	13.63	39.07	-56.19	-40.00	-16.19

Table 7-56. Radiated Spurious Data (NR Band n30 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	298	111	-78.12	3.85	32.73	-62.52	-40.00	-22.52
6930.0	V	264	170	-78.52	8.47	36.95	-58.31	-40.00	-18.31
9240.0	V	-	-	-80.46	9.16	35.70	-59.56	-40.00	-19.56
11550.0	V	-	-	-80.77	11.40	37.63	-57.63	-40.00	-17.63
13860.0	V	-	-	-81.80	13.56	38.76	-56.49	-40.00	-16.49

Table 7-57. Radiated Spurious Data (NR Band n30 – Mid Channel)

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

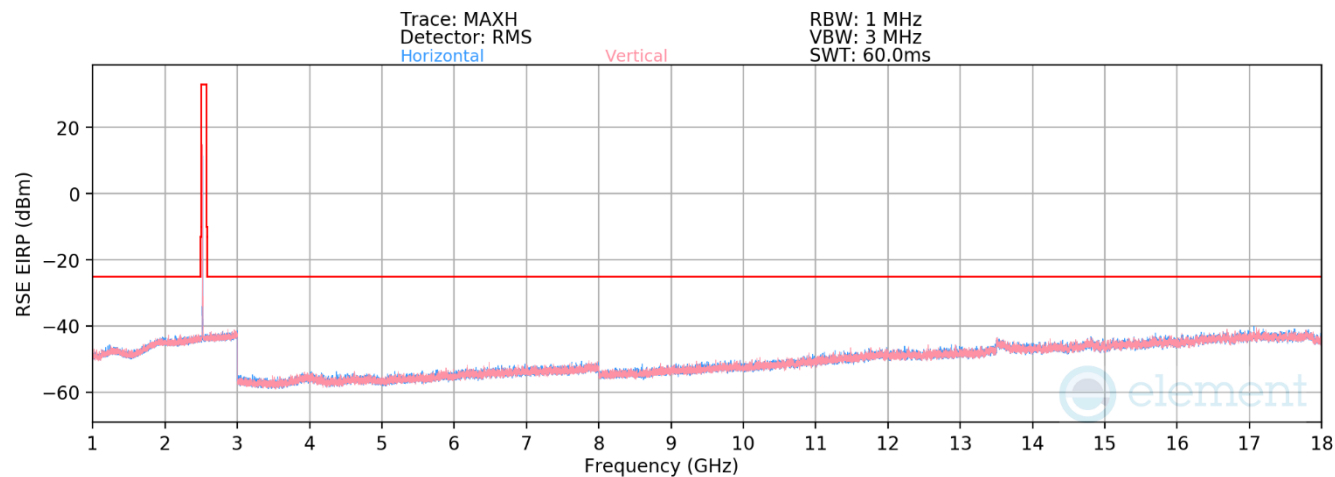
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-78.60	3.91	32.31	-62.95	-40.00	-22.95
6937.5	V	291	166	-77.82	8.38	37.56	-57.70	-40.00	-17.70
9250.0	V	-	-	-80.76	9.14	35.38	-59.88	-40.00	-19.88
11562.5	V	-	-	-80.78	11.33	37.55	-57.71	-40.00	-17.71
13875.0	V	-	-	-81.65	13.41	38.76	-56.49	-40.00	-16.49

Table 7-58. Radiated Spurious Data (NR Band n30 – High Channel)

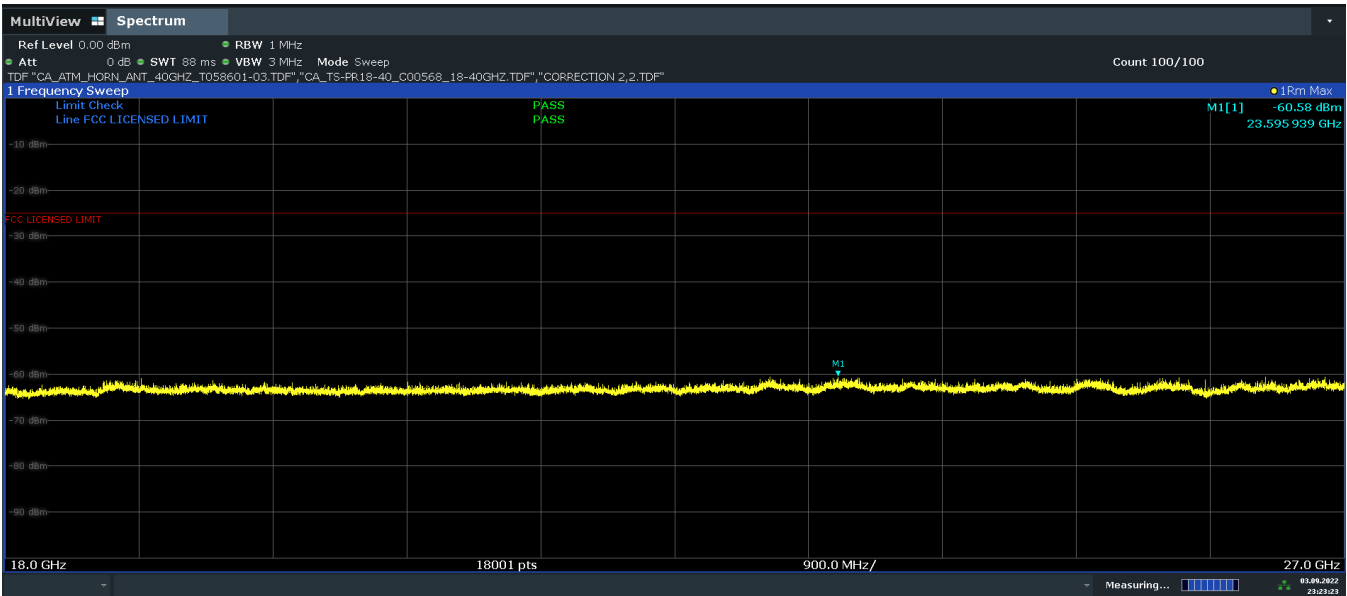
FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7



Plot 7-308. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (NR Band n7)



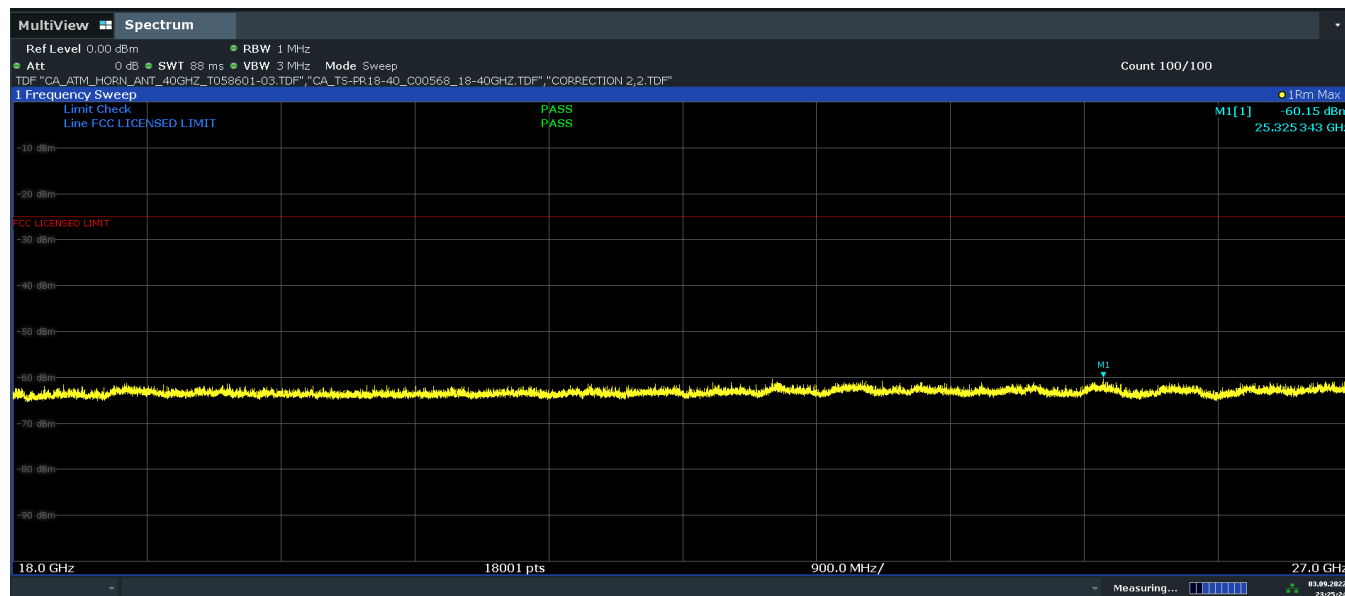
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Plot 7-309. Antenna 4b Radiated Spurious Emission above 18GHz (NR Band n7, Pol. H)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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23/25/23 03.09.2022

Plot 7-310. Antenna 4b Radiated Spurious Emission above 18GHz (NR Band n7, Pol. V)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	2520.0
RB / Offset:	1 / 108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	V	-	-	-77.49	3.89	33.40	-61.86	-25.00	-36.86
7560.0	V	236	169	-79.63	8.93	36.30	-58.96	-25.00	-33.96
10080.0	V	-	-	-82.26	13.17	37.91	-57.35	-25.00	-32.35
12600.0	V	-	-	-83.51	17.97	41.46	-53.80	-25.00	-28.80
15120.0	V	-	-	-83.48	20.67	44.19	-51.07	-25.00	-26.07

Table 7-59. Radiated Spurious Data (NR Band n7 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	V	-	-	-77.31	3.99	33.68	-61.57	-25.00	-36.57
7605.0	V	-	-	-79.79	9.07	36.28	-58.97	-25.00	-33.97
10140.0	V	-	-	-82.58	13.37	37.79	-57.47	-25.00	-32.47

Table 7-60. Radiated Spurious Data (NR Band n7 – Mid Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	V	-	-	-77.38	4.23	33.85	-61.41	-25.00	-36.41
7650.0	V	-	-	-79.89	8.86	35.97	-59.29	-25.00	-34.29
10200.0	V	-	-	-82.77	13.78	38.01	-57.25	-25.00	-32.25

Table 7-61. Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	H	-	-	-77.29	4.18	33.89	-61.36	-25.00	-36.36
7638.0	H	-	-	-79.52	8.94	36.42	-58.83	-25.00	-33.83
10184.0	H	-	-	-82.50	13.87	38.37	-56.89	-25.00	-31.89

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	H	-	-	-77.76	5.23	34.47	-60.79	-25.00	-35.79
7779.0	H	-	-	-79.25	8.83	36.58	-58.67	-25.00	-33.67
10372.0	H	-	-	-82.29	13.56	38.27	-56.98	-25.00	-31.98

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	H	-	-	-77.36	4.57	34.21	-61.04	-25.00	-36.04
7920.0	H	-	-	-80.34	9.95	36.61	-58.65	-25.00	-33.65
10560.0	H	-	-	-82.66	14.15	38.49	-56.77	-25.00	-31.77

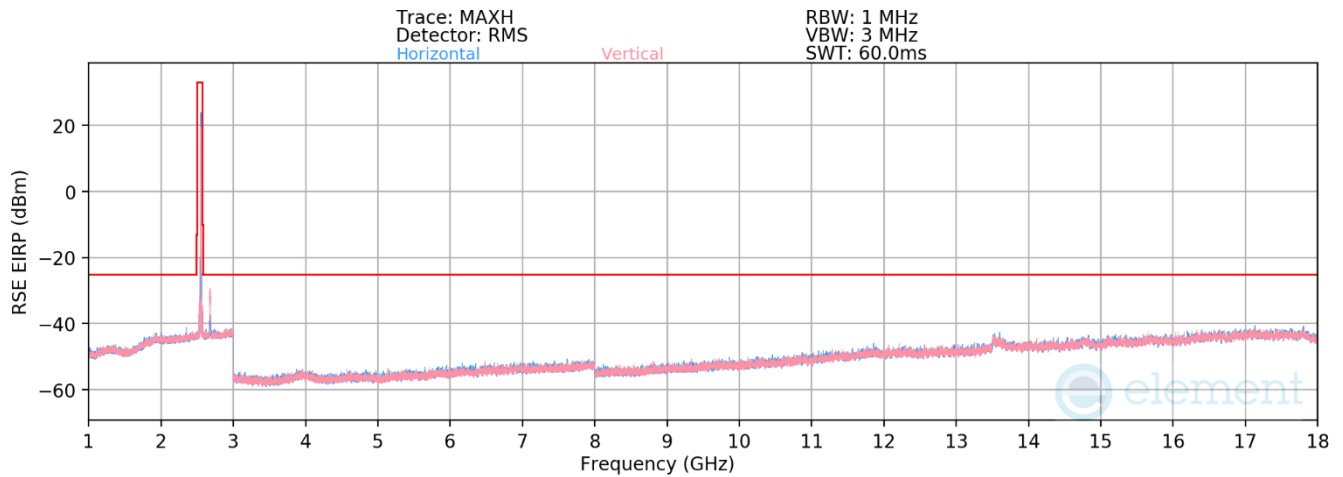
Table 7-64. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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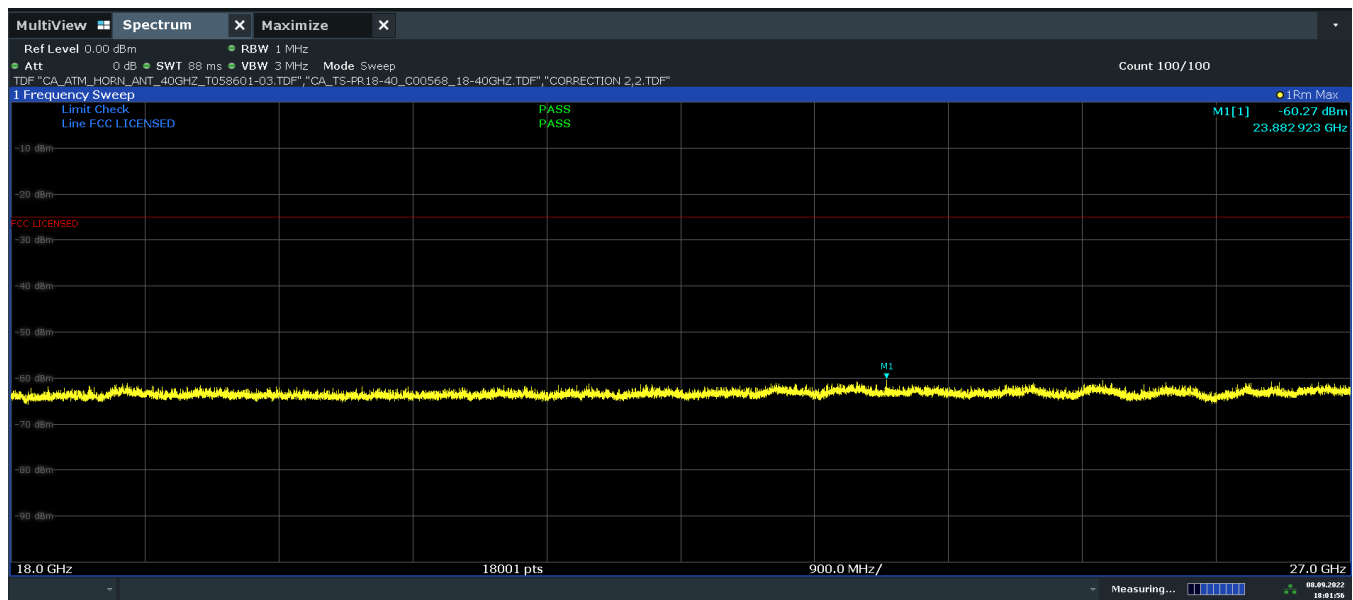
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ULCA - LTE B7



Plot 7-311. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (ULCA LTE B7)

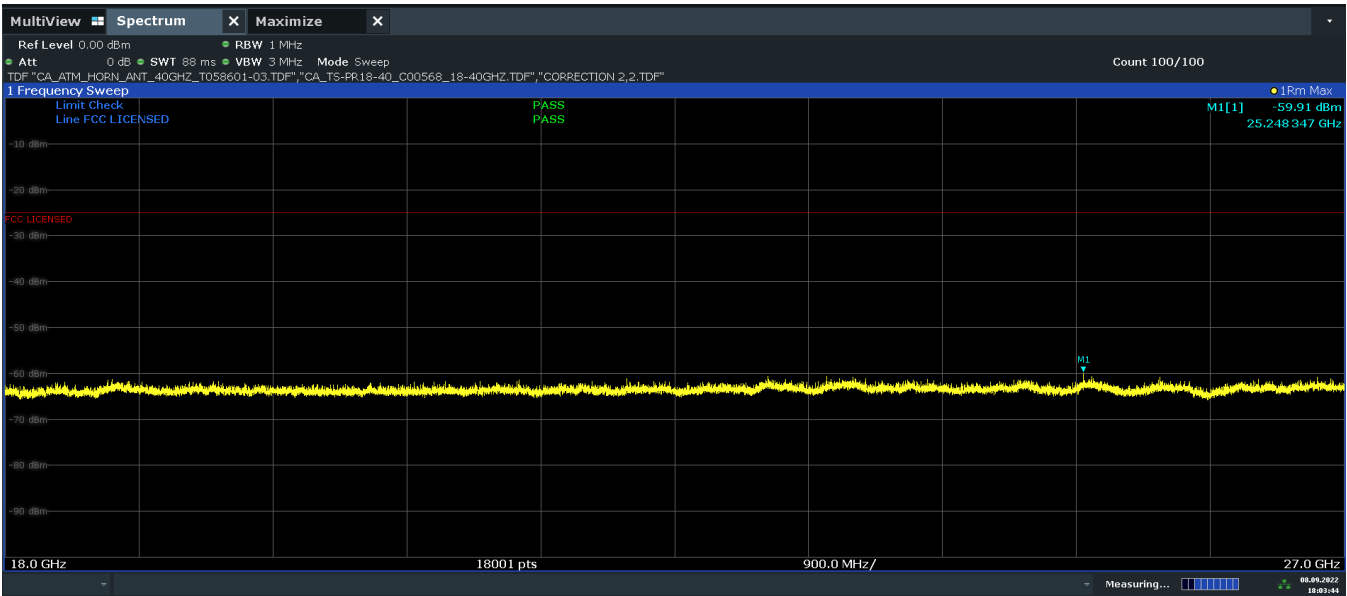


Plot 7-312. Antenna 4b Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. H)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 233 of 278

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10/03/45 08.09.2022

Plot 7-313. Antenna 4b Radiated Spurious Emission above 18GHz (ULCA LTE B7, Pol. V)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 234 of 278

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	-	-	-	-77.66	3.94	33.28	-61.98	-25.00	-36.98
7530.0	-	-	-	-80.08	8.95	35.87	-59.39	-25.00	-34.39
10040.0	-	-	-	-82.68	13.28	37.60	-57.66	-25.00	-32.66

Table 7-65. Radiated Spurious Data (ULCA LTE B7 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	-	-	-	-77.75	3.99	33.24	-62.01	-25.00	-37.01
7605.0	-	-	-	-79.75	9.07	36.32	-58.93	-25.00	-33.93
10140.0	-	-	-	-82.70	13.37	37.67	-57.59	-25.00	-32.59

Table 7-66. Radiated Spurious Data (ULCA LTE B7 – Mid Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	-	-	-	-77.78	4.41	33.63	-61.62	-25.00	-36.62
7680.0	-	-	-	-79.79	9.02	36.23	-59.03	-25.00	-34.03
10240.0	-	-	-	-82.85	14.22	38.37	-56.89	-25.00	-31.89

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE B41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-77.55	3.85	33.30	-61.96	-25.00	-36.96
7518.0	V	-	-	-79.86	8.79	35.93	-59.33	-25.00	-34.33
10024.0	V	-	-	-82.64	13.28	37.64	-57.61	-25.00	-32.61

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	V	-	-	-77.58	3.94	33.36	-61.90	-25.00	-36.90
7530.0	V	-	-	-79.93	8.95	36.02	-59.24	-25.00	-34.24
10040.0	V	-	-	-82.59	13.28	37.69	-57.57	-25.00	-32.57

Table 7-69. Radiated Spurious Data (ULCA LTE B41 – Mid Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-77.95	5.23	34.28	-60.98	-25.00	-35.98
7779.0	V	-	-	-79.93	8.83	35.90	-59.35	-25.00	-34.35
10372.0	V	-	-	-82.61	13.56	37.95	-57.30	-25.00	-32.30

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 236 of 278

7.7.2 Antenna 1 Radiated Spurious Emission Measurements

LTE Band 30

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	233	191	-76.25	4.15	34.90	-60.36	-40.00	-20.36
6922.5	H	-	-	-79.39	8.46	36.07	-59.19	-40.00	-19.19
9230.0	H	-	-	-81.64	11.42	36.78	-58.48	-40.00	-18.48
11537.5	H	-	-	-83.06	16.42	40.36	-54.90	-40.00	-14.90

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	225	207	-77.09	3.96	33.87	-61.38	-40.00	-21.38
6930.0	H	-	-	-79.09	8.37	36.28	-58.98	-40.00	-18.98
9240.0	H	-	-	-81.80	11.33	36.53	-58.73	-40.00	-18.73
11550.0	H	-	-	-82.97	16.92	40.95	-54.30	-40.00	-14.30

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	-	-	-77.28	3.92	33.64	-61.62	-40.00	-21.62
6937.50	H	-	-	-79.00	8.30	36.30	-58.96	-40.00	-18.96
9250.00	H	-	-	-81.49	11.27	36.78	-58.48	-40.00	-18.48

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-77.46	3.94	33.48	-61.78	-25.00	-36.78
7530.0	H	-	-	-79.66	8.95	36.29	-58.97	-25.00	-33.97
10040.0	H	-	-	-82.47	13.28	37.81	-57.45	-25.00	-32.45

Table 7-74. Radiated Spurious Data (LTE Band 7 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.47	3.99	33.52	-61.73	-25.00	-36.73
7605.0	H	-	-	-79.56	9.07	36.51	-58.74	-25.00	-33.74
10140.0	H	-	-	-82.25	13.37	38.12	-57.14	-25.00	-32.14

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

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

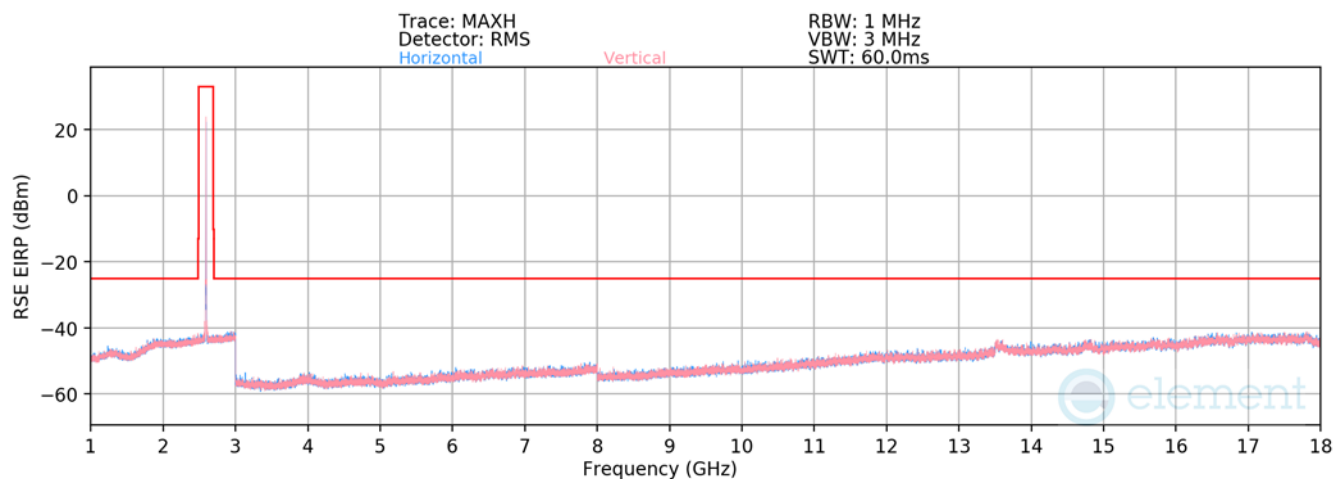
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-77.51	4.41	33.90	-61.35	-25.00	-36.35
7680.00	H	-	-	-79.65	9.02	36.37	-58.89	-25.00	-33.89
10240.00	H	-	-	-82.76	14.22	38.46	-56.80	-25.00	-31.80

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

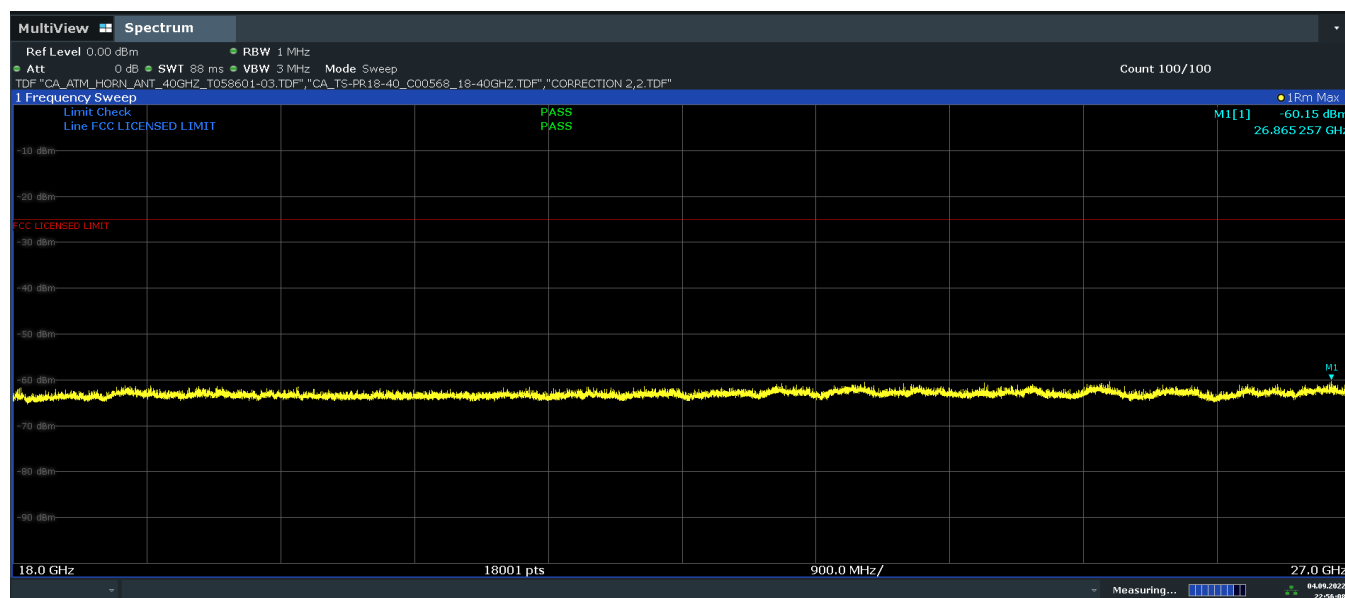
FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41



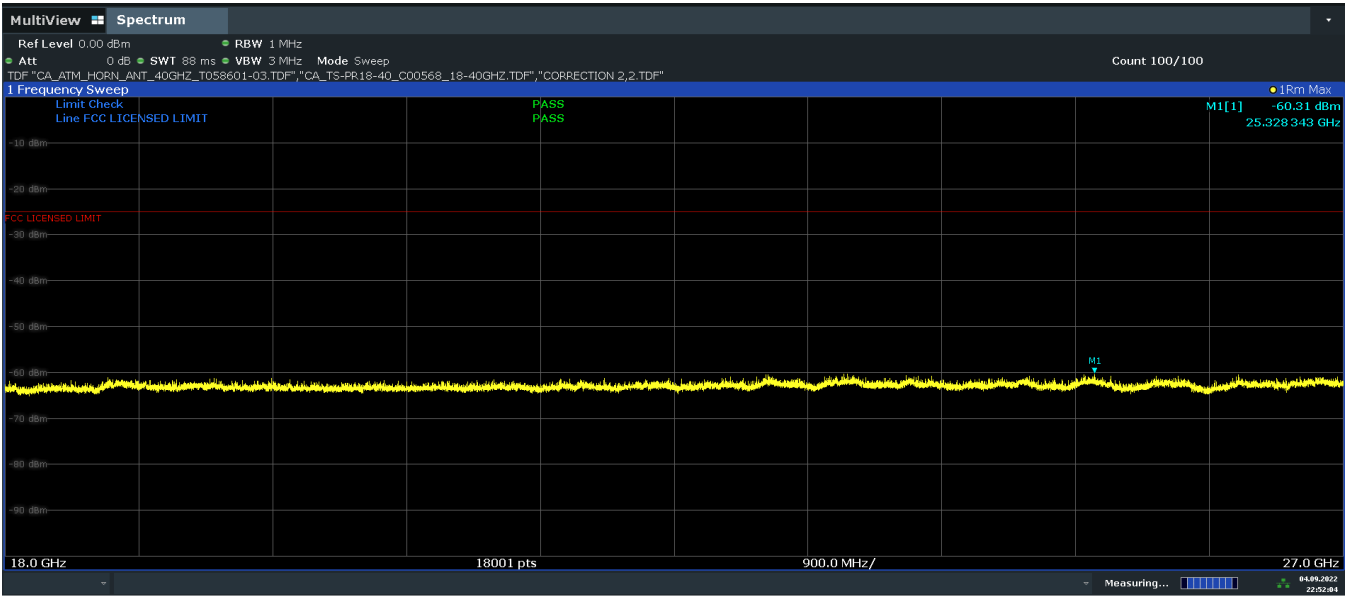
Plot 7-314. Antenna 1 Radiated Spurious Plot 1GHz – 18GHz (LTE Band 7)



Plot 7-315. Antenna 1 Radiated Spurious Emission above 18GHz (LTE B41, Pol. H)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-316. Antenna 1 Radiated Spurious Emission above 18GHz (LTE B41, Pol. V)

FCC ID: BCGA2764	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-76.98	3.85	33.87	-61.39	-25.00	-36.39
7518.0	H	-	-	-79.65	8.79	36.14	-59.12	-25.00	-34.12
10024.0	H	-	-	-82.41	13.28	37.87	-57.38	-25.00	-32.38

Table 7-77. Radiated Spurious Data (LTE Band 41 – Low Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.40	5.23	34.83	-60.43	-25.00	-35.43
7779.0	H	-	-	-79.44	8.83	36.39	-58.86	-25.00	-33.86
10372.0	H	-	-	-82.13	13.56	38.43	-56.82	-25.00	-31.82

Table 7-78. Radiated Spurious Data (LTE Band 41 – Mid Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-76.30	5.18	35.88	-59.38	-25.00	-34.38
8040.0	H	-	-	-80.60	9.49	35.89	-59.37	-25.00	-34.37
10720.0	H	-	-	-82.87	14.45	38.58	-56.68	-25.00	-31.68

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

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-78.63	3.85	32.22	-63.04	-40.00	-23.04
6922.5	V	-	-	-79.78	8.56	35.78	-59.48	-40.00	-19.48
9230.0	V	-	-	-80.65	9.08	35.43	-59.83	-40.00	-19.83

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	V	-	-	-78.70	3.85	32.15	-63.10	-40.00	-23.10
6930.0	V	-	-	-79.91	8.47	35.56	-59.70	-40.00	-19.70
9240.0	V	-	-	-80.85	9.16	35.31	-59.95	-40.00	-19.95

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	V	-	-	-78.63	3.91	32.28	-62.98	-40.00	-22.98
6937.5	V	-	-	-79.46	8.38	35.92	-59.34	-40.00	-19.34
9250.0	V	-	-	-80.60	9.14	35.54	-59.72	-40.00	-19.72

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	H	-	-	-77.63	3.89	33.26	-62.00	-25.00	-37.00
7560.0	H	-	-	-79.81	8.93	36.12	-59.14	-25.00	-34.14
10080.0	H	-	-	-82.16	13.17	38.01	-57.25	-25.00	-32.25

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.74	3.99	33.25	-62.00	-25.00	-37.00
7605.0	H	-	-	-79.97	9.07	36.10	-59.15	-25.00	-34.15
10140.0	H	-	-	-82.15	13.37	38.22	-57.04	-25.00	-32.04

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

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

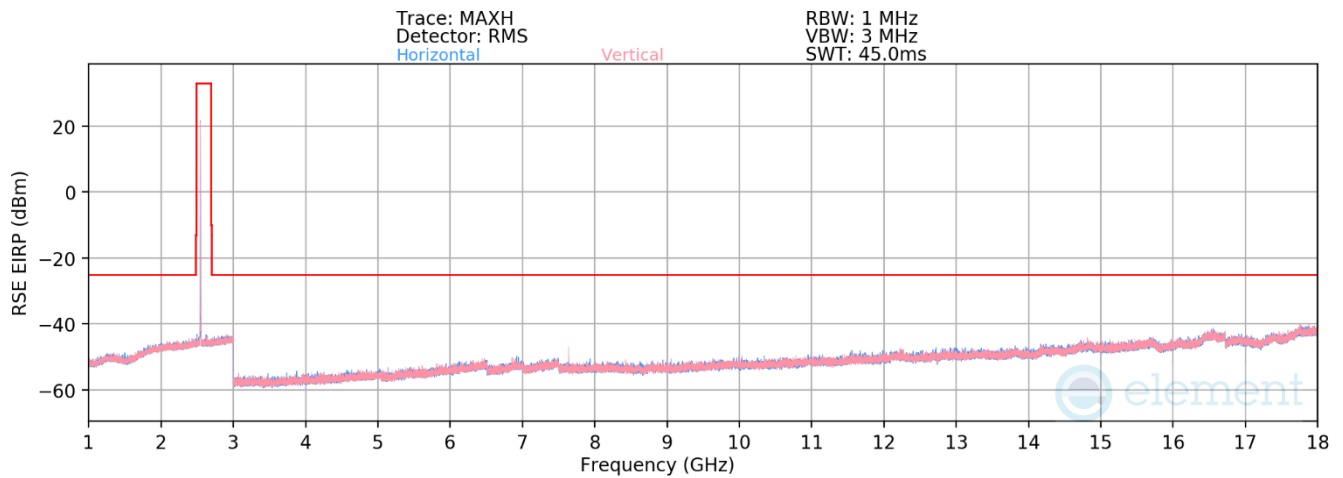
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-77.67	4.23	33.56	-62.00	-25.00	-37.00
7650.0	H	-	-	-79.60	8.86	36.26	-59.15	-25.00	-34.15
10200.0	H	-	-	-79.60	8.86	36.26	-59.15	-25.00	-34.15

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

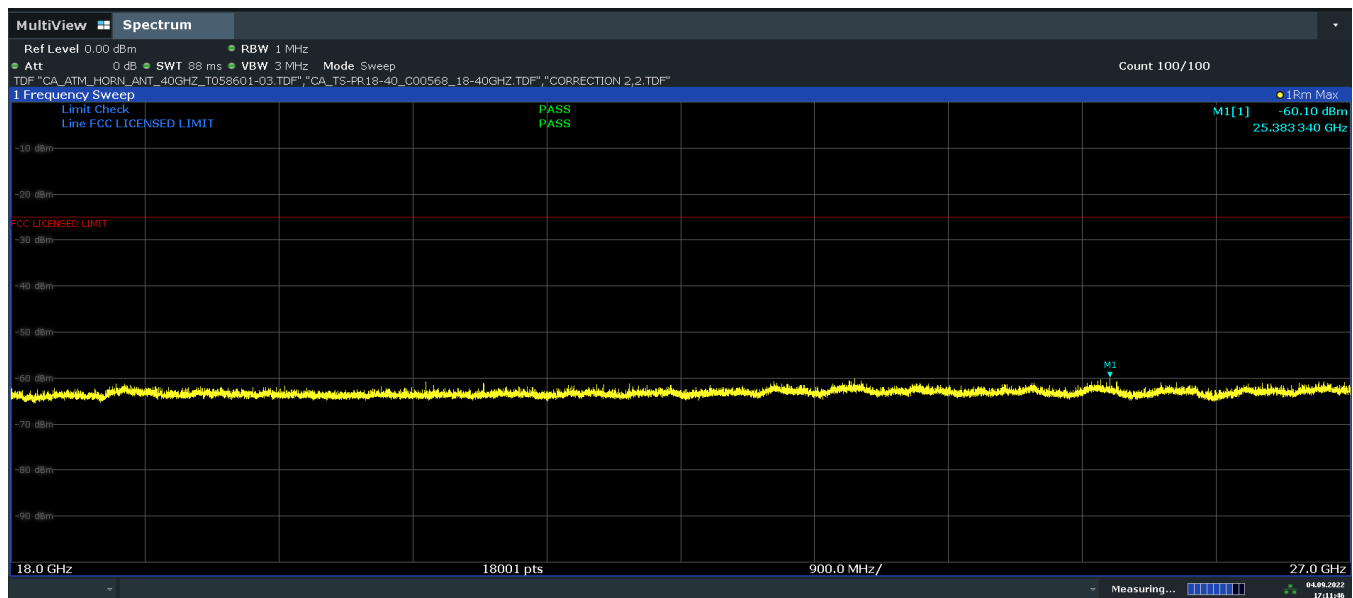
FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n41



Plot 7-317. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (NR Band n41)

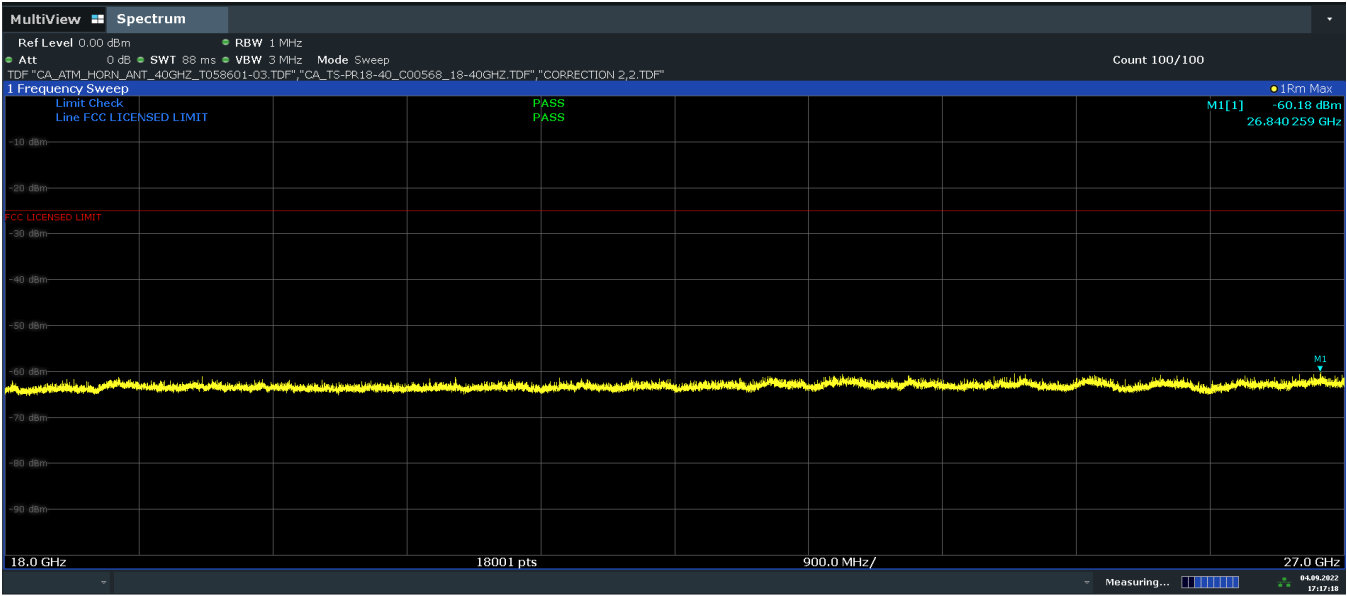


Plot 7-318. Antenna 4b Radiated Spurious Emission above 18GHz (NR Band n41, Pol. H)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device
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17:17:18 04.09.2022

Plot 7-319. Antenna 4b Radiated Spurious Emission above 18GHz (NR Band n41, Pol. V)

FCC ID: BCGA2764	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 245 of 278

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	V	-	-	-79.00	4.94	32.94	-62.32	-25.00	-37.32
7638.0	V	278	5	-77.34	9.27	38.93	-56.33	-25.00	-31.33
10184.0	V	-	-	-81.01	10.02	36.01	-59.25	-25.00	-34.25
12730.0	V	-	-	-81.79	12.53	37.74	-57.52	-25.00	-32.52
15276.0	V	-	-	-82.00	14.55	39.55	-55.71	-25.00	-30.71
17822.0	V	-	-	-84.66	21.96	44.30	-50.96	-25.00	-25.96

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	V	-	-	-78.65	4.57	32.92	-62.33	-25.00	-37.33
7779.0	V	271	5	-78.05	8.93	37.88	-57.37	-25.00	-32.37
10372.0	V	-	-	-80.73	9.90	36.17	-59.09	-25.00	-34.09
12965.0	V	-	-	-81.53	13.09	38.56	-56.70	-25.00	-31.70
15558.0	V	-	-	-82.30	15.71	40.41	-54.84	-25.00	-29.84

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	V	-	-	-78.86	4.95	33.09	-62.17	-25.00	-37.17
7920.0	V	-	-	-80.67	9.28	35.61	-59.65	-25.00	-34.65
10560.0	V	-	-	-80.94	10.05	36.11	-59.15	-25.00	-34.15
13200.0	V	-	-	-81.70	12.70	38.00	-57.25	-25.00	-32.25
15840.0	V	-	-	-81.78	14.39	39.61	-55.65	-25.00	-30.65

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE B7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	-	-	-	-77.63	3.94	33.31	-61.95	-25.00	-36.95
7530.0	-	-	-	-79.93	8.95	36.02	-59.24	-25.00	-34.24
10040.0	-	-	-	-82.49	13.28	37.79	-57.47	-25.00	-32.47

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	-	-	-	-77.63	3.99	33.36	-61.89	-25.00	-36.89
7605.0	-	-	-	-79.84	9.07	36.23	-59.02	-25.00	-34.02
10140.0	-	-	-	-82.80	13.37	37.57	-57.69	-25.00	-32.69

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

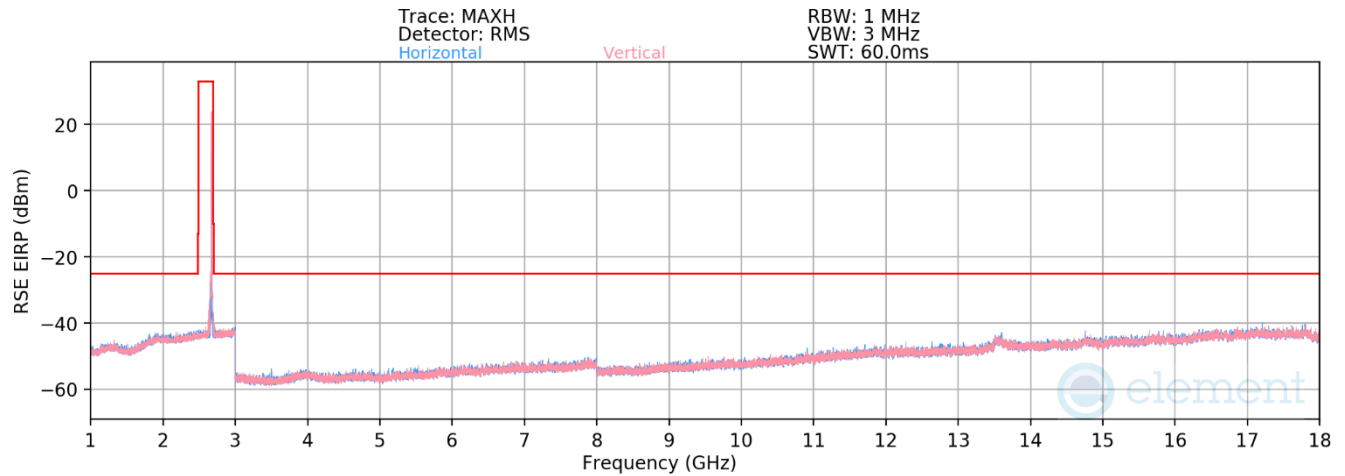
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	-	-	-	-77.61	4.41	33.80	-61.45	-25.00	-36.45
7680.0	-	-	-	-79.80	9.02	36.22	-59.04	-25.00	-34.04
10240.0	-	-	-	-82.96	14.22	38.26	-57.00	-25.00	-32.00

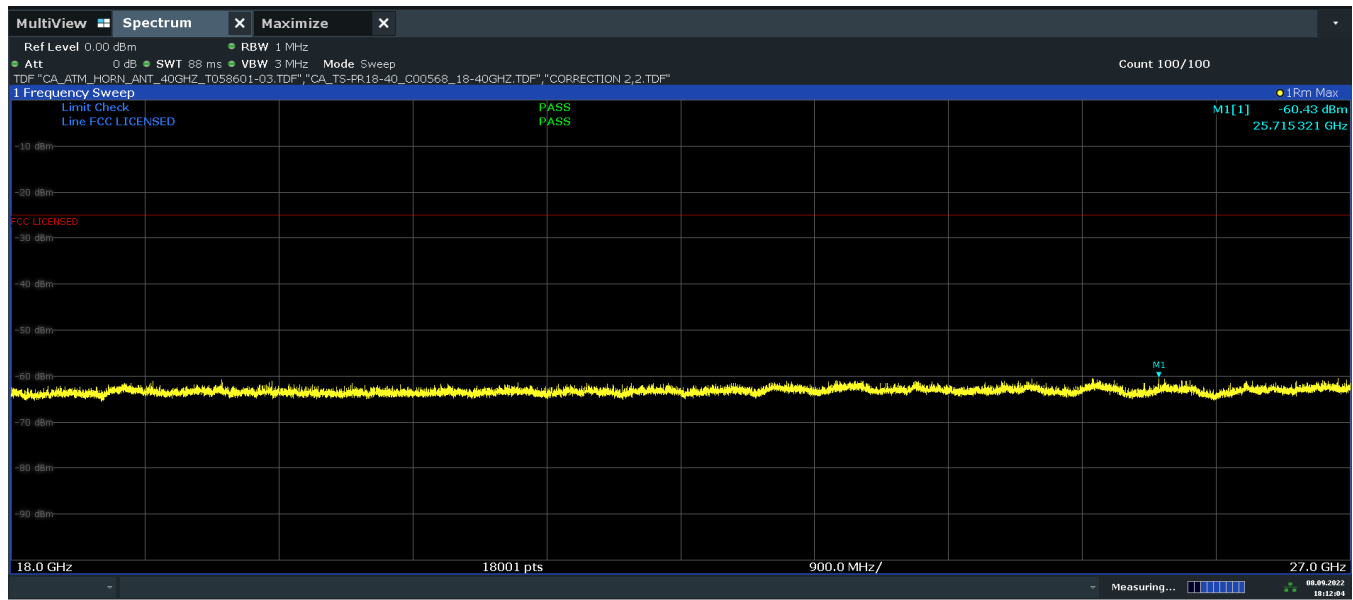
Table 7-91. Radiated Spurious Data (ULCA LTE B7 – High Channel)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
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ULCA - LTE B41



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

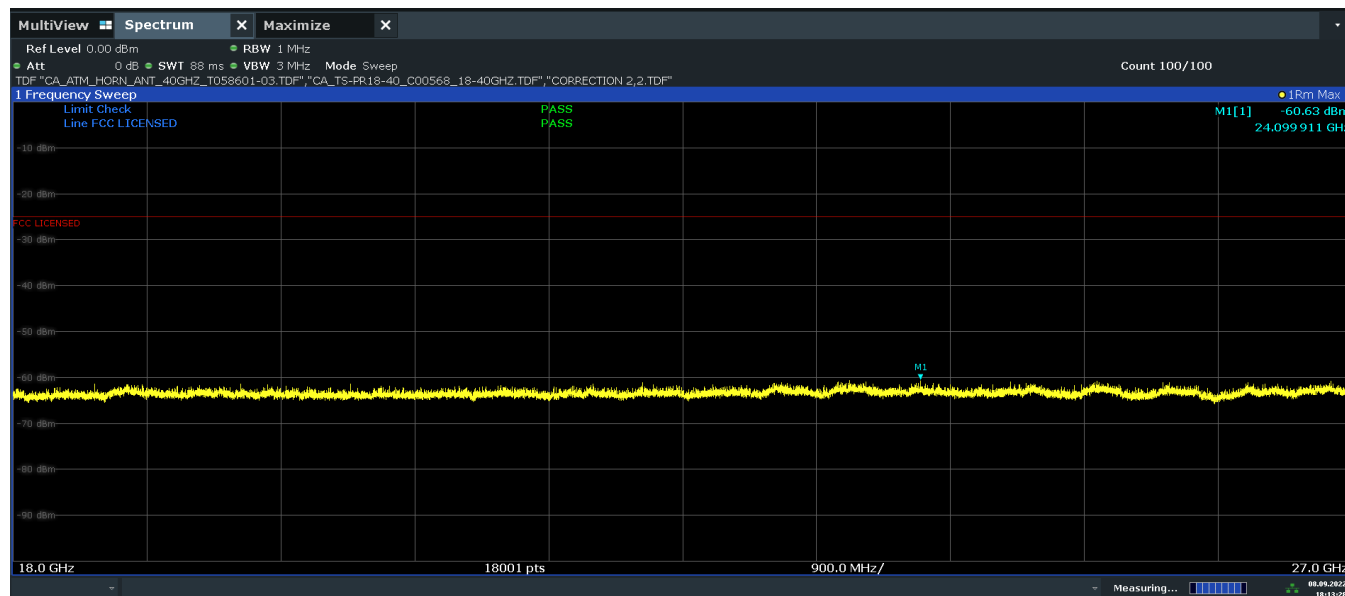


Plot 7-321. Antenna 1 Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. H)

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-322. Antenna 1 Radiated Spurious Emission above 18GHz (ULCA LTE B41, Pol. V)

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.65	3.85	33.20	-62.06	-25.00	-37.06
7518.0	H	-	-	-79.96	8.79	35.83	-59.43	-25.00	-34.43
10024.0	H	-	-	-82.46	13.28	37.82	-57.43	-25.00	-32.43

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	232	148	-76.15	5.23	36.08	-59.18	-25.00	-34.18
7779.0	H	-	-	-79.26	8.83	36.57	-58.68	-25.00	-33.68
10372.0	H	-	-	-82.03	13.56	38.53	-56.72	-25.00	-31.72

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	256	115	-76.23	5.18	35.95	-59.31	-25.00	-34.31
8040.0	H	-	-	-79.42	9.49	37.07	-58.19	-25.00	-33.19
10720.0	H	-	-	-82.19	14.45	39.26	-56.00	-25.00	-31.00
13400.0	H	-	-	-82.68	18.38	42.70	-52.56	-25.00	-27.56

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

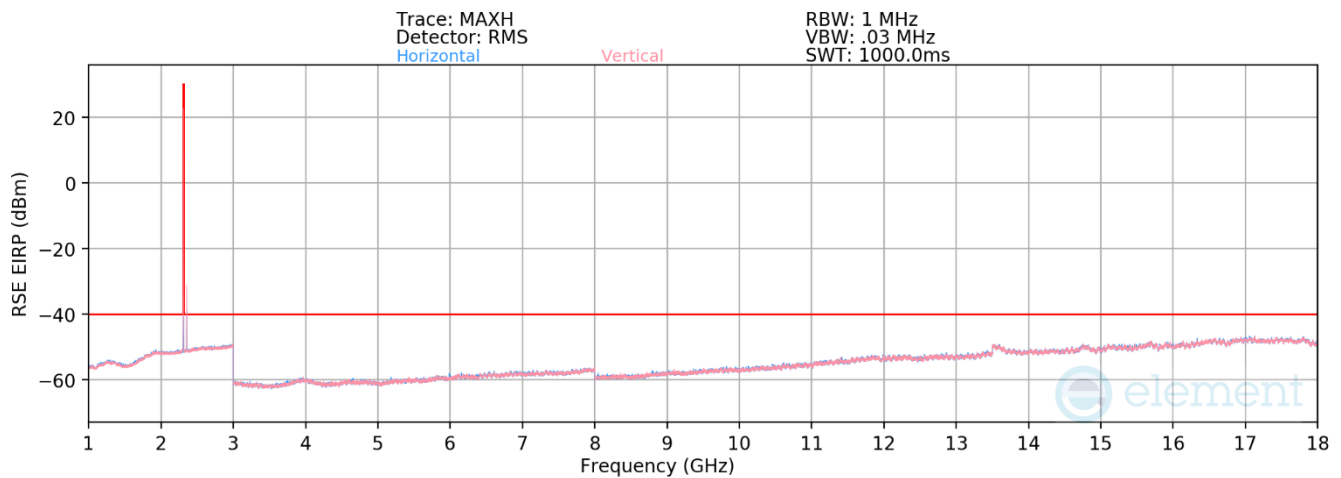
FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 250 of 278

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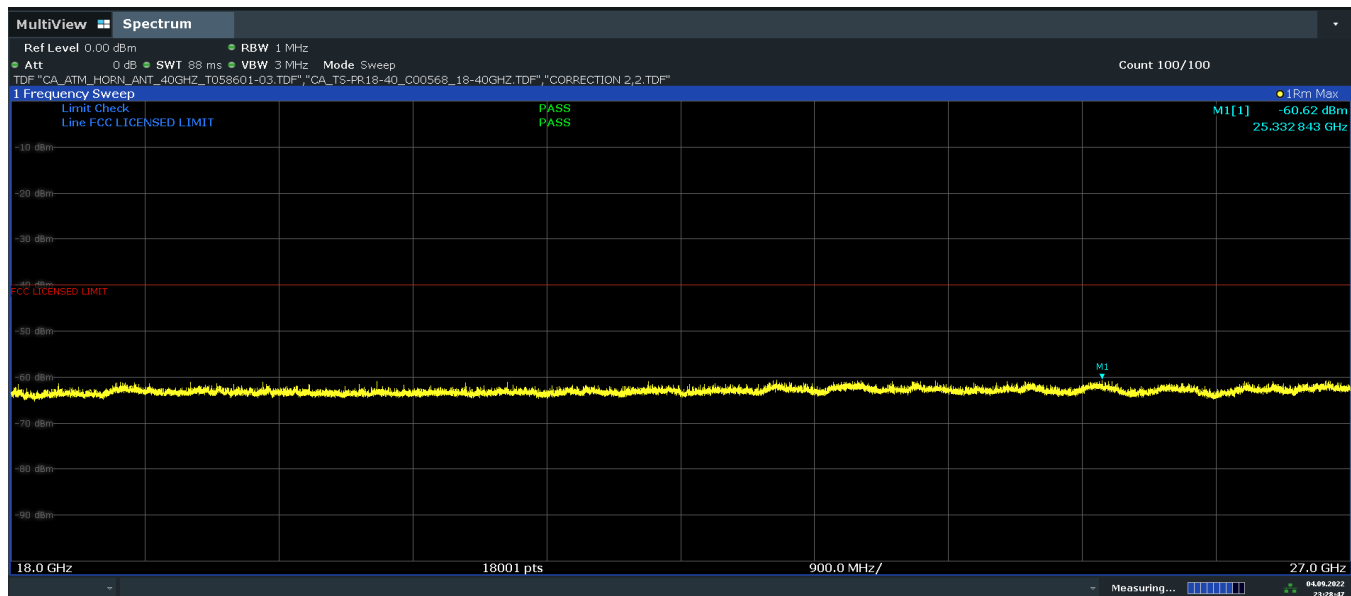
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7.7.3 Antenna 3 Radiated Spurious Emission Measurements

LTE Band 30



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



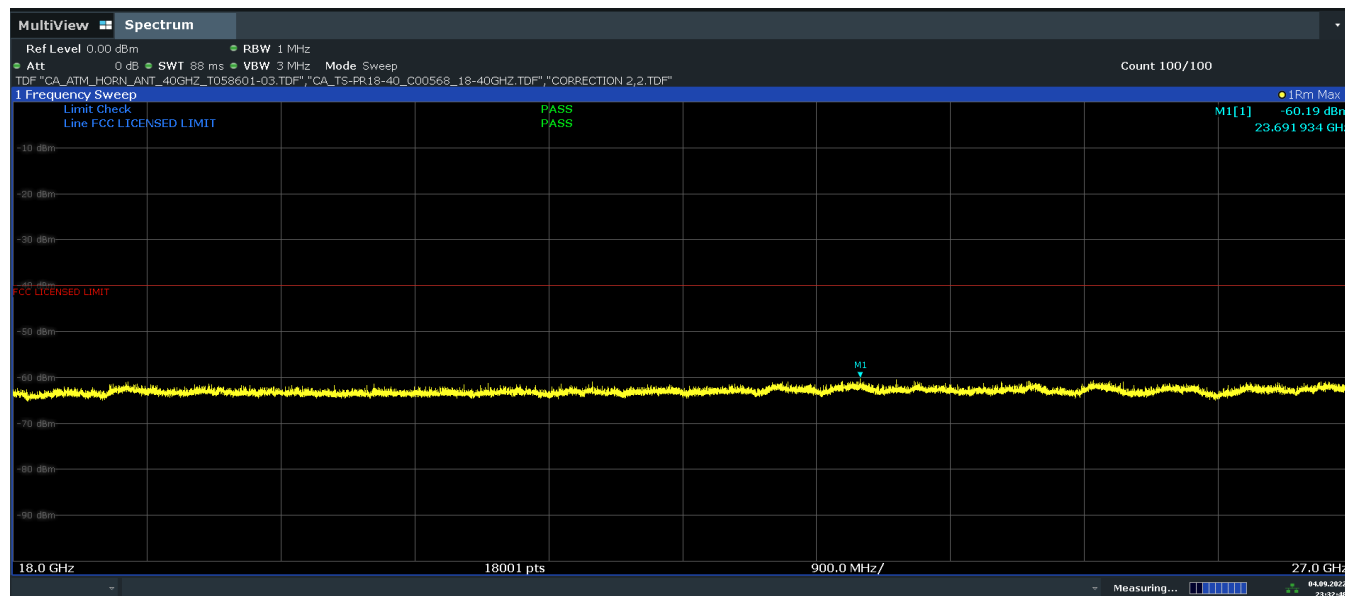
23:28:47 04.09.2022

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

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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23:32:49 04.09.2022

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1/12

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-77.43	4.15	33.72	-61.54	-40.00	-21.54
6922.5	H	-	-	-79.51	8.46	35.95	-59.31	-40.00	-19.31
9230.0	H	-	-	-82.11	11.42	36.31	-58.95	-40.00	-18.95

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-71.47	3.96	39.49	-55.76	-40.00	-15.76
6930.0	H	-	-	-73.44	8.37	41.93	-53.33	-40.00	-13.33
9240.0	H	-	-	-76.46	11.33	41.87	-53.39	-40.00	-13.39

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	-	-	-77.52	3.92	33.40	-61.86	-40.00	-21.86
6937.50	H	-	-	-79.52	8.30	35.78	-59.48	-40.00	-19.48
9250.00	H	-	-	-82.06	11.27	36.21	-59.05	-40.00	-19.05

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-77.43	3.94	33.51	-61.75	-25.00	-36.75
7530.0	H	-	-	-79.52	8.95	36.43	-58.83	-25.00	-33.83
10040.0	H	-	-	-82.47	13.28	37.81	-57.45	-25.00	-32.45

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.60	3.99	33.39	-61.86	-25.00	-36.86
7605.0	H	-	-	-79.89	9.07	36.18	-59.07	-25.00	-34.07
10140.0	H	-	-	-82.62	13.37	37.75	-57.51	-25.00	-32.51

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-77.69	4.41	33.72	-61.53	-25.00	-36.53
7680.00	H	-	-	-79.49	9.02	36.53	-58.73	-25.00	-33.73
10240.00	H	-	-	-82.49	14.22	38.73	-56.53	-25.00	-31.53

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.04	3.85	33.81	-61.45	-25.00	-36.45
7518.0	H	-	-	-79.43	8.79	36.36	-58.90	-25.00	-33.90
10024.0	H	-	-	-82.16	13.28	38.12	-57.13	-25.00	-32.13

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.57	5.23	34.66	-60.60	-25.00	-35.60
7779.0	H	-	-	-79.44	8.83	36.39	-58.86	-25.00	-33.86
10372.0	H	-	-	-82.44	13.56	38.12	-57.13	-25.00	-32.13

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-77.73	5.18	34.45	-60.81	-25.00	-35.81
8040.0	H	-	-	-80.69	9.49	35.80	-59.46	-25.00	-34.46
10720.0	H	-	-	-82.80	14.45	38.65	-56.61	-25.00	-31.61

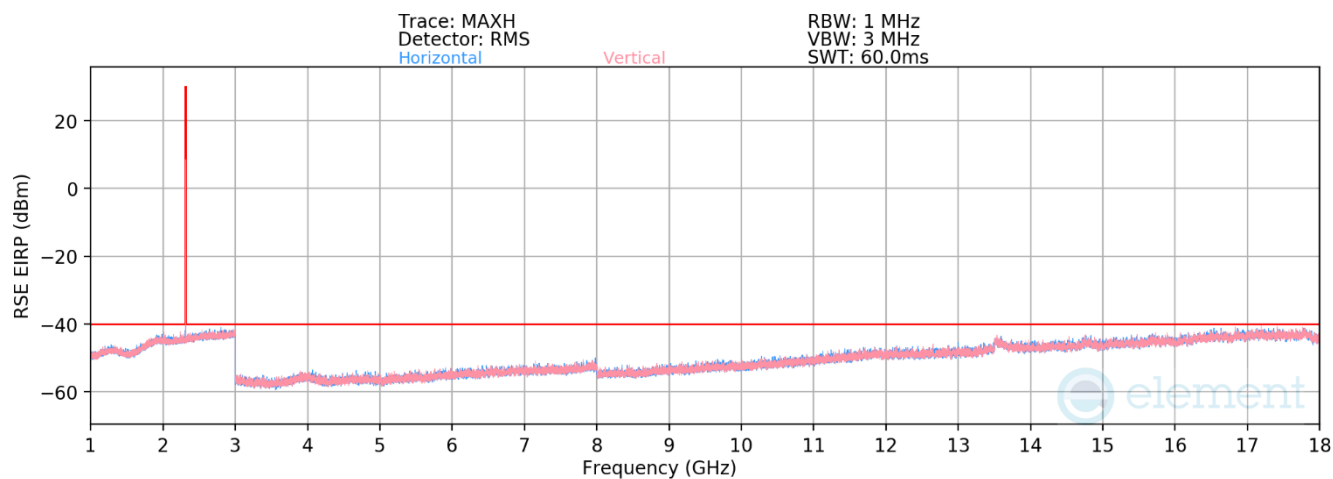
Table 7-103. Radiated Spurious Data (LTE Band 41 – High Channel)

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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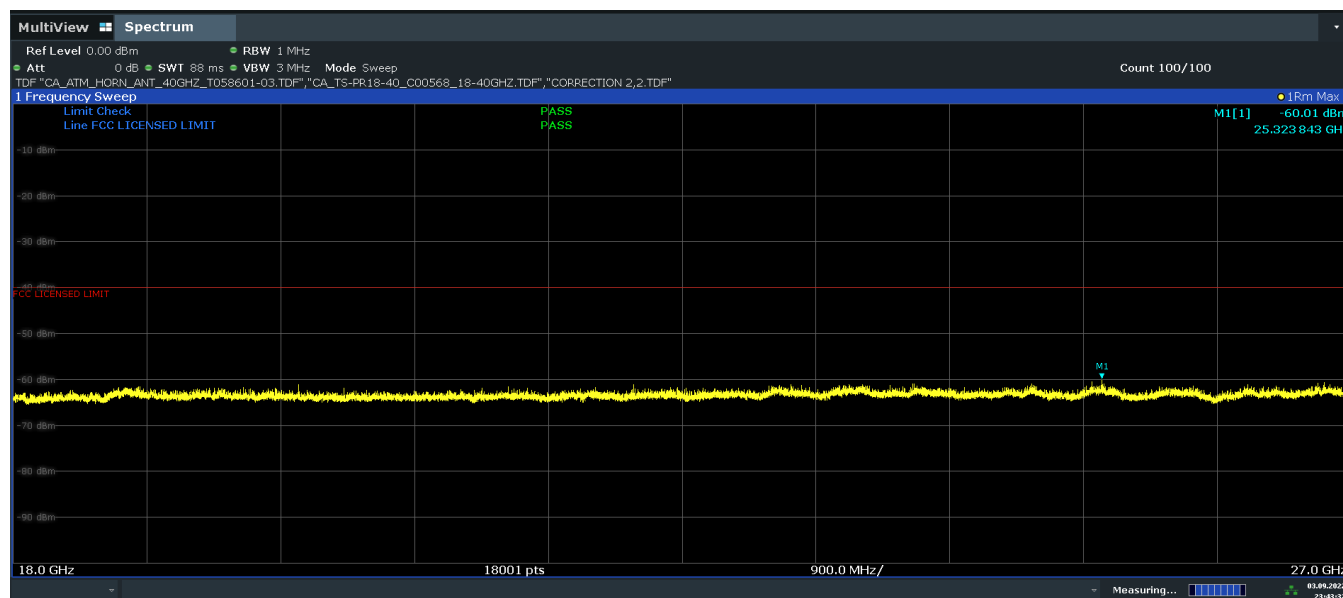
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NR Band n30



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



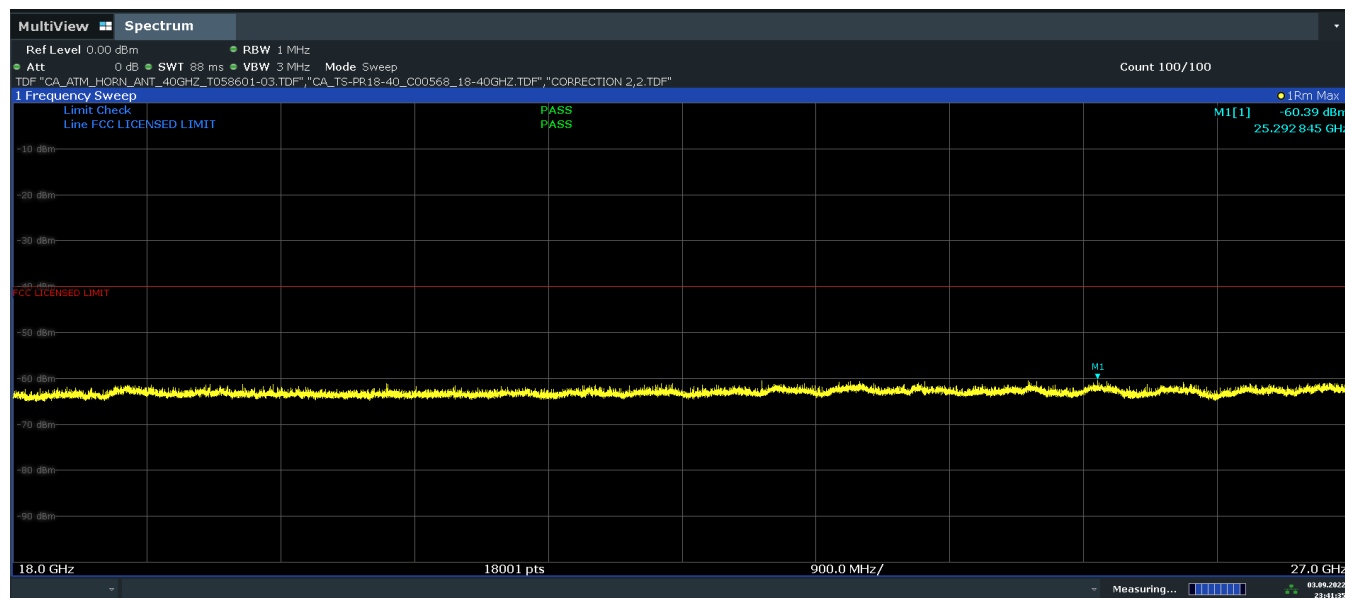
23:43:33 03.09.2022

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

FCC ID: BCGA2764	element	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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23:41:36 03.09.2022

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	-	-	-	-78.59	3.85	32.26	-63.00	-40.00	-23.00
6922.5	-	-	-	-79.97	8.56	35.59	-59.67	-40.00	-19.67
9230.0	-	-	-	-80.59	9.08	35.49	-59.77	-40.00	-19.77

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	222	158	-78.30	3.85	32.55	-62.70	-40.00	-22.70
6930.0	H	-	-	-79.81	8.47	35.66	-59.60	-40.00	-19.60
9240.0	H	-	-	-80.62	9.16	35.54	-59.72	-40.00	-19.72
11550.0	H	-	-	-80.81	11.40	37.59	-57.67	-40.00	-17.67

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	-	-	-	-77.16	3.92	33.76	-61.50	-40.00	-21.50
6937.5	-	-	-	-79.17	8.30	36.13	-59.13	-40.00	-19.13
9250.0	-	-	-	-81.64	11.27	36.63	-58.63	-40.00	-18.63

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

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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NR Band n7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	H	-	-	-77.56	3.89	33.33	-61.93	-25.00	-36.93
7560.0	H	-	-	-79.90	8.93	36.03	-59.23	-25.00	-34.23
10080.0	H	-	-	-82.23	13.17	37.94	-57.32	-25.00	-32.32

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.63	3.99	33.36	-61.89	-25.00	-36.89
7605.0	H	-	-	-79.91	9.07	36.16	-59.09	-25.00	-34.09
10140.0	H	-	-	-82.32	13.37	38.05	-57.21	-25.00	-32.21

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-77.51	4.23	33.72	-61.54	-25.00	-36.54
7650.0	H	-	-	-79.76	8.86	36.10	-59.16	-25.00	-34.16
10200.0	H	-	-	-82.67	13.78	38.11	-57.15	-25.00	-32.15

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.0	H	-	-	-77.38	4.18	33.80	-61.45	-25.00	-36.45
7638.0	H	-	-	-79.65	8.94	36.29	-58.96	-25.00	-33.96
10184.0	H	-	-	-82.62	13.87	38.25	-57.01	-25.00	-32.01

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.73	5.23	34.50	-60.76	-25.00	-35.76
7779.0	H	-	-	-79.46	8.83	36.37	-58.88	-25.00	-33.88
10372.0	H	-	-	-82.35	13.56	38.21	-57.04	-25.00	-32.04

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	H	-	-	-77.39	4.57	34.18	-61.07	-25.00	-36.07
7920.0	H	-	-	-80.21	9.95	36.74	-58.52	-25.00	-33.52
10560.0	H	-	-	-82.58	14.15	38.57	-56.69	-25.00	-31.69

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE B7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-77.52	3.91	33.39	-61.86	-25.00	-36.86
7530.0	H	-	-	-79.94	9.04	36.10	-59.16	-25.00	-34.16
10040.0	H	-	-	-82.46	13.34	37.88	-57.38	-25.00	-32.38

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.49	3.99	33.50	-61.75	-25.00	-36.75
7605.0	H	-	-	-79.66	9.07	36.41	-58.84	-25.00	-33.84
10140.0	H	-	-	-82.68	13.37	37.69	-57.57	-25.00	-32.57

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-77.68	4.41	33.73	-61.52	-25.00	-36.52
7680.0	H	-	-	-79.92	9.02	36.10	-59.16	-25.00	-34.16
10240.0	H	-	-	-82.67	14.22	38.55	-56.71	-25.00	-31.71

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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ULCA - LTE B41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-76.89	3.85	33.96	-61.30	-25.00	-36.30
7518.0	H	-	-	-79.61	8.79	36.18	-59.08	-25.00	-34.08
10024.0	H	-	-	-82.30	13.28	37.98	-57.27	-25.00	-32.27

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.62	5.23	34.61	-60.65	-25.00	-35.65
7779.0	H	-	-	-79.24	8.83	36.59	-58.66	-25.00	-33.66
10372.0	H	-	-	-82.38	13.56	38.18	-57.07	-25.00	-32.07

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-77.65	5.18	34.53	-60.73	-25.00	-35.73
8040.0	H	-	-	-80.03	9.49	36.46	-58.80	-25.00	-33.80
10720.0	H	-	-	-82.23	14.45	39.22	-56.04	-25.00	-31.04

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT						Approved by: Technical Manager
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7.7.4 Antenna 2b Radiated Spurious Emission Measurements

LTE Band 30

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	220	238	-77.02	4.15	34.13	-61.13	-40.00	-21.13
6922.5	H	-	-	-79.54	8.46	35.92	-59.34	-40.00	-19.34
9230.0	H	-	-	-81.65	11.42	36.77	-58.49	-40.00	-18.49
11537.5	H	-	-	-82.98	16.42	40.44	-54.82	-40.00	-14.82

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	209	218	-76.97	3.96	33.99	-61.26	-40.00	-21.26
6930.0	H	-	-	-79.22	8.37	36.15	-59.11	-40.00	-19.11
9240.0	H	-	-	-81.65	11.33	36.68	-58.58	-40.00	-18.58
11550.0	H	-	-	-82.94	16.92	40.98	-54.27	-40.00	-14.27

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.00	H	370	93	-77.36	3.92	33.56	-61.70	-40.00	-21.70
6937.50	H	-	-	-78.83	8.30	36.47	-58.79	-40.00	-18.79
9250.00	H	-	-	-81.58	11.27	36.69	-58.57	-40.00	-18.57
11562.50	H	-	-	-83.09	17.18	41.09	-54.17	-40.00	-14.17

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-77.19	3.94	33.75	-61.51	-25.00	-36.51
7530.0	H	-	-	-79.51	8.95	36.44	-58.82	-25.00	-33.82
10040.0	H	-	-	-82.52	13.28	37.76	-57.50	-25.00	-32.50

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.61	3.99	33.38	-61.87	-25.00	-36.87
7605.0	H	-	-	-79.89	9.07	36.18	-59.07	-25.00	-34.07
10140.0	H	-	-	-82.44	13.37	37.93	-57.33	-25.00	-32.33

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	-	-	-77.50	4.41	33.91	-61.34	-25.00	-36.34
7680.00	H	-	-	-79.59	9.02	36.43	-58.83	-25.00	-33.83
10240.00	H	-	-	-82.71	14.22	38.51	-56.75	-25.00	-31.75

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

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.16	3.85	33.69	-61.57	-25.00	-36.57
7518.0	H	-	-	-79.47	8.79	36.32	-58.94	-25.00	-33.94
10024.0	H	-	-	-82.51	13.28	37.77	-57.48	-25.00	-32.48

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.83	5.23	34.40	-60.86	-25.00	-35.86
7779.0	H	-	-	-79.35	8.83	36.48	-58.77	-25.00	-33.77
10372.0	H	-	-	-82.27	13.56	38.29	-56.96	-25.00	-31.96

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-77.66	5.18	34.52	-60.74	-25.00	-35.74
8040.0	V	284	206	-79.78	9.49	36.71	-58.55	-25.00	-33.55
10720.0	V	-	-	-82.79	14.45	38.66	-56.60	-25.00	-31.60
13400.0	V	-	-	-84.31	18.38	41.07	-54.19	-25.00	-29.19
16080.0	V	-	-	-83.94	21.02	44.08	-51.17	-25.00	-26.17

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

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NR Band n30

Bandwidth (MHz):	5
Frequency (MHz):	2307.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	H	-	-	-77.98	4.15	33.17	-62.09	-40.00	-22.09
6922.5	H	-	-	-79.97	8.46	35.49	-59.77	-40.00	-19.77
9230.0	H	-	-	-80.79	11.42	37.63	-57.63	-40.00	-17.63

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.0	H	-	-	-77.49	3.96	33.47	-61.78	-40.00	-21.78
6930.0	H	-	-	-79.39	8.37	35.98	-59.28	-40.00	-19.28
9240.0	H	-	-	-81.56	11.33	36.77	-58.49	-40.00	-18.49

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4625.0	H	-	-	-77.41	3.92	33.51	-61.75	-40.00	-21.75
6937.5	H	-	-	-79.29	8.30	36.01	-59.25	-40.00	-19.25
9250.0	H	-	-	-81.51	11.27	36.76	-58.50	-40.00	-18.50

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

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NR Band n7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5040.0	H	-	-	-77.67	3.89	33.22	-62.04	-25.00	-37.04
7560.0	H	-	-	-79.86	8.93	36.07	-59.19	-25.00	-34.19
10080.0	H	-	-	-82.29	13.17	37.88	-57.38	-25.00	-32.38

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.75	3.99	33.24	-62.01	-25.00	-37.01
7605.0	H	-	-	-79.90	9.07	36.17	-59.08	-25.00	-34.08
10140.0	H	-	-	-82.63	13.37	37.74	-57.52	-25.00	-32.52

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.0	H	-	-	-77.58	4.23	33.65	-61.61	-25.00	-36.61
7650.0	H	-	-	-79.74	8.86	36.12	-59.14	-25.00	-34.14
10200.0	H	-	-	-82.75	13.78	38.03	-57.23	-25.00	-32.23

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

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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	H	-	-	-77.37	4.18	33.81	-61.44	-25.00	-36.44
7638.0	V	105	138	-76.92	8.94	39.02	-56.23	-25.00	-31.23
10184.0	H	-	-	-82.50	13.87	38.37	-56.89	-25.00	-31.89
12730.0	H	-	-	-84.05	18.72	41.67	-53.58	-25.00	-28.58
15276.0	H	-	-	-84.21	21.26	44.05	-51.21	-25.00	-26.21

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.74	5.23	34.49	-60.77	-25.00	-35.77
7779.0	H	-	-	-79.24	8.83	36.59	-58.66	-25.00	-33.66
10372.0	H	-	-	-82.26	13.56	38.30	-56.95	-25.00	-31.95

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.0	H	-	-	-77.57	4.57	34.00	-61.25	-25.00	-36.25
7920.0	H	-	-	-80.35	9.95	36.60	-58.66	-25.00	-33.66
10560.0	H	-	-	-82.68	14.15	38.47	-56.79	-25.00	-31.79

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

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ULCA - LTE B7

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-77.72	3.94	33.22	-62.04	-25.00	-37.04
7530.0	H	-	-	-79.96	8.95	35.99	-59.27	-25.00	-34.27
10040.0	H	-	-	-82.46	13.28	37.82	-57.44	-25.00	-32.44

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.0	H	-	-	-77.72	3.99	33.27	-61.98	-25.00	-36.98
7605.0	H	-	-	-79.85	9.07	36.22	-59.03	-25.00	-34.03
10140.0	H	-	-	-82.66	13.37	37.71	-57.55	-25.00	-32.55

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.0	H	-	-	-77.67	4.41	33.74	-61.51	-25.00	-36.51
7680.0	H	-	-	-79.82	9.02	36.20	-59.06	-25.00	-34.06
10240.0	H	-	-	-82.73	14.22	38.49	-56.77	-25.00	-31.77

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

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ULCA - LTE B41

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	H	-	-	-77.01	3.85	33.84	-61.42	-25.00	-36.42
7518.0	H	-	-	-79.36	8.79	36.43	-58.83	-25.00	-33.83
10024.0	H	-	-	-82.22	13.28	38.06	-57.19	-25.00	-32.19

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.0	H	-	-	-77.52	5.23	34.71	-60.55	-25.00	-35.55
7779.0	H	-	-	-79.29	8.83	36.54	-58.71	-25.00	-33.71
10372.0	H	-	-	-82.28	13.56	38.28	-56.97	-25.00	-31.97

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.0	H	-	-	-77.62	5.18	34.56	-60.70	-25.00	-35.70
8040.0	H	-	-	-79.99	9.49	36.50	-58.76	-25.00	-33.76
10720.0	H	-	-	-82.81	14.45	38.64	-56.62	-25.00	-31.62

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

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7.8 Frequency Stability / Temperature Variation

§2.1055, §27.54

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26 2015

TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

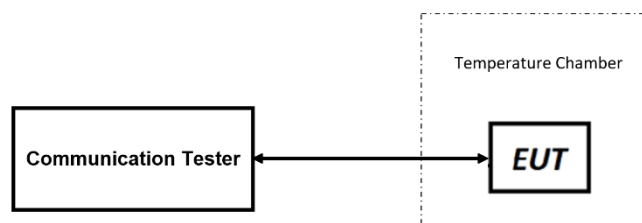


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

LTE Band 30							
			Low Channel Frequency (Hz):		2,307,500,000		
			High Channel Frequency (Hz):		2,312,500,000		
			Ref. Voltage (VDC):		3.8		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,031	2,312,500,038	19	19	0.0000008
		- 20	2,307,500,022	2,312,500,034	10	15	0.0000006
		- 10	2,307,500,022	2,312,500,030	10	11	0.0000005
		0	2,307,500,025	2,312,500,032	13	13	0.0000006
		+ 10	2,307,500,036	2,312,500,031	24	12	0.0000010
		+ 20 (Ref)	2,307,500,012	2,312,500,019	0	0	0.0000000
		+ 30	2,307,500,028	2,312,500,031	16	12	0.0000007
		+ 40	2,307,500,034	2,312,500,028	22	9	0.0000010
		+ 50	2,307,500,031	2,312,500,039	19	20	0.0000009
Battery Endpoint	3.23	+ 20	2,307,500,024	2,312,500,037	12	18	0.0000008

Table 7-143. LTE Band 30 Frequency Stability Data

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Frequency Stability / Temperature Variation

LTE Band 7							
			Low Channel Frequency (Hz):		2,510,000,000		
			High Channel Frequency (Hz):		2,560,000,000		
			Ref. Voltage (VDC):		3.8		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,510,000,038	2,560,000,034	22	19	0.0000009
		- 20	2,510,000,031	2,560,000,022	15	7	0.0000006
		- 10	2,510,000,035	2,560,000,037	19	22	0.0000009
		0	2,510,000,030	2,560,000,034	14	19	0.0000007
		+ 10	2,510,000,026	2,560,000,026	10	11	0.0000004
		+ 20 (Ref)	2,510,000,016	2,560,000,015	0	0	0.0000000
		+ 30	2,510,000,035	2,560,000,023	19	8	0.0000008
		+ 40	2,510,000,037	2,560,000,026	21	11	0.0000008
		+ 50	2,510,000,035	2,560,000,032	19	17	0.0000008
Battery Endpoint	3.23	+ 20	2,510,000,029	2,560,000,036	13	21	0.0000008

Table 7-144. LTE Band 7 Frequency Stability Data

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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):	3.8			
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,506,000,017	2,580,000,028	10	12	0.0000005
		- 20	2,506,000,015	2,580,000,035	8	19	0.0000007
		- 10	2,506,000,014	2,580,000,024	7	8	0.0000003
		0	2,506,000,016	2,580,000,028	9	12	0.0000005
		+ 10	2,506,000,019	2,580,000,024	12	8	0.0000005
		+ 20 (Ref)	2,506,000,007	2,580,000,016	0	0	0.0000000
		+ 30	2,506,000,028	2,580,000,031	21	15	0.0000008
		+ 40	2,506,000,017	2,580,000,030	10	14	0.0000005
		+ 50	2,506,000,018	2,580,000,035	11	19	0.0000007
Battery Endpoint	3.23	+ 20	2,506,000,025	2,580,000,030	18	14	0.0000007

Table 7-145. LTE Band 41 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n30							
			Low Channel Frequency (Hz):		2,307,500,000		
			High Channel Frequency (Hz):		2,312,500,000		
			Ref. Voltage (VDC):		3.8		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,307,500,194	2,312,500,161	96	75	0.0000042
		- 20	2,307,500,195	2,312,500,188	97	102	0.0000044
		- 10	2,307,500,174	2,312,500,162	76	76	0.0000033
		0	2,307,500,186	2,312,500,194	88	108	0.0000047
		+ 10	2,307,500,195	2,312,500,160	97	74	0.0000042
		+ 20 (Ref)	2,307,500,098	2,312,500,086	0	0	0.0000000
		+ 30	2,307,500,202	2,312,500,186	104	100	0.0000045
		+ 40	2,307,500,206	2,312,500,162	108	76	0.0000047
		+ 50	2,307,500,170	2,312,500,180	72	94	0.0000041
Battery Endpoint	3.23	+ 20	2,307,500,193	2,312,500,156	95	70	0.0000041

Table 7-146. NR Band n30 Frequency Stability Data

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n7							
			Low Channel Frequency (Hz):		2,510,000,000		
			High Channel Frequency (Hz):		2,560,000,000		
			Ref. Voltage (VDC):		3.8		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,510,000,182	2,560,000,185	82	80	0.0000033
		- 20	2,510,000,173	2,560,000,203	73	98	0.0000038
		- 10	2,510,000,202	2,560,000,209	102	104	0.0000041
		0	2,510,000,178	2,560,000,177	78	72	0.0000031
		+ 10	2,510,000,190	2,560,000,202	90	97	0.0000038
		+ 20 (Ref)	2,510,000,100	2,560,000,105	0	0	0.0000000
		+ 30	2,510,000,195	2,560,000,203	95	98	0.0000038
		+ 40	2,510,000,183	2,560,000,189	83	84	0.0000033
		+ 50	2,510,000,189	2,560,000,213	89	108	0.0000042
Battery Endpoint	3.23	+ 20	2,510,000,200	2,560,000,195	100	90	0.0000040

Table 7-147. NR Band n7 Frequency Stability Data

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n41							
			Low Channel Frequency (Hz):		2,550,000,000		
			High Channel Frequency (Hz):		2,640,000,000		
			Ref. Voltage (VDC):		3.8		
Voltage (%)	Power (VDC)	Temp (°C)	Low Freq. (Hz)	High Freq. (Hz)	Low Freq. Dev. (Hz)	High Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	2,550,000,169	2,640,000,191	95	101	0.0000038
		- 20	2,550,000,156	2,640,000,192	82	102	0.0000039
		- 10	2,550,000,153	2,640,000,187	79	97	0.0000037
		0	2,550,000,182	2,640,000,184	108	94	0.0000042
		+ 10	2,550,000,168	2,640,000,162	94	72	0.0000037
		+ 20 (Ref)	2,550,000,074	2,640,000,090	0	0	0.0000000
		+ 30	2,550,000,177	2,640,000,199	103	109	0.0000041
		+ 40	2,550,000,166	2,640,000,179	92	89	0.0000036
		+ 50	2,550,000,169	2,640,000,160	95	70	0.0000037
Battery Endpoint	3.23	+ 20	2,550,000,166	2,640,000,172	92	82	0.0000036

Table 7-148. NR Band n41PC2 Frequency Stability Data

FCC ID: BCGA2764	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 277 of 278

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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: BCGA2764** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: BCGA2764		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090028-04-R2.BCG	Test Dates: 5/30/2022 – 10/5/2022	EUT Type: Tablet Device	Page 278 of 278

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