

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	-0.40	1 / 12	25.70	25.30	0.339	33.01	-7.71
		2593.0	-0.40	1 / 24	25.52	25.12	0.325	33.01	-7.89
		2687.5	-0.40	1 / 24	25.35	24.95	0.313	33.01	-8.06
	16-QAM	2498.5	-0.40	1 / 12	24.72	24.32	0.270	33.01	-8.69
	64-QAM	2498.5	-0.40	1 / 12	23.64	23.24	0.211	33.01	-9.77
256-QAM	2593.0	-0.40	1 / 12	20.79	20.39	0.109	33.01	-12.62	
10 MHz	QPSK	2501.0	-0.40	1 / 25	25.70	25.30	0.339	33.01	-7.71
		2593.0	-0.40	1 / 0	25.53	25.13	0.326	33.01	-7.88
		2685.0	-0.40	1 / 25	25.27	24.87	0.307	33.01	-8.14
	16-QAM	2501.0	-0.40	1 / 25	24.60	24.20	0.263	33.01	-8.81
	64-QAM	2593.0	-0.40	1 / 0	23.65	23.25	0.211	33.01	-9.76
256-QAM	2501.0	-0.40	1 / 25	20.73	20.33	0.108	33.01	-12.68	
15 MHz	QPSK	2503.5	-0.40	1 / 37	25.70	25.30	0.339	33.01	-7.71
		2593.0	-0.40	1 / 37	25.50	25.10	0.324	33.01	-7.91
		2682.5	-0.40	1 / 37	25.23	24.83	0.304	33.01	-8.18
	16-QAM	2503.5	-0.40	1 / 37	24.54	24.14	0.259	33.01	-8.87
	64-QAM	2503.5	-0.40	1 / 37	23.88	23.48	0.223	33.01	-9.53
256-QAM	2503.5	-0.40	1 / 37	20.75	20.35	0.108	33.01	-12.66	
20 MHz	QPSK	2506.0	-0.40	1 / 50	25.70	25.30	0.339	33.01	-7.71
		2593.0	-0.40	1 / 99	25.54	25.14	0.327	33.01	-7.87
		2680.0	-0.40	1 / 0	25.40	25.00	0.316	33.01	-8.01
	16-QAM	2506.0	-0.40	1 / 99	24.79	24.39	0.275	33.01	-8.62
	64-QAM	2506.0	-0.40	1 / 50	23.74	23.34	0.216	33.01	-9.67
256-QAM	2506.0	-0.40	1 / 50	20.67	20.27	0.106	33.01	-12.74	

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 196 of 274

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	-2.10	1 / 1	21.95	19.85	0.097	23.98	-4.13
		2310.0	-2.10	1 / 1	21.98	19.88	0.097	23.98	-4.10
		2312.5	-2.10	1 / 23	22.18	20.08	0.102	23.98	-3.90
	QPSK	2307.5	-2.10	1 / 12	22.11	20.01	0.100	23.98	-3.97
		2310.0	-2.10	1 / 1	22.20	20.10	0.102	23.98	-3.88
		2312.5	-2.10	1 / 12	22.16	20.06	0.101	23.98	-3.92
	16-QAM	2312.5	-2.10	1 / 12	21.70	19.60	0.091	23.98	-4.38
64-QAM	2307.5	-2.10	1 / 12	19.91	17.81	0.060	23.98	-6.17	
256-QAM	2307.5	-2.10	1 / 1	17.76	15.66	0.037	23.98	-8.32	
10 MHz	π/2 BPSK	2310.0	-2.10	1 / 50	22.20	20.10	0.102	23.98	-3.88
	QPSK	2310.0	-2.10	1 / 25	21.89	19.79	0.095	23.98	-4.19
	16-QAM	2310.0	-2.10	1 / 25	21.27	19.17	0.083	23.98	-4.81
	64-QAM	2310.0	-2.10	1 / 50	19.38	17.28	0.053	23.98	-6.70
	256-QAM	2310.0	-2.10	1 / 25	17.69	15.59	0.036	23.98	-8.39

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 197 of 274

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	-0.30	1 / 23	22.20	21.90	0.155	33.01	-11.11
		2535.0	-0.30	1 / 1	21.70	21.40	0.138	33.01	-11.61
		2567.5	-0.30	1 / 1	21.51	21.21	0.132	33.01	-11.80
	QPSK	2502.5	-0.30	1 / 23	21.68	21.38	0.138	33.01	-11.63
		2535.0	-0.30	1 / 12	21.74	21.44	0.139	33.01	-11.57
		2567.5	-0.30	1 / 23	21.83	21.53	0.142	33.01	-11.48
	16-QAM	2502.5	-0.30	1 / 1	20.88	20.58	0.114	33.01	-12.43
64-QAM	2535.0	-0.30	1 / 1	19.56	19.26	0.084	33.01	-13.75	
256-QAM	2502.5	-0.30	1 / 1	17.35	17.05	0.051	33.01	-15.96	
10 MHz	π/2 BPSK	2505.0	-0.30	1 / 50	21.83	21.53	0.142	33.01	-11.48
		2535.0	-0.30	1 / 50	22.06	21.76	0.150	33.01	-11.25
		2565.0	-0.30	1 / 25	21.86	21.56	0.143	33.01	-11.45
	QPSK	2505.0	-0.30	1 / 1	21.99	21.69	0.148	33.01	-11.32
		2535.0	-0.30	1 / 50	22.20	21.90	0.155	33.01	-11.11
		2565.0	-0.30	1 / 25	22.20	21.90	0.155	33.01	-11.11
	16-QAM	2535.0	-0.30	1 / 1	21.44	21.14	0.130	33.01	-11.87
64-QAM	2535.0	-0.30	1 / 1	19.88	19.58	0.091	33.01	-13.44	
256-QAM	2535.0	-0.30	1 / 50	17.54	17.24	0.053	33.01	-15.77	
15 MHz	π/2 BPSK	2507.5	-0.30	1 / 1	21.92	21.62	0.145	33.01	-11.39
		2535.0	-0.30	1 / 37	21.84	21.54	0.143	33.01	-11.47
		2562.5	-0.30	1 / 73	21.66	21.36	0.137	33.01	-11.65
	QPSK	2507.5	-0.30	1 / 1	21.86	21.56	0.143	33.01	-11.45
		2535.0	-0.30	1 / 73	22.20	21.90	0.155	33.01	-11.11
		2562.5	-0.30	1 / 37	21.94	21.64	0.146	33.01	-11.38
	16-QAM	2535.0	-0.30	1 / 37	21.48	21.18	0.131	33.01	-11.83
64-QAM	2535.0	-0.30	1 / 1	19.92	19.62	0.092	33.01	-13.39	
256-QAM	2507.5	-0.30	1 / 37	17.64	17.34	0.054	33.01	-15.67	
20 MHz	π/2 BPSK	2510.0	-0.30	1 / 98	22.20	21.90	0.155	33.01	-11.11
		2535.0	-0.30	1 / 1	21.92	21.62	0.145	33.01	-11.39
		2560.0	-0.30	1 / 50	21.95	21.65	0.146	33.01	-11.36
	QPSK	2510.0	-0.30	1 / 98	21.95	21.65	0.146	33.01	-11.36
		2535.0	-0.30	1 / 50	22.11	21.81	0.152	33.01	-11.20
		2560.0	-0.30	1 / 50	22.05	21.75	0.149	33.01	-11.27
	16-QAM	2510.0	-0.30	1 / 98	21.66	21.36	0.137	33.01	-11.65
64-QAM	2560.0	-0.30	1 / 1	19.83	19.53	0.090	33.01	-13.48	
256-QAM	2535.0	-0.30	1 / 98	17.79	17.49	0.056	33.01	-15.52	
25 MHz	π/2 BPSK	2512.5	-0.30	1 / 66	21.99	21.69	0.148	33.01	-11.32
		2535.0	-0.30	1 / 1	22.08	21.78	0.151	33.01	-11.23
		2557.5	-0.30	1 / 66	21.94	21.64	0.146	33.01	-11.37
	QPSK	2512.5	-0.30	1 / 66	21.80	21.50	0.141	33.01	-11.51
		2535.0	-0.30	1 / 66	22.20	21.90	0.155	33.01	-11.11
		2557.5	-0.30	1 / 66	21.76	21.46	0.140	33.01	-11.55
	16-QAM	2512.5	-0.30	1 / 131	21.28	20.98	0.125	33.01	-12.03
64-QAM	2557.5	-0.30	1 / 1	19.66	19.36	0.086	33.01	-13.65	
256-QAM	2557.5	-0.30	1 / 66	17.40	17.10	0.051	33.01	-15.91	
30 MHz	π/2 BPSK	2515.0	-0.30	1 / 80	22.18	21.88	0.154	33.01	-11.13
		2535.0	-0.30	1 / 1	21.87	21.57	0.144	33.01	-11.44
		2555.0	-0.30	1 / 80	22.20	21.90	0.155	33.01	-11.11
	QPSK	2515.0	-0.30	1 / 1	21.93	21.63	0.146	33.01	-11.38
		2535.0	-0.30	1 / 1	21.75	21.45	0.140	33.01	-11.56
		2555.0	-0.30	1 / 1	22.15	21.85	0.153	33.01	-11.16
	16-QAM	2555.0	-0.30	1 / 1	21.14	20.84	0.121	33.01	-12.17
64-QAM	2515.0	-0.30	1 / 158	19.52	19.22	0.084	33.01	-13.79	
256-QAM	2515.0	-0.30	1 / 1	17.44	17.14	0.052	33.01	-15.87	
40 MHz	π/2 BPSK	2520.0	-0.30	1 / 214	21.81	21.51	0.142	33.01	-11.50
		2535.0	-0.30	1 / 1	21.73	21.43	0.139	33.01	-11.58
		2550.0	-0.30	1 / 1	21.81	21.51	0.142	33.01	-11.50
	QPSK	2520.0	-0.30	1 / 108	21.82	21.52	0.142	33.01	-11.49
		2535.0	-0.30	1 / 108	21.65	21.35	0.136	33.01	-11.66
		2550.0	-0.30	1 / 214	21.77	21.47	0.140	33.01	-11.54
	16-QAM	2535.0	-0.30	1 / 1	21.28	20.98	0.125	33.01	-12.03
64-QAM	2535.0	-0.30	1 / 214	19.58	19.28	0.085	33.01	-13.73	
256-QAM	2550.0	-0.30	1 / 1	17.56	17.26	0.053	33.01	-15.75	

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

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device
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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	-0.40	1 / 25	28.16	27.76	0.597	33.01	-5.25
		2593.0	-0.40	1 / 49	28.27	27.87	0.613	33.01	-5.14
		2680.0	-0.40	1 / 25	28.33	27.93	0.620	33.01	-5.08
	QPSK	2506.0	-0.40	1 / 25	28.01	27.61	0.577	33.01	-5.40
		2593.0	-0.40	1 / 25	28.66	28.26	0.670	33.01	-4.75
		2680.0	-0.40	1 / 1	28.51	28.11	0.647	33.01	-4.90
		2593.0	-0.40	1 / 25	28.18	27.78	0.600	33.01	-5.23
	16-QAM	2593.0	-0.40	1 / 25	27.01	26.61	0.458	33.01	-6.40
	64-QAM	2593.0	-0.40	1 / 25	24.65	24.25	0.266	33.01	-8.76
	30 MHz	π/2 BPSK	2511.0	-0.40	1 / 39	28.19	27.79	0.601	33.01
2593.0			-0.40	1 / 39	28.65	28.25	0.668	33.01	-4.76
2675.0			-0.40	1 / 1	28.70	28.30	0.676	33.01	-4.71
QPSK		2511.0	-0.40	1 / 39	27.83	27.43	0.554	33.01	-5.58
		2593.0	-0.40	1 / 39	28.54	28.14	0.652	33.01	-4.87
		2675.0	-0.40	1 / 1	28.49	28.09	0.643	33.01	-4.93
16-QAM		2593.0	-0.40	1 / 39	27.68	27.28	0.535	33.01	-5.73
64-QAM		2511.0	-0.40	1 / 39	26.69	26.29	0.426	33.01	-6.72
256-QAM		2675.0	-0.40	1 / 39	24.41	24.01	0.252	33.01	-9.00
40 MHz		π/2 BPSK	2516.0	-0.40	1 / 53	28.33	27.93	0.621	33.01
	2593.0		-0.40	1 / 1	28.54	28.14	0.652	33.01	-4.87
	2670.0		-0.40	1 / 1	28.55	28.15	0.654	33.01	-4.86
	QPSK	2516.0	-0.40	1 / 53	28.02	27.62	0.579	33.01	-5.39
		2593.0	-0.40	1 / 1	28.48	28.08	0.642	33.01	-4.93
		2670.0	-0.40	1 / 1	28.70	28.30	0.676	33.01	-4.71
	16-QAM	2593.0	-0.40	1 / 53	28.09	27.69	0.588	33.01	-5.32
	64-QAM	2520.0	-0.40	1 / 53	26.98	26.58	0.455	33.01	-6.43
	256-QAM	2670.0	-0.40	1 / 53	24.85	24.45	0.278	33.01	-8.57
	50 MHz	π/2 BPSK	2521.0	-0.40	1 / 66	28.45	28.05	0.638	33.01
2593.0			-0.40	1 / 1	28.69	28.29	0.675	33.01	-4.72
2665.0			-0.40	1 / 1	28.59	28.19	0.659	33.01	-4.82
QPSK		2521.0	-0.40	1 / 66	28.18	27.78	0.600	33.01	-5.23
		2593.0	-0.40	1 / 66	28.58	28.18	0.658	33.01	-4.83
		2665.0	-0.40	1 / 66	28.70	28.30	0.676	33.01	-4.71
16-QAM		2525.0	-0.40	1 / 66	28.39	27.99	0.630	33.01	-5.02
64-QAM		2525.0	-0.40	1 / 66	26.92	26.52	0.448	33.01	-6.49
256-QAM		2593.0	-0.40	1 / 66	25.12	24.72	0.296	33.01	-8.29
60 MHz		π/2 BPSK	2526.0	-0.40	1 / 81	28.33	27.93	0.621	33.01
	2593.0		-0.40	1 / 81	28.70	28.30	0.676	33.01	-4.71
	2660.0		-0.40	1 / 1	28.54	28.14	0.652	33.01	-4.87
	QPSK	2526.0	-0.40	1 / 81	27.97	27.57	0.572	33.01	-5.44
		2593.0	-0.40	1 / 1	28.34	27.94	0.623	33.01	-5.07
		2660.0	-0.40	1 / 1	28.42	28.02	0.633	33.01	-4.99
	16-QAM	2660.0	-0.40	1 / 1	28.38	27.98	0.629	33.01	-5.03
	64-QAM	2660.0	-0.40	1 / 81	26.70	26.30	0.427	33.01	-6.71
	256-QAM	2530.0	-0.40	1 / 81	24.57	24.17	0.261	33.01	-8.84
	70 MHz	π/2 BPSK	2531.0	-0.40	1 / 90	28.38	27.98	0.628	33.01
2593.0			-0.40	1 / 1	28.67	28.27	0.672	33.01	-4.74
2655.0			-0.40	1 / 1	28.68	28.28	0.673	33.01	-4.73
QPSK		2535.0	-0.40	1 / 187	28.31	27.91	0.618	33.01	-5.10
		2593.0	-0.40	1 / 1	28.47	28.07	0.642	33.01	-4.94
		2655.0	-0.40	1 / 1	28.70	28.30	0.676	33.01	-4.71
16-QAM		2655.0	-0.40	1 / 1	28.36	27.96	0.626	33.01	-5.05
64-QAM		2655.0	-0.40	1 / 1	26.91	26.51	0.448	33.01	-6.50
256-QAM		2655.0	-0.40	1 / 90	24.76	24.36	0.273	33.01	-8.65
80 MHz		π/2 BPSK	2536.0	-0.40	1 / 108	28.03	27.63	0.580	33.01
	2593.0		-0.40	1 / 108	28.03	27.63	0.579	33.01	-5.38
	2650.0		-0.40	1 / 1	28.20	27.80	0.603	33.01	-5.21
	QPSK	2536.0	-0.40	1 / 108	27.70	27.30	0.537	33.01	-5.71
		2593.0	-0.40	1 / 1	28.70	28.30	0.676	33.01	-4.71
		2650.0	-0.40	1 / 1	28.29	27.89	0.615	33.01	-5.12
	16-QAM	2650.0	-0.40	1 / 1	27.98	27.58	0.573	33.01	-5.43
	64-QAM	2650.0	-0.40	1 / 215	26.67	26.27	0.423	33.01	-6.74
	256-QAM	2593.0	-0.40	1 / 215	24.53	24.13	0.259	33.01	-8.88
	90 MHz	π/2 BPSK	2541.0	-0.40	1 / 122	28.38	27.98	0.628	33.01
2593.0			-0.40	1 / 243	28.54	28.14	0.651	33.01	-4.87
2645.0			-0.40	1 / 243	28.70	28.30	0.676	33.01	-4.71
QPSK		2541.0	-0.40	1 / 122	27.79	27.39	0.548	33.01	-5.62
		2593.0	-0.40	1 / 1	28.67	28.27	0.672	33.01	-4.74
		2645.0	-0.40	1 / 1	28.53	28.13	0.650	33.01	-4.88
16-QAM		2593.0	-0.40	1 / 1	28.27	27.87	0.612	33.01	-5.14
64-QAM		2593.0	-0.40	1 / 1	27.01	26.61	0.458	33.01	-6.40
256-QAM		2645.0	-0.40	1 / 122	24.82	24.42	0.277	33.01	-8.59
100 MHz		π/2 BPSK	2546.0	-0.40	1 / 271	28.43	28.03	0.635	33.01
	2593.0		-0.40	1 / 271	28.46	28.06	0.640	33.01	-4.95
	2640.0		-0.40	1 / 271	28.56	28.16	0.655	33.01	-4.85
	QPSK	2546.0	-0.40	1 / 136	27.71	27.31	0.538	33.01	-5.70
		2593.0	-0.40	1 / 271	28.70	28.30	0.676	33.01	-4.71
		2640.0	-0.40	1 / 136	28.63	28.23	0.665	33.01	-4.78
	16-QAM	2593.0	-0.40	1 / 1	28.15	27.75	0.596	33.01	-5.26
	64-QAM	2593.0	-0.40	1 / 1	26.95	26.55	0.452	33.01	-6.46
	256-QAM	2640.0	-0.40	1 / 136	24.80	24.40	0.275	33.01	-8.61

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

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device
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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	2510.0	-0.40	1 / 25	25.20	24.80	0.302	33.01	-8.21
		2593.0	-0.40	1 / 25	25.25	24.85	0.306	33.01	-8.16
		2680.0	-0.40	1 / 1	25.59	25.19	0.331	33.01	-7.82
	QPSK	2510.0	-0.40	1 / 25	25.59	25.19	0.330	33.01	-7.82
		2593.0	-0.40	1 / 25	25.46	25.06	0.321	33.01	-7.95
		2680.0	-0.40	1 / 1	25.70	25.30	0.339	33.01	-7.71
		16-QAM	2680.0	-0.40	1 / 1	24.98	24.58	0.287	33.01
	64-QAM	2510.0	-0.40	1 / 49	23.08	22.68	0.185	33.01	-10.33
	256-QAM	2510.0	-0.40	1 / 25	21.10	20.70	0.117	33.01	-12.31
	30 MHz	π/2 BPSK	2515.0	-0.40	1 / 39	25.37	24.97	0.314	33.01
2593.0			-0.40	1 / 1	25.41	25.01	0.317	33.01	-8.00
2675.0			-0.40	1 / 39	25.67	25.27	0.337	33.01	-7.74
QPSK		2515.0	-0.40	1 / 39	25.47	25.07	0.322	33.01	-7.94
		2593.0	-0.40	1 / 1	25.57	25.17	0.329	33.01	-7.84
		2675.0	-0.40	1 / 39	25.70	25.30	0.339	33.01	-7.71
		16-QAM	2593.0	-0.40	1 / 1	24.61	24.21	0.264	33.01
64-QAM		2675.0	-0.40	1 / 39	23.49	23.09	0.204	33.01	-9.92
256-QAM		2675.0	-0.40	1 / 1	21.19	20.79	0.120	33.01	-12.22
40 MHz		π/2 BPSK	2520.0	-0.40	1 / 53	25.28	24.88	0.308	33.01
	2593.0		-0.40	1 / 53	25.54	25.14	0.327	33.01	-7.87
	2670.0		-0.40	1 / 1	25.70	25.30	0.339	33.01	-7.71
	QPSK	2520.0	-0.40	1 / 53	25.65	25.25	0.335	33.01	-7.76
		2593.0	-0.40	1 / 1	25.54	25.14	0.327	33.01	-7.87
		2670.0	-0.40	1 / 1	25.45	25.05	0.320	33.01	-7.96
		16-QAM	2670.0	-0.40	1 / 1	25.01	24.61	0.289	33.01
	64-QAM	2520.0	-0.40	1 / 104	23.30	22.90	0.195	33.01	-10.11
	256-QAM	2670.0	-0.40	1 / 1	21.19	20.79	0.120	33.01	-12.22
	50 MHz	π/2 BPSK	2525.0	-0.40	1 / 66	25.54	25.14	0.327	33.01
2593.0			-0.40	1 / 66	25.29	24.89	0.308	33.01	-8.12
2665.0			-0.40	1 / 1	25.70	25.30	0.339	33.01	-7.71
QPSK		2525.0	-0.40	1 / 66	24.96	24.56	0.286	33.01	-8.45
		2593.0	-0.40	1 / 66	25.39	24.99	0.315	33.01	-8.02
		2665.0	-0.40	1 / 66	25.52	25.12	0.325	33.01	-7.89
		16-QAM	2665.0	-0.40	1 / 1	24.88	24.48	0.281	33.01
64-QAM		2665.0	-0.40	1 / 1	23.05	22.65	0.184	33.01	-10.36
256-QAM		2665.0	-0.40	1 / 66	20.90	20.50	0.112	33.01	-12.51
60 MHz		π/2 BPSK	2530.0	-0.40	1 / 81	25.70	25.30	0.339	33.01
	2593.0		-0.40	1 / 1	25.65	25.25	0.335	33.01	-7.76
	2660.0		-0.40	1 / 81	25.43	25.03	0.318	33.01	-7.99
	QPSK	2530.0	-0.40	1 / 81	25.43	25.03	0.318	33.01	-7.98
		2593.0	-0.40	1 / 1	25.60	25.20	0.331	33.01	-7.81
		2660.0	-0.40	1 / 1	25.51	25.11	0.325	33.01	-7.90
		16-QAM	2593.0	-0.40	1 / 160	24.74	24.34	0.271	33.01
	64-QAM	2660.0	-0.40	1 / 1	23.17	22.77	0.189	33.01	-10.24
	256-QAM	2660.0	-0.40	1 / 1	21.22	20.82	0.121	33.01	-12.19
	70 MHz	π/2 BPSK	2535.0	-0.40	1 / 187	25.63	25.23	0.334	33.01
2593.0			-0.40	1 / 1	25.55	25.15	0.327	33.01	-7.86
2655.0			-0.40	1 / 1	25.70	25.30	0.339	33.01	-7.71
QPSK		2535.0	-0.40	1 / 187	25.69	25.29	0.338	33.01	-7.72
		2593.0	-0.40	1 / 1	25.65	25.25	0.335	33.01	-7.76
		2655.0	-0.40	1 / 1	25.62	25.22	0.333	33.01	-7.79
		16-QAM	2655.0	-0.40	1 / 1	24.75	24.35	0.272	33.01
64-QAM		2535.0	-0.40	1 / 187	23.24	22.84	0.192	33.01	-10.17
256-QAM		2593.0	-0.40	1 / 1	21.16	20.76	0.119	33.01	-12.25
80 MHz		π/2 BPSK	2540.0	-0.40	1 / 215	25.04	24.64	0.291	33.01
	2593.0		-0.40	1 / 1	25.33	24.93	0.311	33.01	-8.08
	2650.0		-0.40	1 / 108	25.40	25.00	0.316	33.01	-8.01
	QPSK	2540.0	-0.40	1 / 215	24.74	24.34	0.272	33.01	-8.67
		2593.0	-0.40	1 / 1	25.70	25.30	0.339	33.01	-7.71
		2650.0	-0.40	1 / 1	25.36	24.96	0.313	33.01	-8.05
		16-QAM	2650.0	-0.40	1 / 1	24.56	24.16	0.261	33.01
	64-QAM	2540.0	-0.40	1 / 215	22.86	22.46	0.176	33.01	-10.56
	256-QAM	2650.0	-0.40	1 / 215	20.91	20.51	0.112	33.01	-12.50
	90 MHz	π/2 BPSK	2545.0	-0.40	1 / 243	25.15	24.75	0.299	33.01
2593.0			-0.40	1 / 243	25.50	25.10	0.323	33.01	-7.91
2645.0			-0.40	1 / 122	25.56	25.16	0.328	33.01	-7.85
QPSK		2545.0	-0.40	1 / 243	25.70	25.30	0.339	33.01	-7.71
		2593.0	-0.40	1 / 1	25.45	25.05	0.320	33.01	-7.96
		2645.0	-0.40	1 / 122	25.48	25.08	0.322	33.01	-7.93
		16-QAM	2645.0	-0.40	1 / 122	25.07	24.67	0.293	33.01
64-QAM		2593.0	-0.40	1 / 243	23.11	22.71	0.186	33.01	-10.31
256-QAM		2593.0	-0.40	1 / 1	21.25	20.85	0.122	33.01	-12.16
100 MHz		π/2 BPSK	2550.0	-0.40	1 / 1	25.55	25.15	0.327	33.01
	2593.0		-0.40	1 / 271	25.59	25.19	0.330	33.01	-7.82
	2640.0		-0.40	1 / 271	25.69	25.29	0.338	33.01	-7.72
	QPSK	2550.0	-0.40	1 / 1	25.50	25.10	0.324	33.01	-7.91
		2593.0	-0.40	1 / 271	25.14	24.74	0.298	33.01	-8.27
		2640.0	-0.40	1 / 1	25.11	24.71	0.296	33.01	-8.30
		16-QAM	2550.0	-0.40	1 / 271	24.24	23.84	0.242	33.01
	64-QAM	2640.0	-0.40	1 / 271	23.35	22.95	0.197	33.01	-10.06
	256-QAM	2550.0	-0.40	1 / 271	24.67	24.27	0.268	33.01	-8.74

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

FCC ID: BCGA2435		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	22.12	-0.30	21.82	0.152	33.01	-11.19
				21100	2535.0	1	99		21298	2554.8	1	0	22.20	-0.30	21.90	0.155	33.01	-11.11
				21350	2560.0	1	0		21152	2540.2	1	99	22.15	-0.30	21.85	0.153	33.01	-11.16
			16-QAM	21100	2535	100	0	QPSK	21298	2554.8	100	0	20.77	-0.30	20.47	0.111	33.01	-12.54
				21100	2535	100	0	16-QAM	21298	2554.8	100	0	19.89	-0.30	19.59	0.091	33.01	-13.42
				21100	2535	100	0	64-QAM	21298	2554.8	100	0	19.76	-0.30	19.46	0.088	33.01	-13.55
				21100	2535	100	0	256-QAM	21298	2554.8	100	0	17.73	-0.30	17.43	0.055	33.01	-15.58

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	28.52	-0.40	28.12	0.649	33.01	-4.89
				40620	2593.0	1	99		40818	2612.8	1	0	28.66	-0.40	28.26	0.670	33.01	-4.75
				41490	2680.0	1	0		41292	2660.2	1	99	28.61	-0.40	28.21	0.662	33.01	-4.80
			16-QAM	40620	2593	100	0	QPSK	40818	2612.8	100	0	28.86	-0.40	28.46	0.443	33.01	-6.55
				40620	2593	100	0	16-QAM	40818	2612.8	100	0	25.79	-0.40	25.39	0.346	33.01	-7.62
				40620	2593	100	0	64-QAM	40818	2612.8	100	0	25.84	-0.40	25.44	0.350	33.01	-7.57
				40620	2593	100	0	256-QAM	40818	2612.8	100	0	23.89	-0.40	23.49	0.223	33.01	-9.52

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	25.57	-0.40	25.17	0.329	33.01	-7.84
				40620	2593.0	1	99		40818	2612.8	1	0	25.47	-0.40	25.07	0.321	33.01	-7.94
				41490	2680.0	1	0		41292	2660.2	1	99	25.65	-0.40	25.25	0.335	33.01	-7.76
			16-QAM	41490	2680	100	0	QPSK	41292	2660.2	100	0	23.72	-0.40	23.32	0.215	33.01	-8.69
				41490	2680	100	0	16-QAM	41292	2660.2	100	0	22.82	-0.40	22.42	0.175	33.01	-10.59
				41490	2680	100	0	64-QAM	41292	2660.2	100	0	22.70	-0.40	22.30	0.170	33.01	-10.71
				41490	2680	100	0	256-QAM	41292	2660.2	100	0	20.78	-0.40	20.38	0.109	33.01	-12.63

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

FCC ID: BCGA2435	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	-3.80	1 / 0	25.00	21.20	0.132	23.98	-2.78
		2310.0	-3.80	1 / 12	25.03	21.23	0.133	23.98	-2.75
		2312.5	-3.80	1 / 12	25.20	21.40	0.138	23.98	-2.58
	16-QAM	2312.5	-3.80	1 / 12	24.41	20.61	0.115	23.98	-3.37
	64-QAM	2312.5	-3.80	1 / 12	23.39	19.59	0.091	23.98	-4.39
10 MHz	256-QAM	2307.5	-3.80	1 / 12	20.54	16.74	0.047	23.98	-7.24
	QPSK	2310.0	-3.80	1 / 25	25.20	21.40	0.138	23.98	-2.58
	16-QAM	2310.0	-3.80	1 / 25	24.52	20.72	0.118	23.98	-3.26
	64-QAM	2310.0	-3.80	1 / 25	23.68	19.88	0.097	23.98	-4.10
	256-QAM	2310.0	-3.80	1 / 25	20.39	16.59	0.046	23.98	-7.39

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

FCC ID: BCGA2435	 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	-2.70	1 / 12	25.16	22.46	0.176	33.01	-10.55
		2535.0	-2.70	1 / 12	25.17	22.47	0.177	33.01	-10.54
		2567.5	-2.70	1 / 24	25.20	22.50	0.178	33.01	-10.51
	16-QAM	2535.0	-2.70	1 / 12	24.46	21.76	0.150	33.01	-11.25
	64-QAM	2535.0	-2.70	1 / 0	23.45	20.75	0.119	33.01	-12.26
	256-QAM	2567.5	-2.70	1 / 12	20.48	17.78	0.060	33.01	-15.23
10 MHz	QPSK	2505.0	-2.70	1 / 49	25.20	22.50	0.178	33.01	-10.51
		2535.0	-2.70	1 / 25	25.11	22.41	0.174	33.01	-10.60
		2565.0	-2.70	1 / 25	24.98	22.28	0.169	33.01	-10.73
	16-QAM	2535.0	-2.70	1 / 25	24.38	21.68	0.147	33.01	-11.33
	64-QAM	2505.0	-2.70	1 / 49	23.52	20.82	0.121	33.01	-12.19
	256-QAM	2565.0	-2.70	1 / 25	20.75	18.05	0.064	33.01	-14.96
15 MHz	QPSK	2507.5	-2.70	1 / 74	25.16	22.46	0.176	33.01	-10.55
		2535.0	-2.70	1 / 74	25.20	22.50	0.178	33.01	-10.51
		2562.5	-2.70	1 / 74	24.92	22.22	0.167	33.01	-10.79
	16-QAM	2562.5	-2.70	1 / 74	24.55	21.85	0.153	33.01	-11.16
	64-QAM	2535.0	-2.70	1 / 37	23.46	20.76	0.119	33.01	-12.25
	256-QAM	2507.5	-2.70	1 / 37	20.44	17.74	0.059	33.01	-15.27
20 MHz	QPSK	2510.0	-2.70	1 / 99	25.16	22.46	0.176	33.01	-10.55
		2535.0	-2.70	1 / 99	25.20	22.50	0.178	33.01	-10.51
		2560.0	-2.70	1 / 99	25.09	22.39	0.173	33.01	-10.62
	16-QAM	2560.0	-2.70	1 / 50	24.67	21.97	0.157	33.01	-11.04
	64-QAM	2510.0	-2.70	1 / 50	23.50	20.80	0.120	33.01	-12.21
256-QAM	2560.0	-2.70	1 / 50	20.44	17.74	0.059	33.01	-15.27	

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

FCC ID: BCGA2435		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	-2.70	1 / 12	27.16	24.46	0.279	33.01	-8.55
		2593.0	-2.70	1 / 12	27.20	24.50	0.282	33.01	-8.51
		2687.5	-2.70	1 / 12	27.19	24.49	0.281	33.01	-8.52
	16-QAM	2687.5	-2.70	1 / 0	26.27	23.57	0.228	33.01	-9.44
	64-QAM	2687.5	-2.70	1 / 12	25.70	23.00	0.200	33.01	-10.01
	256-QAM	2687.5	-2.70	1 / 12	22.29	19.59	0.091	33.01	-13.42
10 MHz	QPSK	2501.0	-2.70	1 / 25	27.02	24.32	0.270	33.01	-8.69
		2593.0	-2.70	1 / 25	27.04	24.34	0.272	33.01	-8.67
		2685.0	-2.70	1 / 0	27.20	24.50	0.282	33.01	-8.51
	16-QAM	2685.0	-2.70	1 / 0	26.26	23.56	0.227	33.01	-9.45
	64-QAM	2685.0	-2.70	1 / 25	25.41	22.71	0.187	33.01	-10.30
	256-QAM	2685.0	-2.70	1 / 25	22.54	19.84	0.096	33.01	-13.17
15 MHz	QPSK	2503.5	-2.70	1 / 37	26.92	24.22	0.264	33.01	-8.79
		2593.0	-2.70	1 / 0	27.07	24.37	0.274	33.01	-8.64
		2682.5	-2.70	1 / 37	27.20	24.50	0.282	33.01	-8.51
	16-QAM	2682.5	-2.70	1 / 0	26.25	23.55	0.226	33.01	-9.46
	64-QAM	2682.5	-2.70	1 / 37	25.23	22.53	0.179	33.01	-10.48
	256-QAM	2682.5	-2.70	1 / 37	22.24	19.54	0.090	33.01	-13.47
20 MHz	QPSK	2506.0	-2.70	1 / 50	26.80	24.10	0.257	33.01	-8.91
		2593.0	-2.70	1 / 0	26.93	24.23	0.265	33.01	-8.78
		2680.0	-2.70	1 / 50	27.20	24.50	0.282	33.01	-8.51
	16-QAM	2680.0	-2.70	1 / 50	26.15	23.45	0.221	33.01	-9.56
	64-QAM	2680.0	-2.70	1 / 50	25.16	22.46	0.176	33.01	-10.55
	256-QAM	2680.0	-2.70	1 / 50	22.11	19.41	0.087	33.01	-13.60

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

FCC ID: BCGA2435	 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	-2.70	1 / 12	25.59	22.89	0.195	33.01	-10.12
		2593.0	-2.70	1 / 12	25.58	22.88	0.194	33.01	-10.13
		2687.5	-2.70	1 / 12	25.70	23.00	0.200	33.01	-10.01
	16-QAM	2687.5	-2.70	1 / 24	24.77	22.07	0.161	33.01	-10.94
	64-QAM	2687.5	-2.70	1 / 24	24.06	21.36	0.137	33.01	-11.65
	256-QAM	2687.5	-2.70	1 / 24	20.77	18.07	0.064	33.01	-14.94
10 MHz	QPSK	2501.0	-2.70	1 / 25	25.50	22.80	0.191	33.01	-10.21
		2593.0	-2.70	1 / 0	25.56	22.86	0.193	33.01	-10.15
		2685.0	-2.70	1 / 25	25.70	23.00	0.200	33.01	-10.01
	16-QAM	2685.0	-2.70	1 / 25	24.85	22.15	0.164	33.01	-10.86
	64-QAM	2685.0	-2.70	1 / 0	23.67	20.97	0.125	33.01	-12.04
	256-QAM	2685.0	-2.70	1 / 25	21.12	18.42	0.070	33.01	-14.59
15 MHz	QPSK	2503.5	-2.70	1 / 37	25.44	22.74	0.188	33.01	-10.27
		2593.0	-2.70	1 / 37	25.41	22.71	0.187	33.01	-10.30
		2682.5	-2.70	1 / 37	25.70	23.00	0.200	33.01	-10.01
	16-QAM	2682.5	-2.70	1 / 37	24.75	22.05	0.160	33.01	-10.96
	64-QAM	2682.5	-2.70	1 / 37	23.58	20.88	0.122	33.01	-12.13
	256-QAM	2682.5	-2.70	1 / 37	20.68	17.98	0.063	33.01	-15.03
20 MHz	QPSK	2506.0	-2.70	1 / 50	25.42	22.72	0.187	33.01	-10.29
		2593.0	-2.70	1 / 0	25.41	22.71	0.187	33.01	-10.30
		2680.0	-2.70	1 / 99	25.70	23.00	0.200	33.01	-10.01
	16-QAM	2593.0	-2.70	1 / 50	24.91	22.21	0.166	33.01	-10.80
	64-QAM	2680.0	-2.70	1 / 50	24.22	21.52	0.142	33.01	-11.49
	256-QAM	2680.0	-2.70	1 / 99	20.72	18.02	0.063	33.01	-14.99

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 205 of 274

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	-3.80	1 / 1	24.91	21.11	0.129	23.98	-2.87
		2310.0	-3.80	1 / 1	25.20	21.40	0.138	23.98	-2.58
		2312.5	-3.80	1 / 1	25.09	21.29	0.135	23.98	-2.69
	QPSK	2307.5	-3.80	1 / 23	24.95	21.15	0.130	23.98	-2.83
		2310.0	-3.80	1 / 12	24.99	21.19	0.132	23.98	-2.79
		2312.5	-3.80	1 / 23	24.98	21.18	0.131	23.98	-2.80
16-QAM	2307.5	-3.80	1 / 23	24.50	20.70	0.117	23.98	-3.28	
64-QAM	2307.5	-3.80	1 / 1	22.79	18.99	0.079	23.98	-4.99	
256-QAM	2310.0	-3.80	1 / 12	20.73	16.93	0.049	23.98	-7.05	
10 MHz	π/2 BPSK	2310.0	-3.80	1 / 25	24.90	21.10	0.129	23.98	-2.88
	QPSK	2310.0	-3.80	1 / 25	25.20	21.40	0.138	23.98	-2.58
	16-QAM	2310.0	-3.80	1 / 25	24.66	20.86	0.122	23.98	-3.11
	64-QAM	2310.0	-3.80	1 / 50	22.78	18.98	0.079	23.98	-5.00
	256-QAM	2310.0	-3.80	1 / 25	20.86	17.06	0.051	23.98	-6.92

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 206 of 274

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	-2.70	1 / 23	25.16	22.46	0.176	33.01	-10.55
		2535.0	-2.70	1 / 23	25.20	22.50	0.178	33.01	-10.51
		2567.5	-2.70	1 / 12	25.06	22.36	0.172	33.01	-10.65
	QPSK	2502.5	-2.70	1 / 23	25.18	22.48	0.177	33.01	-10.53
		2535.0	-2.70	1 / 23	25.10	22.40	0.174	33.01	-10.61
		2567.5	-2.70	1 / 1	25.11	22.41	0.174	33.01	-10.60
	16-QAM	2535.0	-2.70	1 / 12	24.52	21.82	0.152	33.01	-11.19
64-QAM	2535.0	-2.70	1 / 12	23.08	20.38	0.109	33.01	-12.63	
256-QAM	2567.5	-2.70	1 / 23	20.80	18.10	0.065	33.01	-14.91	
10 MHz	π/2 BPSK	2505.0	-2.70	1 / 1	24.86	22.16	0.165	33.01	-10.85
		2535.0	-2.70	1 / 25	25.20	22.50	0.178	33.01	-10.51
		2565.0	-2.70	1 / 1	24.79	22.09	0.162	33.01	-10.92
	QPSK	2505.0	-2.70	1 / 1	24.70	22.00	0.158	33.01	-11.01
		2535.0	-2.70	1 / 50	24.80	22.10	0.162	33.01	-10.91
		2565.0	-2.70	1 / 50	24.81	22.11	0.163	33.01	-10.90
	16-QAM	2505.0	-2.70	1 / 25	24.18	21.48	0.141	33.01	-11.53
64-QAM	2535.0	-2.70	1 / 50	23.19	20.49	0.112	33.01	-12.52	
256-QAM	2505.0	-2.70	1 / 1	20.80	18.10	0.065	33.01	-14.91	
15 MHz	π/2 BPSK	2507.5	-2.70	1 / 37	25.20	22.50	0.178	33.01	-10.51
		2535.0	-2.70	1 / 1	25.04	22.34	0.172	33.01	-10.67
		2562.5	-2.70	1 / 73	24.87	22.17	0.165	33.01	-10.84
	QPSK	2507.5	-2.70	1 / 37	24.90	22.20	0.166	33.01	-10.81
		2535.0	-2.70	1 / 1	25.04	22.34	0.172	33.01	-10.67
		2562.5	-2.70	1 / 73	24.96	22.26	0.168	33.01	-10.75
	16-QAM	2507.5	-2.70	1 / 73	24.51	21.81	0.152	33.01	-11.20
64-QAM	2535.0	-2.70	1 / 1	23.01	20.31	0.107	33.01	-12.70	
256-QAM	2562.5	-2.70	1 / 73	20.33	17.63	0.058	33.01	-15.38	
20 MHz	π/2 BPSK	2510.0	-2.70	1 / 1	25.01	22.31	0.170	33.01	-10.70
		2535.0	-2.70	1 / 1	25.20	22.50	0.178	33.01	-10.51
		2560.0	-2.70	1 / 50	24.77	22.07	0.161	33.01	-10.95
	QPSK	2510.0	-2.70	1 / 1	24.84	22.14	0.164	33.01	-10.87
		2535.0	-2.70	1 / 98	24.92	22.22	0.167	33.01	-10.79
		2560.0	-2.70	1 / 1	24.96	22.26	0.168	33.01	-10.75
	16-QAM	2535.0	-2.70	1 / 50	24.27	21.57	0.143	33.01	-11.44
64-QAM	2535.0	-2.70	1 / 98	22.68	19.98	0.099	33.01	-13.03	
256-QAM	2535.0	-2.70	1 / 50	20.64	17.94	0.062	33.01	-15.07	
25 MHz	π/2 BPSK	2512.5	-2.70	1 / 131	25.17	22.47	0.177	33.01	-10.54
		2535.0	-2.70	1 / 1	25.18	22.48	0.177	33.01	-10.53
		2557.5	-2.70	1 / 1	24.94	22.24	0.167	33.01	-10.77
	QPSK	2512.5	-2.70	1 / 1	25.19	22.49	0.177	33.01	-10.52
		2535.0	-2.70	1 / 131	25.20	22.50	0.178	33.01	-10.51
		2557.5	-2.70	1 / 131	25.00	22.30	0.170	33.01	-10.71
	16-QAM	2557.5	-2.70	1 / 1	24.56	21.86	0.154	33.01	-11.15
64-QAM	2557.5	-2.70	1 / 131	23.03	20.33	0.108	33.01	-12.68	
256-QAM	2512.5	-2.70	1 / 66	20.73	18.03	0.064	33.01	-14.98	
30 MHz	π/2 BPSK	2515.0	-2.70	1 / 1	24.39	21.69	0.148	33.01	-11.32
		2535.0	-2.70	1 / 1	24.36	21.66	0.147	33.01	-11.35
		2555.0	-2.70	1 / 1	25.20	22.50	0.178	33.01	-10.51
	QPSK	2515.0	-2.70	1 / 158	24.55	21.85	0.153	33.01	-11.16
		2535.0	-2.70	1 / 80	24.65	21.95	0.157	33.01	-11.06
		2555.0	-2.70	1 / 1	24.85	22.15	0.164	33.01	-10.86
	16-QAM	2515.0	-2.70	1 / 1	24.13	21.43	0.139	33.01	-11.58
64-QAM	2515.0	-2.70	1 / 158	22.36	19.66	0.092	33.01	-13.35	
256-QAM	2555.0	-2.70	1 / 158	20.16	17.46	0.056	33.01	-15.55	
40 MHz	π/2 BPSK	2520.0	-2.70	1 / 108	25.17	22.47	0.177	33.01	-10.54
		2535.0	-2.70	1 / 108	24.51	21.81	0.152	33.01	-11.20
		2550.0	-2.70	1 / 1	24.95	22.25	0.168	33.01	-10.76
	QPSK	2520.0	-2.70	1 / 108	24.90	22.20	0.166	33.01	-10.81
		2535.0	-2.70	1 / 214	24.82	22.12	0.163	33.01	-10.89
		2550.0	-2.70	1 / 214	24.97	22.27	0.168	33.01	-10.74
	16-QAM	2520.0	-2.70	1 / 214	24.28	21.58	0.144	33.01	-11.43
64-QAM	2550.0	-2.70	1 / 1	22.89	20.19	0.104	33.01	-12.82	
256-QAM	2550.0	-2.70	1 / 1	20.77	18.07	0.064	33.01	-14.94	

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

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device
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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	-2.70	1 / 25	26.31	23.61	0.230	33.01	-9.40
		2593.0	-2.70	1 / 49	26.81	24.11	0.258	33.01	-8.90
		2680.0	-2.70	1 / 49	27.07	24.37	0.274	33.01	-8.64
	QPSK	2506.0	-2.70	1 / 25	25.86	23.16	0.207	33.01	-9.85
		2593.0	-2.70	1 / 25	26.90	24.20	0.263	33.01	-8.81
		2680.0	-2.70	1 / 25	27.08	24.38	0.274	33.01	-8.64
	16-QAM	2680.0	-2.70	1 / 49	26.34	23.64	0.231	33.01	-9.37
	64-QAM	2680.0	-2.70	1 / 25	24.78	22.08	0.162	33.01	-10.93
	256-QAM	2680.0	-2.70	1 / 49	22.45	19.75	0.094	33.01	-13.26
30 MHz	π/2 BPSK	2511.0	-2.70	1 / 76	26.62	23.92	0.247	33.01	-9.09
		2593.0	-2.70	1 / 76	27.17	24.47	0.280	33.01	-8.54
		2675.0	-2.70	1 / 76	27.07	24.37	0.274	33.01	-8.64
	QPSK	2511.0	-2.70	1 / 76	26.10	23.40	0.219	33.01	-9.61
		2593.0	-2.70	1 / 39	27.13	24.43	0.278	33.01	-8.58
		2675.0	-2.70	1 / 76	27.04	24.34	0.272	33.01	-8.67
	16-QAM	2675.0	-2.70	1 / 39	26.57	23.87	0.244	33.01	-9.15
	64-QAM	2593.0	-2.70	1 / 76	24.94	22.24	0.168	33.01	-10.77
	256-QAM	2675.0	-2.70	1 / 76	22.76	20.06	0.102	33.01	-12.95
40 MHz	π/2 BPSK	2516.0	-2.70	1 / 53	26.49	23.79	0.239	33.01	-9.22
		2593.0	-2.70	1 / 104	27.20	24.50	0.282	33.01	-8.51
		2670.0	-2.70	1 / 53	26.94	24.24	0.265	33.01	-8.77
	QPSK	2516.0	-2.70	1 / 53	25.89	23.19	0.208	33.01	-9.82
		2593.0	-2.70	1 / 53	26.78	24.08	0.256	33.01	-8.93
		2670.0	-2.70	1 / 53	27.19	24.49	0.281	33.01	-8.52
	16-QAM	2670.0	-2.70	1 / 53	26.60	23.90	0.245	33.01	-9.11
	64-QAM	2593.0	-2.70	1 / 53	24.72	22.02	0.159	33.01	-10.99
	256-QAM	2593.0	-2.70	1 / 53	22.59	19.89	0.097	33.01	-13.13
50 MHz	π/2 BPSK	2521.0	-2.70	1 / 131	26.37	23.67	0.233	33.01	-9.34
		2593.0	-2.70	1 / 66	27.20	24.50	0.282	33.01	-8.51
		2665.0	-2.70	1 / 66	26.75	24.05	0.254	33.01	-8.96
	QPSK	2521.0	-2.70	1 / 66	25.24	22.54	0.179	33.01	-10.47
		2593.0	-2.70	1 / 66	26.63	23.93	0.247	33.01	-9.08
		2665.0	-2.70	1 / 66	26.02	23.32	0.215	33.01	-9.69
	16-QAM	2521.0	-2.70	1 / 66	24.74	22.04	0.160	33.01	-10.97
	64-QAM	2593.0	-2.70	1 / 66	24.39	21.69	0.148	33.01	-11.32
	256-QAM	2665.0	-2.70	1 / 66	22.42	19.72	0.094	33.01	-13.29
60 MHz	π/2 BPSK	2526.0	-2.70	1 / 160	26.48	23.78	0.239	33.01	-9.23
		2593.0	-2.70	1 / 81	26.85	24.15	0.260	33.01	-8.86
		2660.0	-2.70	1 / 1	27.20	24.50	0.282	33.01	-8.51
	QPSK	2526.0	-2.70	1 / 81	25.43	22.73	0.188	33.01	-10.28
		2593.0	-2.70	1 / 81	26.47	23.77	0.238	33.01	-9.24
		2660.0	-2.70	1 / 1	26.41	23.71	0.235	33.01	-9.30
	16-QAM	2593.0	-2.70	1 / 81	26.13	23.43	0.220	33.01	-9.58
	64-QAM	2593.0	-2.70	1 / 81	24.67	21.97	0.157	33.01	-11.04
	256-QAM	2660.0	-2.70	1 / 81	22.69	19.99	0.100	33.01	-13.02
70 MHz	π/2 BPSK	2531.0	-2.70	1 / 1	26.59	23.89	0.245	33.01	-9.12
		2593.0	-2.70	1 / 1	26.98	24.28	0.268	33.01	-8.73
		2655.0	-2.70	1 / 1	27.20	24.50	0.282	33.01	-8.51
	QPSK	2531.0	-2.70	1 / 90	25.43	22.73	0.187	33.01	-10.28
		2593.0	-2.70	1 / 90	26.79	24.09	0.257	33.01	-8.92
		2655.0	-2.70	1 / 1	26.68	23.98	0.250	33.01	-9.03
	16-QAM	2655.0	-2.70	1 / 1	26.23	23.53	0.225	33.01	-9.48
	64-QAM	2655.0	-2.70	1 / 1	24.86	22.16	0.164	33.01	-10.85
	256-QAM	2655.0	-2.70	1 / 1	22.84	20.14	0.103	33.01	-12.87
80 MHz	π/2 BPSK	2536.0	-2.70	1 / 108	26.52	23.82	0.241	33.01	-9.19
		2593.0	-2.70	1 / 215	27.08	24.38	0.274	33.01	-8.63
		2650.0	-2.70	1 / 1	27.20	24.50	0.282	33.01	-8.51
	QPSK	2536.0	-2.70	1 / 108	25.21	22.51	0.178	33.01	-10.50
		2593.0	-2.70	1 / 108	27.01	24.31	0.270	33.01	-8.70
		2650.0	-2.70	1 / 108	26.86	24.16	0.261	33.01	-8.85
	16-QAM	2593.0	-2.70	1 / 108	26.36	23.66	0.232	33.01	-9.36
	64-QAM	2593.0	-2.70	1 / 108	24.83	22.13	0.163	33.01	-10.88
	256-QAM	2593.0	-2.70	1 / 108	22.83	20.13	0.103	33.01	-12.88
90 MHz	π/2 BPSK	2541.0	-2.70	1 / 243	26.57	23.87	0.244	33.01	-9.14
		2593.0	-2.70	1 / 122	27.08	24.38	0.274	33.01	-8.63
		2645.0	-2.70	1 / 122	27.07	24.37	0.273	33.01	-8.64
	QPSK	2541.0	-2.70	1 / 122	25.25	22.55	0.180	33.01	-10.46
		2593.0	-2.70	1 / 122	26.63	23.93	0.247	33.01	-9.08
		2645.0	-2.70	1 / 1	27.20	24.50	0.282	33.01	-8.51
	16-QAM	2593.0	-2.70	1 / 122	26.28	23.58	0.228	33.01	-9.43
	64-QAM	2645.0	-2.70	1 / 1	24.72	22.02	0.159	33.01	-10.99
	256-QAM	2593.0	-2.70	1 / 122	22.75	20.05	0.101	33.01	-12.96
100 MHz	π/2 BPSK	2546.0	-2.70	1 / 271	26.61	23.91	0.246	33.01	-9.10
		2593.0	-2.70	1 / 136	26.93	24.23	0.265	33.01	-8.78
		2640.0	-2.70	1 / 271	27.02	24.32	0.270	33.01	-8.69
	QPSK	2546.0	-2.70	1 / 271	25.18	22.48	0.177	33.01	-10.53
		2593.0	-2.70	1 / 136	26.65	23.95	0.248	33.01	-9.06
		2640.0	-2.70	1 / 1	27.20	24.50	0.282	33.01	-8.51
	16-QAM	2593.0	-2.70	1 / 136	26.19	23.49	0.223	33.01	-9.52
	64-QAM	2640.0	-2.70	1 / 1	24.76	22.06	0.161	33.01	-10.95
	256-QAM	2593.0	-2.70	1 / 136	22.49	19.79	0.095	33.01	-13.22

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

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device
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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	2510.0	-2.70	1 / 49	25.37	22.67	0.185	33.01	-10.34	
		2593.0	-2.70	1 / 25	25.17	22.47	0.177	33.01	-10.54	
		2680.0	-2.70	1 / 49	25.63	22.93	0.196	33.01	-10.08	
	QPSK	2510.0	-2.70	1 / 49	25.11	22.41	0.174	33.01	-10.60	
		2593.0	-2.70	1 / 49	25.70	23.00	0.200	33.01	-10.01	
		2680.0	-2.70	1 / 49	25.15	22.45	0.176	33.01	-10.56	
		16-QAM	2593.0	-2.70	1 / 49	24.52	21.82	0.152	33.01	-11.19
		64-QAM	2680.0	-2.70	1 / 49	23.06	20.36	0.109	33.01	-12.65
		256-QAM	2510.0	-2.70	1 / 49	20.66	17.96	0.063	33.01	-15.05
	30 MHz	π/2 BPSK	2515.0	-2.70	1 / 39	25.12	22.42	0.174	33.01	-10.59
			2593.0	-2.70	1 / 39	25.22	22.52	0.179	33.01	-10.49
			2675.0	-2.70	1 / 1	25.54	22.84	0.192	33.01	-10.17
QPSK		2515.0	-2.70	1 / 76	25.28	22.58	0.181	33.01	-10.43	
		2593.0	-2.70	1 / 39	25.32	22.62	0.183	33.01	-10.39	
		2675.0	-2.70	1 / 76	25.70	23.00	0.200	33.01	-10.01	
16-QAM		2593.0	-2.70	1 / 76	24.81	22.11	0.163	33.01	-10.90	
64-QAM		2593.0	-2.70	1 / 39	23.10	20.40	0.110	33.01	-12.61	
256-QAM		2675.0	-2.70	1 / 1	21.17	18.47	0.070	33.01	-14.54	
40 MHz		π/2 BPSK	2520.0	-2.70	1 / 53	25.57	22.87	0.194	33.01	-10.14
			2593.0	-2.70	1 / 39	25.28	22.58	0.181	33.01	-10.43
			2670.0	-2.70	1 / 104	25.70	23.00	0.200	33.01	-10.01
	QPSK	2520.0	-2.70	1 / 53	25.33	22.63	0.183	33.01	-10.38	
		2593.0	-2.70	1 / 1	25.45	22.75	0.188	33.01	-10.26	
		2670.0	-2.70	1 / 39	25.42	22.72	0.187	33.01	-10.29	
	16-QAM	2670.0	-2.70	1 / 104	24.83	22.13	0.163	33.01	-10.88	
	64-QAM	2670.0	-2.70	1 / 1	23.13	20.43	0.110	33.01	-12.58	
	256-QAM	2670.0	-2.70	1 / 104	21.30	18.60	0.072	33.01	-14.41	
	50 MHz	π/2 BPSK	2525.0	-2.70	1 / 131	25.70	23.00	0.200	33.01	-10.01
			2593.0	-2.70	1 / 131	25.53	22.83	0.192	33.01	-10.18
			2665.0	-2.70	1 / 1	25.58	22.88	0.194	33.01	-10.13
QPSK		2525.0	-2.70	1 / 131	25.32	22.62	0.183	33.01	-10.39	
		2593.0	-2.70	1 / 131	25.31	22.61	0.182	33.01	-10.40	
		2665.0	-2.70	1 / 1	25.46	22.76	0.189	33.01	-10.25	
16-QAM		2593.0	-2.70	1 / 1	24.94	22.24	0.168	33.01	-10.77	
64-QAM		2593.0	-2.70	1 / 1	23.08	20.38	0.109	33.01	-12.63	
256-QAM		2593.0	-2.70	1 / 66	20.96	18.26	0.067	33.01	-14.75	
60 MHz		π/2 BPSK	2530.0	-2.70	1 / 81	25.25	22.55	0.180	33.01	-10.46
			2593.0	-2.70	1 / 81	25.70	23.00	0.200	33.01	-10.01
			2660.0	-2.70	1 / 160	25.44	22.74	0.188	33.01	-10.27
	QPSK	2530.0	-2.70	1 / 81	25.46	22.76	0.189	33.01	-10.25	
		2593.0	-2.70	1 / 81	25.53	22.83	0.192	33.01	-10.18	
		2660.0	-2.70	1 / 81	25.36	22.66	0.184	33.01	-10.35	
	16-QAM	2593.0	-2.70	1 / 1	24.84	22.14	0.164	33.01	-10.87	
	64-QAM	2660.0	-2.70	1 / 160	23.07	20.37	0.109	33.01	-12.64	
	256-QAM	2593.0	-2.70	1 / 81	21.01	18.31	0.068	33.01	-14.70	
	70 MHz	π/2 BPSK	2535.0	-2.70	1 / 187	25.21	22.51	0.178	33.01	-10.50
			2593.0	-2.70	1 / 90	25.36	22.66	0.184	33.01	-10.35
			2655.0	-2.70	1 / 187	25.53	22.83	0.192	33.01	-10.18
QPSK		2535.0	-2.70	1 / 187	25.70	23.00	0.200	33.01	-10.01	
		2593.0	-2.70	1 / 187	25.70	23.00	0.200	33.01	-10.01	
		2655.0	-2.70	1 / 90	25.44	22.74	0.188	33.01	-10.27	
16-QAM		2593.0	-2.70	1 / 187	24.93	22.23	0.167	33.01	-10.78	
64-QAM		2655.0	-2.70	1 / 1	23.20	20.50	0.112	33.01	-12.51	
256-QAM		2593.0	-2.70	1 / 187	21.32	18.62	0.073	33.01	-14.39	
80 MHz		π/2 BPSK	2540.0	-2.70	1 / 215	25.26	22.56	0.180	33.01	-10.45
			2593.0	-2.70	1 / 108	25.54	22.84	0.192	33.01	-10.17
			2650.0	-2.70	1 / 108	25.63	22.93	0.196	33.01	-10.08
	QPSK	2540.0	-2.70	1 / 215	25.46	22.76	0.189	33.01	-10.25	
		2593.0	-2.70	1 / 215	25.69	22.99	0.199	33.01	-10.02	
		2650.0	-2.70	1 / 108	25.70	23.00	0.200	33.01	-10.01	
	16-QAM	2650.0	-2.70	1 / 108	24.83	22.13	0.163	33.01	-10.88	
	64-QAM	2650.0	-2.70	1 / 1	23.28	20.58	0.114	33.01	-12.43	
	256-QAM	2650.0	-2.70	1 / 215	21.20	18.50	0.071	33.01	-14.51	
	90 MHz	π/2 BPSK	2545.0	-2.70	1 / 243	25.02	22.32	0.170	33.01	-10.69
			2593.0	-2.70	1 / 1	25.66	22.96	0.198	33.01	-10.05
			2645.0	-2.70	1 / 122	25.62	22.92	0.196	33.01	-10.09
QPSK		2545.0	-2.70	1 / 243	24.85	22.15	0.164	33.01	-10.86	
		2593.0	-2.70	1 / 1	25.70	23.00	0.200	33.01	-10.01	
		2645.0	-2.70	1 / 122	25.66	22.96	0.198	33.01	-10.05	
16-QAM		2645.0	-2.70	1 / 1	24.92	22.22	0.167	33.01	-10.79	
64-QAM		2645.0	-2.70	1 / 122	23.42	20.72	0.118	33.01	-12.29	
256-QAM		2593.0	-2.70	1 / 1	21.04	18.34	0.068	33.01	-14.67	
100 MHz		π/2 BPSK	2550.0	-2.70	1 / 271	25.55	22.85	0.193	33.01	-10.16
			2593.0	-2.70	1 / 271	25.59	22.89	0.195	33.01	-10.12
			2640.0	-2.70	1 / 271	25.60	22.90	0.195	33.01	-10.11
	QPSK	2550.0	-2.70	1 / 1	25.50	22.80	0.191	33.01	-10.21	
		2593.0	-2.70	1 / 271	25.14	22.44	0.175	33.01	-10.57	
		2640.0	-2.70	1 / 1	25.37	22.67	0.185	33.01	-10.34	
	16-QAM	2550.0	-2.70	1 / 271	24.23	21.53	0.142	33.01	-11.48	
	64-QAM	2640.0	-2.70	1 / 271	23.49	20.79	0.120	33.01	-12.22	
	256-QAM	2550.0	-2.70	1 / 271	24.67	21.97	0.158	33.01	-11.04	

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

FCC ID: BCGA2435	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	25.13	-2.70	22.43	0.175	33.01	-10.58
				21100	2535.0	1	99		21298	2554.8	1	0	25.04	-2.70	22.34	0.171	33.01	-10.67
			21350	2560.0	1	0	21152	2540.2	1	99	25.04	-2.70	22.34	0.171	33.01	-10.67		
			QPSK	20850	2510	100	0	QPSK	21048	2529.8	100	0	23.36	-2.70	20.66	0.116	33.01	-12.35
			16-QAM	20850	2510	100	0	16-QAM	21048	2529.8	100	0	22.37	-2.70	19.67	0.093	33.01	-13.34
			64-QAM	20850	2510	100	0	64-QAM	21048	2529.8	100	0	22.24	-2.70	19.54	0.090	33.01	-13.47
256-QAM	20850	2510	100	0	256-QAM	21048	2529.8	100	0	20.21	-2.70	17.51	0.056	33.01	-15.50			

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	26.97	-2.70	24.27	0.267	33.01	-8.74
				40620	2593.0	1	99		40818	2612.8	1	0	26.92	-2.70	24.22	0.264	33.01	-8.79
			41490	2680.0	1	0	41292	2660.2	1	99	27.08	-2.70	24.38	0.274	33.01	-8.63		
			QPSK	41490	2680	100	0	QPSK	41292	2660.2	100	0	25.33	-2.70	22.63	0.183	33.01	-10.38
			16-QAM	41490	2680	100	0	16-QAM	41292	2660.2	100	0	24.37	-2.70	21.67	0.147	33.01	-11.34
			64-QAM	41490	2680	100	0	64-QAM	41292	2660.2	100	0	24.20	-2.70	21.50	0.141	33.01	-11.51
256-QAM	41490	2680	100	0	256-QAM	41292	2660.2	100	0	22.35	-2.70	19.65	0.092	33.01	-13.36			

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	25.60	-2.70	22.90	0.195	33.01	-10.11
				40620	2593.0	1	99		40818	2612.8	1	0	25.64	-2.70	22.94	0.197	33.01	-10.07
			41490	2680.0	1	0	41292	2660.2	1	99	25.46	-2.70	22.76	0.189	33.01	-10.25		
			QPSK	40620	2593	100	0	QPSK	40818	2612.8	100	0	23.71	-2.70	21.01	0.126	33.01	-12.00
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	22.79	-2.70	20.09	0.102	33.01	-12.92
			64-QAM	40620	2593	100	0	64-QAM	40818	2612.8	100	0	22.71	-2.70	20.01	0.100	33.01	-13.00
256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	20.73	-2.70	18.03	0.064	33.01	-14.98			

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

FCC ID: BCGA2435		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	0.70	1 / 12	22.03	22.73	0.187	23.98	-1.25
		2310.0	0.70	1 / 12	21.90	22.60	0.182	23.98	-1.38
		2312.5	0.70	1 / 12	22.20	22.90	0.195	23.98	-1.08
	16-QAM	2312.5	0.70	1 / 12	21.34	22.04	0.160	23.98	-1.94
	64-QAM	2310.0	0.70	1 / 12	20.52	21.22	0.132	23.98	-2.76
	256-QAM	2312.5	0.70	1 / 12	17.36	18.06	0.064	23.98	-5.92
10 MHz	QPSK	2310.0	0.70	1 / 25	22.20	22.90	0.195	23.98	-1.08
	16-QAM	2310.0	0.70	1 / 25	21.56	22.26	0.168	23.98	-1.72
	64-QAM	2310.0	0.70	1 / 25	20.66	21.36	0.137	23.98	-2.62
	256-QAM	2310.0	0.70	1 / 25	17.60	18.30	0.068	23.98	-5.68

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 211 of 274

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	22.16	22.16	0.164	33.01	-10.85
		2535.0	0.00	1 / 12	22.02	22.02	0.159	33.01	-10.99
		2567.5	0.00	1 / 12	22.20	22.20	0.166	33.01	-10.81
	16-QAM	2535.0	0.00	1 / 12	21.43	21.43	0.139	33.01	-11.58
	64-QAM	2502.5	0.00	1 / 12	20.44	20.44	0.111	33.01	-12.57
	256-QAM	2567.5	0.00	1 / 24	17.61	17.61	0.058	33.01	-15.40
10 MHz	QPSK	2505.0	0.00	1 / 25	22.20	22.20	0.166	33.01	-10.81
		2535.0	0.00	1 / 25	22.02	22.02	0.159	33.01	-10.99
		2565.0	0.00	1 / 25	22.06	22.06	0.161	33.01	-10.95
	16-QAM	2565.0	0.00	1 / 25	21.44	21.44	0.139	33.01	-11.57
	64-QAM	2565.0	0.00	1 / 49	20.69	20.69	0.117	33.01	-12.32
	256-QAM	2505.0	0.00	1 / 25	17.34	17.34	0.054	33.01	-15.67
15 MHz	QPSK	2507.5	0.00	1 / 37	22.20	22.20	0.166	33.01	-10.81
		2535.0	0.00	1 / 74	22.15	22.15	0.164	33.01	-10.86
		2562.5	0.00	1 / 74	22.03	22.03	0.160	33.01	-10.98
	16-QAM	2562.5	0.00	1 / 37	21.55	21.55	0.143	33.01	-11.46
	64-QAM	2562.5	0.00	1 / 74	20.33	20.33	0.108	33.01	-12.68
	256-QAM	2535.0	0.00	1 / 37	17.56	17.56	0.057	33.01	-15.45
20 MHz	QPSK	2510.0	0.00	1 / 99	22.05	22.05	0.160	33.01	-10.96
		2535.0	0.00	1 / 99	22.16	22.16	0.164	33.01	-10.85
		2560.0	0.00	1 / 99	22.20	22.20	0.166	33.01	-10.81
	16-QAM	2535.0	0.00	1 / 50	21.58	21.58	0.144	33.01	-11.43
	64-QAM	2560.0	0.00	1 / 50	20.54	20.54	0.113	33.01	-12.47
	256-QAM	2535.0	0.00	1 / 50	17.39	17.39	0.055	33.01	-15.62

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 212 of 274

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	-0.30	1 / 24	27.82	27.52	0.565	33.01	-5.49
		2593.0	-0.30	1 / 24	28.05	27.75	0.596	33.01	-5.26
		2687.5	-0.30	1 / 12	28.20	27.90	0.617	33.01	-5.11
	16-QAM	2498.5	-0.30	1 / 24	27.13	26.83	0.482	33.01	-6.18
	64-QAM	2593.0	-0.30	1 / 0	26.19	25.89	0.388	33.01	-7.12
	256-QAM	2593.0	-0.30	1 / 0	23.18	22.88	0.194	33.01	-10.13
10 MHz	QPSK	2501.0	-0.30	1 / 0	28.20	27.90	0.617	33.01	-5.11
		2593.0	-0.30	1 / 0	27.92	27.62	0.578	33.01	-5.39
		2685.0	-0.30	1 / 0	27.94	27.64	0.581	33.01	-5.37
	16-QAM	2593.0	-0.30	1 / 25	27.11	26.81	0.480	33.01	-6.20
	64-QAM	2501.0	-0.30	1 / 49	26.19	25.89	0.388	33.01	-7.12
	256-QAM	2593.0	-0.30	1 / 0	23.26	22.96	0.198	33.01	-10.05
15 MHz	QPSK	2503.5	-0.30	1 / 74	27.83	27.53	0.566	33.01	-5.48
		2593.0	-0.30	1 / 37	27.77	27.47	0.558	33.01	-5.54
		2682.5	-0.30	1 / 74	28.18	27.88	0.614	33.01	-5.13
	16-QAM	2593.0	-0.30	1 / 0	27.10	26.80	0.479	33.01	-6.21
	64-QAM	2503.5	-0.30	1 / 74	26.03	25.73	0.374	33.01	-7.28
	256-QAM	2503.5	-0.30	1 / 37	23.36	23.06	0.202	33.01	-9.95
20 MHz	QPSK	2506.0	-0.30	1 / 0	27.97	27.67	0.585	33.01	-5.34
		2593.0	-0.30	1 / 0	28.20	27.90	0.617	33.01	-5.11
		2680.0	-0.30	1 / 0	27.62	27.32	0.540	33.01	-5.69
	16-QAM	2593.0	-0.30	1 / 99	27.21	26.91	0.491	33.01	-6.10
	64-QAM	2680.0	-0.30	1 / 0	26.21	25.91	0.390	33.01	-7.10
	256-QAM	2506.0	-0.30	1 / 99	23.20	22.90	0.195	33.01	-10.11

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 213 of 274

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	-0.30	1 / 24	25.32	25.02	0.318	33.01	-7.99
		2593.0	-0.30	1 / 24	25.55	25.25	0.335	33.01	-7.76
		2687.5	-0.30	1 / 12	25.70	25.40	0.347	33.01	-7.61
	16-QAM	2498.5	-0.30	1 / 24	24.63	24.33	0.271	33.01	-8.68
	64-QAM	2593.0	-0.30	1 / 0	23.69	23.39	0.218	33.01	-9.62
256-QAM	2593.0	-0.30	1 / 0	20.68	20.38	0.109	33.01	-12.63	
10 MHz	QPSK	2501.0	-0.30	1 / 0	25.70	25.40	0.347	33.01	-7.61
		2593.0	-0.30	1 / 0	25.42	25.12	0.325	33.01	-7.89
		2685.0	-0.30	1 / 0	25.44	25.14	0.327	33.01	-7.87
	16-QAM	2593.0	-0.30	1 / 25	24.61	24.31	0.270	33.01	-8.70
	64-QAM	2501.0	-0.30	1 / 49	23.69	23.39	0.218	33.01	-9.62
256-QAM	2593.0	-0.30	1 / 0	20.76	20.46	0.111	33.01	-12.55	
15 MHz	QPSK	2503.5	-0.30	1 / 74	25.33	25.03	0.318	33.01	-7.98
		2593.0	-0.30	1 / 37	25.27	24.97	0.314	33.01	-8.04
		2682.5	-0.30	1 / 74	25.68	25.38	0.345	33.01	-7.63
	16-QAM	2593.0	-0.30	1 / 0	24.60	24.30	0.269	33.01	-8.71
	64-QAM	2503.5	-0.30	1 / 74	23.53	23.23	0.210	33.01	-9.78
256-QAM	2503.5	-0.30	1 / 37	20.86	20.56	0.114	33.01	-12.45	
20 MHz	QPSK	2506.0	-0.30	1 / 0	25.47	25.17	0.329	33.01	-7.84
		2593.0	-0.30	1 / 0	25.70	25.40	0.347	33.01	-7.61
		2680.0	-0.30	1 / 0	25.12	24.82	0.303	33.01	-8.19
	16-QAM	2593.0	-0.30	1 / 99	24.71	24.41	0.276	33.01	-8.60
	64-QAM	2680.0	-0.30	1 / 0	23.71	23.41	0.219	33.01	-9.60
256-QAM	2506.0	-0.30	1 / 99	20.70	20.40	0.110	33.01	-12.61	

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 214 of 274

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	0.70	1 / 12	22.04	22.74	0.188	23.98	-1.24
		2310.0	0.70	1 / 23	22.00	22.70	0.186	23.98	-1.28
		2312.5	0.70	1 / 23	21.97	22.67	0.185	23.98	-1.31
	QPSK	2307.5	0.70	1 / 12	22.20	22.90	0.195	23.98	-1.08
		2310.0	0.70	1 / 23	21.99	22.69	0.186	23.98	-1.29
		2312.5	0.70	1 / 1	22.14	22.84	0.192	23.98	-1.14
	16-QAM	2312.5	0.70	1 / 12	21.17	21.87	0.154	23.98	-2.11
64-QAM	2312.5	0.70	1 / 1	19.70	20.40	0.110	23.98	-3.58	
256-QAM	2307.5	0.70	1 / 12	17.83	18.53	0.071	23.98	-5.45	
10 MHz	π/2 BPSK	2310.0	0.70	1 / 1	22.20	22.90	0.195	23.98	-1.08
	QPSK	2310.0	0.70	1 / 1	22.02	22.72	0.187	23.98	-1.26
	16-QAM	2310.0	0.70	1 / 25	21.17	21.87	0.154	23.98	-2.11
	64-QAM	2310.0	0.70	1 / 50	19.72	20.42	0.110	23.98	-3.56
	256-QAM	2310.0	0.70	1 / 1	17.26	17.96	0.063	23.98	-6.02

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device	Page 215 of 274

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	0.00	1 / 12	21.96	21.96	0.157	33.01	-11.05
		2535.0	0.00	1 / 1	21.60	21.60	0.145	33.01	-11.41
		2567.5	0.00	1 / 23	21.91	21.91	0.155	33.01	-11.10
	QPSK	2502.5	0.00	1 / 23	22.20	22.20	0.166	33.01	-10.81
		2535.0	0.00	1 / 23	21.67	21.67	0.147	33.01	-11.34
		2567.5	0.00	1 / 23	21.81	21.81	0.152	33.01	-11.20
16-QAM	2502.5	0.00	1 / 12	20.95	20.95	0.124	33.01	-12.06	
64-QAM	2567.5	0.00	1 / 23	19.51	19.51	0.089	33.01	-13.50	
256-QAM	2502.5	0.00	1 / 23	17.45	17.45	0.056	33.01	-15.56	
10 MHz	π/2 BPSK	2505.0	0.00	1 / 50	22.16	22.16	0.165	33.01	-10.85
		2535.0	0.00	1 / 1	22.20	22.20	0.166	33.01	-10.81
		2565.0	0.00	1 / 50	22.07	22.07	0.161	33.01	-10.94
	QPSK	2505.0	0.00	1 / 1	22.10	22.10	0.162	33.01	-10.91
		2535.0	0.00	1 / 1	21.80	21.80	0.151	33.01	-11.21
		2565.0	0.00	1 / 25	21.96	21.96	0.157	33.01	-11.05
16-QAM	2505.0	0.00	1 / 50	21.31	21.31	0.135	33.01	-11.70	
64-QAM	2535.0	0.00	1 / 25	20.17	20.17	0.104	33.01	-12.84	
256-QAM	2565.0	0.00	1 / 50	17.69	17.69	0.059	33.01	-15.32	
15 MHz	π/2 BPSK	2507.5	0.00	1 / 73	22.03	22.03	0.160	33.01	-10.98
		2535.0	0.00	1 / 1	22.00	22.00	0.159	33.01	-11.01
		2562.5	0.00	1 / 37	21.80	21.80	0.151	33.01	-11.21
	QPSK	2507.5	0.00	1 / 37	22.20	22.20	0.166	33.01	-10.81
		2535.0	0.00	1 / 1	22.01	22.01	0.159	33.01	-11.00
		2562.5	0.00	1 / 73	22.11	22.11	0.162	33.01	-10.90
16-QAM	2507.5	0.00	1 / 37	21.45	21.45	0.140	33.01	-11.56	
64-QAM	2535.0	0.00	1 / 73	19.71	19.71	0.093	33.01	-13.30	
256-QAM	2562.5	0.00	1 / 1	17.76	17.76	0.060	33.01	-15.25	
20 MHz	π/2 BPSK	2510.0	0.00	1 / 1	22.07	22.07	0.161	33.01	-10.94
		2535.0	0.00	1 / 98	22.05	22.05	0.160	33.01	-10.96
		2560.0	0.00	1 / 50	22.07	22.07	0.161	33.01	-10.94
	QPSK	2510.0	0.00	1 / 1	22.20	22.20	0.166	33.01	-10.81
		2535.0	0.00	1 / 1	22.09	22.09	0.162	33.01	-10.92
		2560.0	0.00	1 / 1	21.94	21.94	0.156	33.01	-11.07
16-QAM	2535.0	0.00	1 / 1	21.39	21.39	0.138	33.01	-11.62	
64-QAM	2560.0	0.00	1 / 98	20.25	20.25	0.106	33.01	-12.76	
256-QAM	2535.0	0.00	1 / 1	17.84	17.84	0.061	33.01	-15.17	
25 MHz	π/2 BPSK	2512.5	0.00	1 / 1	22.18	22.18	0.165	33.01	-10.83
		2535.0	0.00	1 / 1	21.89	21.89	0.155	33.01	-11.12
		2557.5	0.00	1 / 66	21.83	21.83	0.152	33.01	-11.18
	QPSK	2512.5	0.00	1 / 66	22.14	22.14	0.164	33.01	-10.87
		2535.0	0.00	1 / 1	22.20	22.20	0.166	33.01	-10.81
		2557.5	0.00	1 / 1	22.05	22.05	0.160	33.01	-10.96
16-QAM	2557.5	0.00	1 / 1	21.57	21.57	0.143	33.01	-11.44	
64-QAM	2557.5	0.00	1 / 66	20.13	20.13	0.103	33.01	-12.88	
256-QAM	2512.5	0.00	1 / 1	17.94	17.94	0.062	33.01	-15.07	
30 MHz	π/2 BPSK	2515.0	0.00	1 / 1	22.05	22.05	0.160	33.01	-10.96
		2535.0	0.00	1 / 80	21.94	21.94	0.156	33.01	-11.07
		2555.0	0.00	1 / 1	21.99	21.99	0.158	33.01	-11.02
	QPSK	2515.0	0.00	1 / 158	22.02	22.02	0.159	33.01	-10.99
		2535.0	0.00	1 / 1	21.66	21.66	0.147	33.01	-11.35
		2555.0	0.00	1 / 1	22.20	22.20	0.166	33.01	-10.81
16-QAM	2515.0	0.00	1 / 1	21.52	21.52	0.142	33.01	-11.49	
64-QAM	2555.0	0.00	1 / 80	19.78	19.78	0.095	33.01	-13.23	
256-QAM	2515.0	0.00	1 / 1	17.62	17.62	0.058	33.01	-15.39	
40 MHz	π/2 BPSK	2520.0	0.00	1 / 108	21.95	21.95	0.157	33.01	-11.06
		2535.0	0.00	1 / 1	22.11	22.11	0.163	33.01	-10.90
		2550.0	0.00	1 / 108	21.98	21.98	0.158	33.01	-11.03
	QPSK	2520.0	0.00	1 / 214	21.96	21.96	0.157	33.01	-11.05
		2535.0	0.00	1 / 214	22.17	22.17	0.165	33.01	-10.84
		2550.0	0.00	1 / 1	22.10	22.10	0.162	33.01	-10.91
16-QAM	2520.0	0.00	1 / 1	21.24	21.24	0.133	33.01	-11.77	
64-QAM	2520.0	0.00	1 / 1	19.85	19.85	0.097	33.01	-13.16	
256-QAM	2520.0	0.00	1 / 108	17.67	17.67	0.059	33.01	-15.34	

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

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2205090025-04-R1.BCG	Test Dates: 6/1/2022 – 9/12/2022	EUT Type: Tablet Device
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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	-0.30	1 / 1	27.57	27.27	0.533	33.01	-5.74	
		2593.0	-0.30	1 / 25	27.97	27.67	0.585	33.01	-5.34	
		2680.0	-0.30	1 / 1	27.96	27.66	0.583	33.01	-5.35	
	QPSK	2506.0	-0.30	1 / 49	28.20	27.90	0.617	33.01	-5.11	
		2593.0	-0.30	1 / 1	27.89	27.59	0.574	33.01	-5.42	
		2680.0	-0.30	1 / 1	27.81	27.51	0.564	33.01	-5.50	
		16-QAM	2506.0	-0.30	1 / 25	27.80	27.50	0.562	33.01	-5.51
		64-QAM	2680.0	-0.30	1 / 1	27.63	27.33	0.541	33.01	-5.68
		256-QAM	2506.0	-0.30	1 / 1	28.19	27.89	0.615	33.01	-5.12
30 MHz	π/2 BPSK	2511.0	-0.30	1 / 39	27.67	27.37	0.546	33.01	-5.64	
		2593.0	-0.30	1 / 76	28.20	27.90	0.617	33.01	-5.11	
		2675.0	-0.30	1 / 39	27.77	27.47	0.558	33.01	-5.54	
	QPSK	2511.0	-0.30	1 / 1	25.51	25.21	0.332	33.01	-7.80	
		2593.0	-0.30	1 / 39	27.75	27.45	0.556	33.01	-5.56	
		2675.0	-0.30	1 / 1	27.41	27.11	0.514	33.01	-5.90	
		16-QAM	2593.0	-0.30	1 / 1	27.42	27.12	0.516	33.01	-5.89
		64-QAM	2511.0	-0.30	1 / 39	28.05	27.75	0.596	33.01	-5.26
		256-QAM	2511.0	-0.30	1 / 1	25.91	25.61	0.364	33.01	-7.40
40 MHz	π/2 BPSK	2516.0	-0.30	1 / 104	25.86	25.56	0.360	33.01	-7.45	
		2593.0	-0.30	1 / 104	28.06	27.76	0.597	33.01	-5.25	
		2670.0	-0.30	1 / 1	27.73	27.43	0.553	33.01	-5.58	
	QPSK	2516.0	-0.30	1 / 53	23.32	23.02	0.201	33.01	-9.99	
		2593.0	-0.30	1 / 1	28.13	27.83	0.607	33.01	-5.18	
		2670.0	-0.30	1 / 53	27.89	27.59	0.575	33.01	-5.42	
		16-QAM	2516.0	-0.30	1 / 1	27.15	26.85	0.484	33.01	-6.16
		64-QAM	2516.0	-0.30	100 / 0	27.53	27.23	0.528	33.01	-5.78
		256-QAM	2516.0	-0.30	1 / 53	25.96	25.66	0.368	33.01	-7.35
50 MHz	π/2 BPSK	2521.0	-0.30	1 / 1	27.57	27.27	0.534	33.01	-5.74	
		2593.0	-0.30	1 / 66	27.94	27.64	0.581	33.01	-5.37	
		2665.0	-0.30	1 / 1	27.11	26.81	0.479	33.01	-6.20	
	QPSK	2521.0	-0.30	128 / 0	28.20	27.90	0.617	33.01	-5.11	
		2593.0	-0.30	1 / 1	27.47	27.17	0.521	33.01	-5.84	
		2665.0	-0.30	1 / 131	27.64	27.34	0.542	33.01	-5.67	
		16-QAM	2521.0	-0.30	1 / 66	27.24	26.94	0.494	33.01	-6.07
		64-QAM	2665.0	-0.30	1 / 66	25.54	25.24	0.334	33.01	-7.77
		256-QAM	2521.0	-0.30	1 / 66	27.99	27.69	0.587	33.01	-5.32
60 MHz	π/2 BPSK	2526.0	-0.30	1 / 1	27.84	27.54	0.567	33.01	-5.47	
		2593.0	-0.30	1 / 160	28.09	27.79	0.601	33.01	-5.22	
		2660.0	-0.30	1 / 1	27.76	27.46	0.557	33.01	-5.55	
	QPSK	2526.0	-0.30	1 / 1	25.38	25.08	0.322	33.01	-7.93	
		2593.0	-0.30	1 / 1	27.86	27.56	0.570	33.01	-5.45	
		2660.0	-0.30	1 / 1	27.98	27.68	0.586	33.01	-5.33	
		16-QAM	2593.0	-0.30	1 / 1	27.44	27.14	0.517	33.01	-5.87
		64-QAM	2526.0	-0.30	1 / 81	27.99	27.69	0.588	33.01	-5.32
		256-QAM	2593.0	-0.30	1 / 1	27.26	26.96	0.496	33.01	-6.05
70 MHz	π/2 BPSK	2531.0	-0.30	1 / 90	26.17	25.87	0.386	33.01	-7.14	
		2593.0	-0.30	1 / 1	27.81	27.51	0.564	33.01	-5.50	
		2655.0	-0.30	1 / 1	27.55	27.25	0.531	33.01	-5.76	
	QPSK	2531.0	-0.30	1 / 1	23.81	23.51	0.224	33.01	-9.50	
		2593.0	-0.30	1 / 187	28.02	27.72	0.592	33.01	-5.29	
		2655.0	-0.30	1 / 90	27.94	27.64	0.580	33.01	-5.38	
		16-QAM	2593.0	-0.30	1 / 1	27.85	27.55	0.568	33.01	-5.46
		64-QAM	2531.0	-0.30	1 / 1	27.48	27.18	0.522	33.01	-5.83
		256-QAM	2531.0	-0.30	1 / 1	25.77	25.47	0.352	33.01	-7.54
80 MHz	π/2 BPSK	2536.0	-0.30	1 / 108	27.31	27.01	0.503	33.01	-6.00	
		2593.0	-0.30	1 / 108	27.73	27.43	0.553	33.01	-5.58	
		2650.0	-0.30	1 / 108	28.01	27.71	0.590	33.01	-5.30	
	QPSK	2536.0	-0.30	1 / 108	26.06	25.76	0.377	33.01	-7.25	
		2540.0	-0.30	1 / 215	27.04	26.74	0.473	33.01	-6.27	
		2650.0	-0.30	1 / 215	27.51	27.21	0.526	33.01	-5.80	
		16-QAM	2593.0	-0.30	1 / 108	26.58	26.28	0.424	33.01	-6.73
		64-QAM	2593.0	-0.30	1 / 108	25.21	24.91	0.310	33.01	-8.10
		256-QAM	2536.0	-0.30	1 / 108	23.31	23.01	0.200	33.01	-10.00
90 MHz	π/2 BPSK	2541.0	-0.30	1 / 122	27.31	27.01	0.502	33.01	-6.00	
		2593.0	-0.30	1 / 122	28.20	27.90	0.617	33.01	-5.11	
		2645.0	-0.30	1 / 122	27.84	27.54	0.568	33.01	-5.47	
	QPSK	2541.0	-0.30	1 / 122	25.93	25.63	0.366	33.01	-7.38	
		2593.0	-0.30	1 / 122	26.95	26.65	0.462	33.01	-6.36	
		2645.0	-0.30	1 / 122	27.26	26.96	0.496	33.01	-6.05	
		16-QAM	2541.0	-0.30	1 / 122	25.46	25.16	0.328	33.01	-7.85
		64-QAM	2541.0	-0.30	1 / 122	24.97	24.67	0.293	33.01	-8.34
		256-QAM	2645.0	-0.30	1 / 122	23.34	23.04	0.201	33.01	-9.97
100 MHz	π/2 BPSK	2546.0	-0.30	1 / 136	27.47	27.17	0.521	33.01	-5.84	
		2593.0	-0.30	1 / 136	28.20	27.90	0.617	33.01	-5.11	
		2640.0	-0.30	1 / 136	27.76	27.46	0.557	33.01	-5.55	
	QPSK	2546.0	-0.30	1 / 136	26.08	25.78	0.378	33.01	-7.23	
		2593.0	-0.30	1 / 136	27.08	26.78	0.476	33.01	-6.23	
		2640.0	-0.30	1 / 271	27.44	27.14	0.518	33.01	-5.87	
		16-QAM	2640.0	-0.30	1 / 1	26.80	26.50	0.447	33.01	-6.51
		64-QAM	2640.0	-0.30	1 / 271	25.02	24.72	0.296	33.01	-8.29
		256-QAM	2640.0	-0.30	1 / 271	23.35	23.05	0.202	33.01	-9.96

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

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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	2510.0	-0.30	1 / 25	25.53	25.23	0.333	33.01	-7.78	
		2593.0	-0.30	1 / 49	25.60	25.30	0.339	33.01	-7.71	
		2680.0	-0.30	1 / 25	25.35	25.05	0.320	33.01	-7.96	
	QPSK	2510.0	-0.30	1 / 49	25.53	25.23	0.333	33.01	-7.78	
		2593.0	-0.30	1 / 25	25.49	25.19	0.330	33.01	-7.82	
		2680.0	-0.30	1 / 25	25.70	25.40	0.347	33.01	-7.61	
		16-QAM	2593.0	-0.30	1 / 1	24.68	24.38	0.274	33.01	-8.63
		64-QAM	2593.0	-0.30	1 / 1	23.26	22.96	0.198	33.01	-10.05
		256-QAM	2593.0	-0.30	1 / 1	21.20	20.90	0.123	33.01	-12.11
	30 MHz	π/2 BPSK	2515.0	-0.30	1 / 39	25.25	24.95	0.312	33.01	-8.06
			2593.0	-0.30	1 / 39	25.27	24.97	0.314	33.01	-8.04
			2675.0	-0.30	1 / 39	25.33	25.03	0.318	33.01	-7.98
QPSK		2515.0	-0.30	1 / 39	25.60	25.30	0.339	33.01	-8.06	
		2593.0	-0.30	1 / 1	25.15	24.85	0.305	33.01	-8.17	
		2675.0	-0.30	1 / 39	25.70	25.40	0.347	33.01	-7.61	
		16-QAM	2515.0	-0.30	1 / 39	24.75	24.45	0.278	33.01	-8.56
		64-QAM	2675.0	-0.30	1 / 1	22.99	22.69	0.186	33.01	-10.32
		256-QAM	2675.0	-0.30	1 / 1	20.93	20.63	0.116	33.01	-12.38
40 MHz		π/2 BPSK	2520.0	-0.30	1 / 104	25.54	25.24	0.334	33.01	-7.77
			2593.0	-0.30	1 / 1	25.42	25.12	0.325	33.01	-7.89
			2670.0	-0.30	1 / 104	25.70	25.40	0.347	33.01	-7.61
	QPSK	2520.0	-0.30	1 / 104	25.50	25.20	0.331	33.01	-7.81	
		2593.0	-0.30	1 / 53	25.41	25.11	0.325	33.01	-7.90	
		2670.0	-0.30	1 / 1	25.57	25.27	0.336	33.01	-7.74	
		16-QAM	2670.0	-0.30	1 / 1	24.92	24.62	0.290	33.01	-8.39
		64-QAM	2670.0	-0.30	1 / 53	23.32	23.02	0.201	33.01	-9.99
		256-QAM	2593.0	-0.30	1 / 1	21.18	20.88	0.122	33.01	-12.13
	50 MHz	π/2 BPSK	2525.0	-0.30	1 / 131	25.25	24.95	0.312	33.01	-8.06
			2593.0	-0.30	1 / 131	25.22	24.92	0.311	33.01	-8.09
			2665.0	-0.30	1 / 66	25.70	25.40	0.347	33.01	-7.61
QPSK		2525.0	-0.30	1 / 66	25.63	25.33	0.341	33.01	-7.68	
		2593.0	-0.30	1 / 131	25.47	25.17	0.329	33.01	-7.84	
		2665.0	-0.30	1 / 1	25.59	25.29	0.338	33.01	-7.72	
		16-QAM	2593.0	-0.30	1 / 66	24.82	24.52	0.283	33.01	-8.49
		64-QAM	2593.0	-0.30	1 / 131	23.20	22.90	0.195	33.01	-10.11
		256-QAM	2665.0	-0.30	1 / 66	21.23	20.93	0.124	33.01	-12.08
60 MHz		π/2 BPSK	2530.0	-0.30	1 / 81	25.57	25.27	0.336	33.01	-7.74
			2593.0	-0.30	1 / 160	25.66	25.36	0.344	33.01	-7.65
			2660.0	-0.30	1 / 81	25.70	25.40	0.347	33.01	-7.61
	QPSK	2530.0	-0.30	1 / 81	25.44	25.14	0.327	33.01	-7.87	
		2593.0	-0.30	1 / 160	25.52	25.22	0.333	33.01	-7.79	
		2660.0	-0.30	1 / 1	25.64	25.34	0.342	33.01	-7.67	
		16-QAM	2660.0	-0.30	1 / 160	25.16	24.86	0.306	33.01	-8.15
		64-QAM	2660.0	-0.30	1 / 1	23.29	22.99	0.199	33.01	-10.02
		256-QAM	2593.0	-0.30	1 / 81	20.97	20.67	0.117	33.01	-12.34
	70 MHz	π/2 BPSK	2535.0	-0.30	1 / 187	25.36	25.06	0.321	33.01	-7.95
			2593.0	-0.30	1 / 90	25.58	25.28	0.337	33.01	-7.73
			2655.0	-0.30	1 / 1	25.67	25.37	0.344	33.01	-7.64
QPSK		2535.0	-0.30	1 / 187	25.56	25.26	0.336	33.01	-7.75	
		2593.0	-0.30	1 / 1	25.70	25.40	0.347	33.01	-7.61	
		2655.0	-0.30	1 / 90	25.60	25.30	0.339	33.01	-7.71	
		16-QAM	2655.0	-0.30	1 / 1	24.89	24.59	0.288	33.01	-8.42
		64-QAM	2593.0	-0.30	1 / 1	23.42	23.12	0.205	33.01	-9.89
		256-QAM	2655.0	-0.30	1 / 1	21.10	20.80	0.120	33.01	-12.21
80 MHz		π/2 BPSK	2540.0	-0.30	1 / 215	24.98	24.68	0.294	33.01	-8.33
			2593.0	-0.30	1 / 1	25.58	25.28	0.337	33.01	-7.73
			2650.0	-0.30	1 / 1	25.70	25.40	0.347	33.01	-7.61
	QPSK	2540.0	-0.30	1 / 215	25.59	25.29	0.338	33.01	-7.72	
		2593.0	-0.30	1 / 1	25.46	25.16	0.328	33.01	-7.85	
		2650.0	-0.30	1 / 215	25.64	25.34	0.342	33.01	-7.67	
		16-QAM	2593.0	-0.30	1 / 1	24.89	24.59	0.288	33.01	-8.42
		64-QAM	2650.0	-0.30	1 / 1	23.26	22.96	0.198	33.01	-10.05
		256-QAM	2593.0	-0.30	1 / 1	21.34	21.04	0.127	33.01	-11.97
	90 MHz	π/2 BPSK	2545.0	-0.30	1 / 243	25.29	24.99	0.315	33.01	-8.02
			2593.0	-0.30	1 / 1	25.67	25.37	0.345	33.01	-7.64
			2645.0	-0.30	1 / 122	25.55	25.25	0.335	33.01	-7.76
QPSK		2545.0	-0.30	1 / 243	25.33	25.03	0.318	33.01	-7.98	
		2593.0	-0.30	1 / 243	25.56	25.26	0.335	33.01	-7.75	
		2645.0	-0.30	1 / 243	25.70	25.40	0.347	33.01	-7.61	
		16-QAM	2593.0	-0.30	1 / 122	24.97	24.67	0.293	33.01	-8.35
		64-QAM	2593.0	-0.30	1 / 1	23.19	22.89	0.194	33.01	-10.12
		256-QAM	2645.0	-0.30	1 / 1	21.14	20.84	0.121	33.01	-12.17
100 MHz		π/2 BPSK	2550.0	-0.30	1 / 1	25.55	25.25	0.335	33.01	-7.76
			2593.0	-0.30	1 / 271	25.59	25.29	0.338	33.01	-7.72
			2640.0	-0.30	1 / 271	25.69	25.39	0.346	33.01	-7.62
	QPSK	2550.0	-0.30	1 / 1	25.50	25.20	0.331	33.01	-7.81	
		2593.0	-0.30	1 / 271	25.14	24.84	0.305	33.01	-8.17	
		2640.0	-0.30	1 / 1	25.13	24.83	0.304	33.01	-8.18	
		16-QAM	2550.0	-0.30	1 / 271	24.35	24.05	0.254	33.01	-8.96
		64-QAM	2640.0	-0.30	1 / 271	23.12	22.82	0.191	33.01	-10.19
		256-QAM	2550.0	-0.30	1 / 271	24.67	24.37	0.274	33.01	-8.64

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

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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	21.95	0.00	21.95	0.157	33.01	-11.06
				21100	2535.0	1	99		21298	2554.8	1	0	22.12	0.00	22.12	0.163	33.01	-10.89
			QPSK	21350	2560.0	1	0	QPSK	21152	2540.2	1	99	22.07	0.00	22.07	0.161	33.01	-10.94
				21100	2535	100	0		21298	2554.8	100	0	20.35	0.00	20.35	0.108	33.01	-12.66
			16-QAM	21100	2535	100	0	16-QAM	21298	2554.8	100	0	19.39	0.00	19.39	0.087	33.01	-13.62
				64-QAM	21100	2535	100		0	64-QAM	21298	2554.8	100	0	19.25	0.00	19.25	0.084
			256-QAM	21100	2535	100	0	256-QAM	21298	2554.8	100	0	17.27	0.00	17.27	0.053	33.01	-15.74

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	28.02	-0.30	27.72	0.592	33.01	-5.29
				40620	2593.0	1	99		40818	2612.8	1	0	28.06	-0.30	27.76	0.597	33.01	-5.25
			QPSK	41490	2680.0	1	0	QPSK	41292	2660.2	1	99	27.91	-0.30	27.61	0.577	33.01	-5.40
				40620	2593	100	0		40818	2612.8	100	0	28.25	-0.30	27.95	0.394	33.01	-7.06
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	25.25	-0.30	24.95	0.313	33.01	-8.06
				64-QAM	40620	2593	100		0	64-QAM	40818	2612.8	100	0	25.28	-0.30	24.98	0.315
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	23.26	-0.30	22.96	0.198	33.01	-10.05

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	25.49	-0.30	25.19	0.330	33.01	-7.82
				40620	2593.0	1	99		40818	2612.8	1	0	25.68	-0.30	25.38	0.345	33.01	-7.63
			QPSK	41490	2680.0	1	0	QPSK	41292	2660.2	1	99	25.40	-0.30	25.10	0.324	33.01	-7.91
				40620	2593	100	0		40818	2612.8	100	0	23.75	-0.30	23.45	0.221	33.01	-9.56
			16-QAM	40620	2593	100	0	16-QAM	40818	2612.8	100	0	22.76	-0.30	22.46	0.176	33.01	-10.55
				64-QAM	40620	2593	100		0	64-QAM	40818	2612.8	100	0	22.87	-0.30	22.57	0.181
			256-QAM	40620	2593	100	0	256-QAM	40818	2612.8	100	0	20.76	-0.30	20.46	0.111	33.01	-12.55

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.

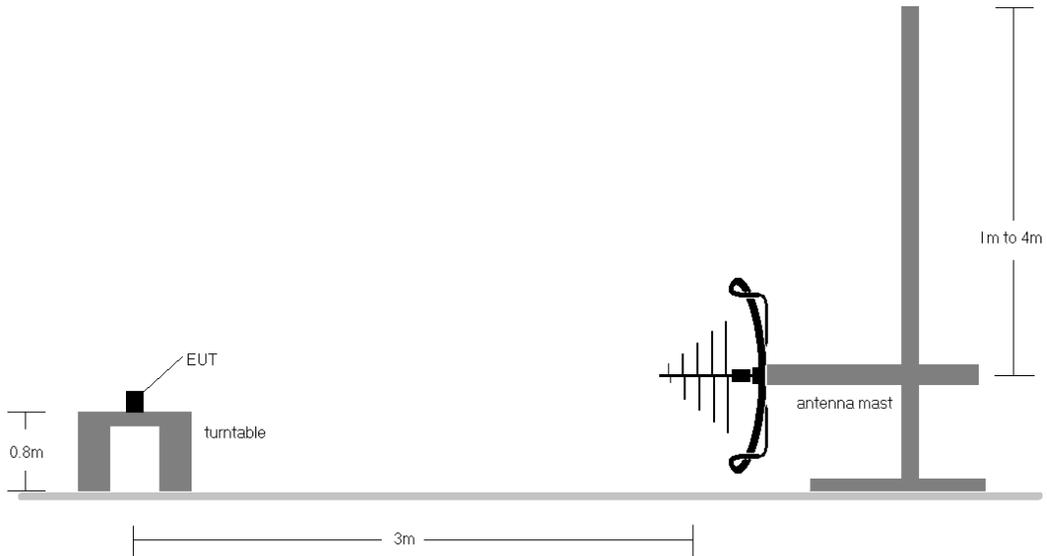


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

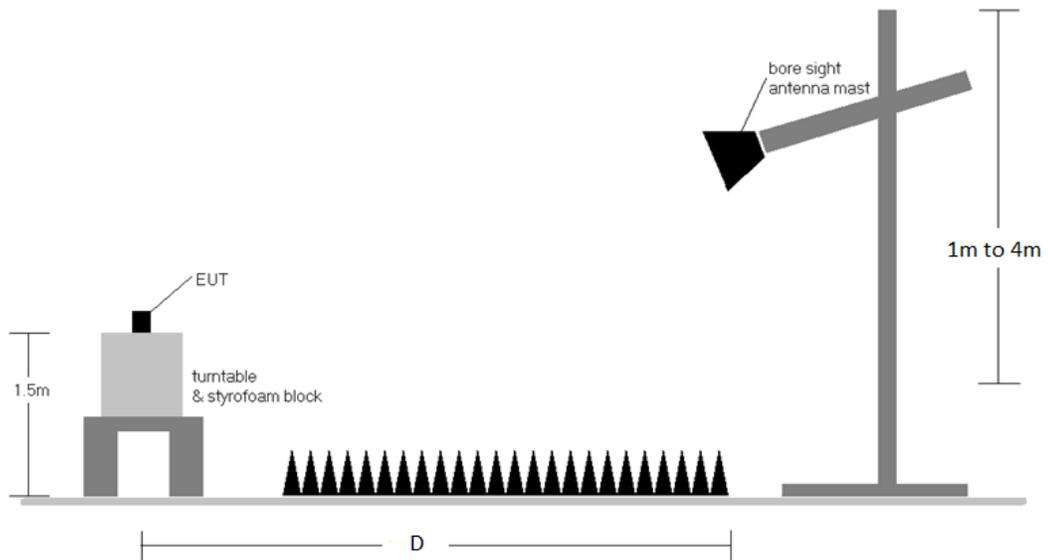


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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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 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4619.2	V	-	-	-79.44	6.77	34.33	-60.93	-40.00	-20.93
6928.8	V	-	-	-80.39	10.27	36.88	-58.38	-40.00	-18.38
9238.4	V	-	-	-82.46	12.29	36.83	-58.43	-40.00	-18.43

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	V	-	-	-79.48	6.76	34.28	-60.98	-40.00	-20.98
6930.0	V	-	-	-80.03	10.26	37.23	-58.03	-40.00	-18.03
9240.0	V	-	-	-82.44	12.31	36.87	-58.38	-40.00	-18.38

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

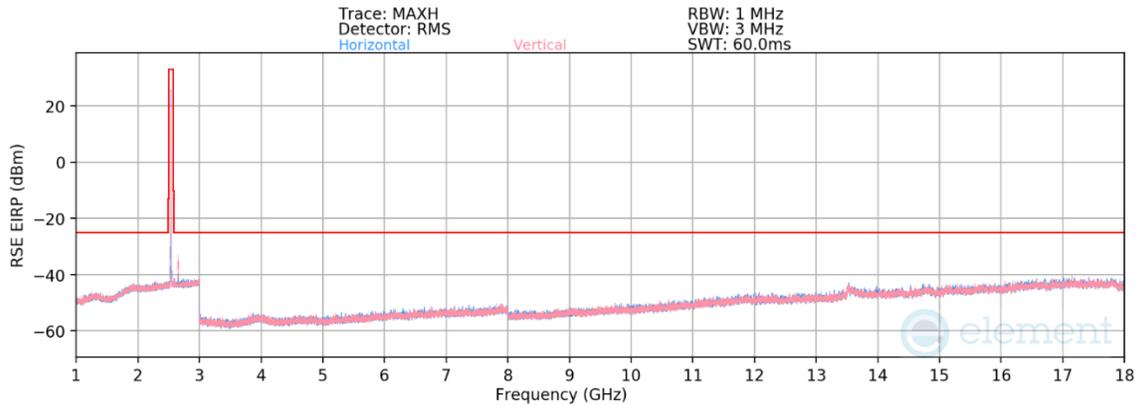
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 24

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4629.39	V	-	-	-78.91	6.84	34.93	-60.33	-40.00	-20.33
6944.09	V	-	-	-80.27	10.23	36.96	-58.29	-40.00	-18.29
9258.78	V	-	-	-82.46	12.34	36.88	-58.37	-40.00	-18.37

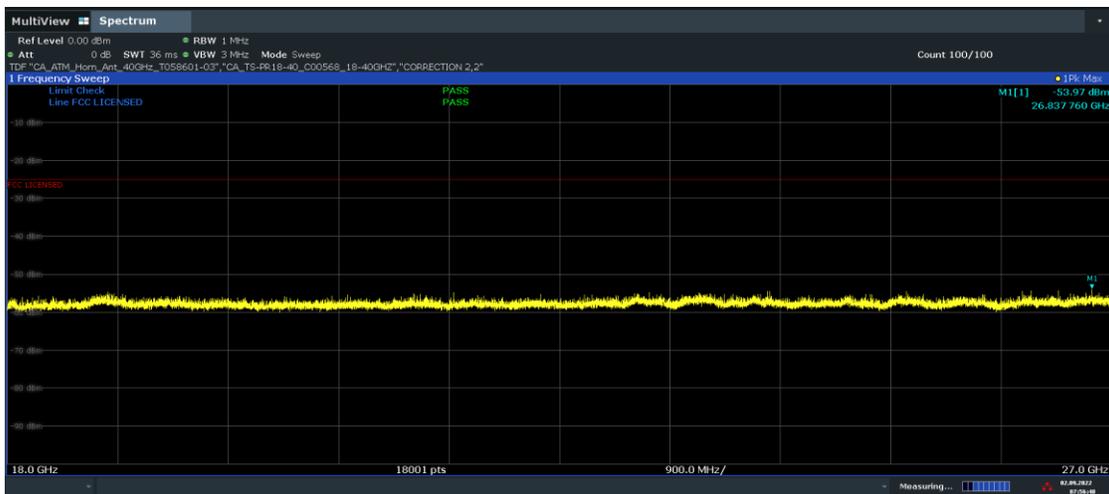
Table 7-49. Radiated Spurious Data (LTE Band 30 – High Channel)

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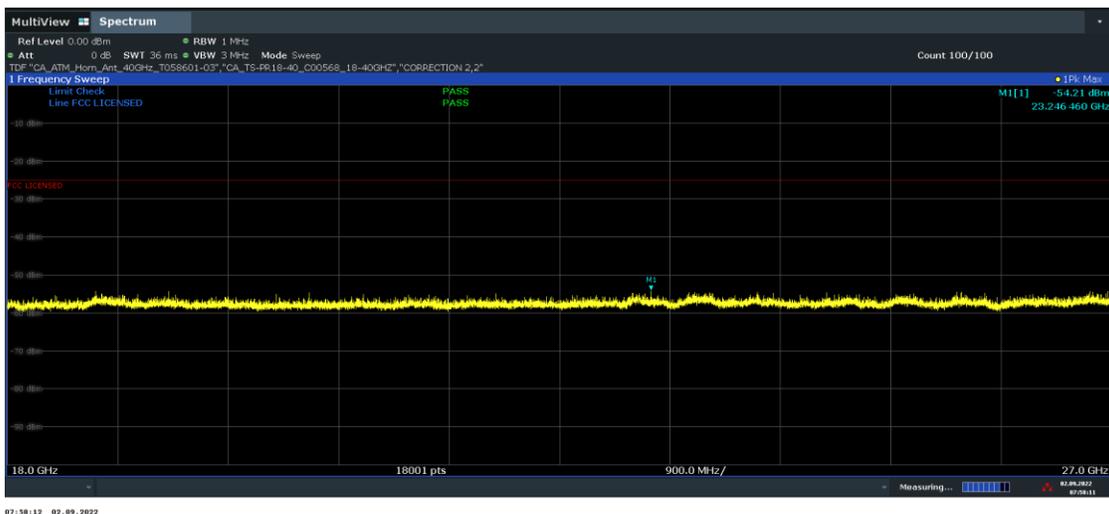
LTE Band 7



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)



Plot 7-307. Antenna 4b Radiated Spurious Emission above 18GHz (LTE Band 7, Pol. V)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.0	H	-	-	-80.10	7.60	34.50	-60.76	-25.00	-35.76
7530.0	H	-	-	-80.88	10.96	37.08	-58.18	-25.00	-33.18
10040.0	H	-	-	-82.89	13.87	37.98	-57.27	-25.00	-32.27

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	H	-	-	-79.82	7.42	34.60	-60.66	-25.00	-35.66
7605.0	H	260	6	-77.94	10.93	39.99	-55.27	-25.00	-30.27
10140.0	H	-	-	-83.08	14.68	38.60	-56.65	-25.00	-31.65
12675.0	H	-	-	-84.55	18.68	41.13	-54.13	-25.00	-29.13
15210.0	H	-	-	-83.55	21.36	44.81	-50.44	-25.00	-25.44

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	H	-	-	-77.88	4.41	33.53	-61.72	-25.00	-36.72
7680.00	H	-	-	-80.79	9.02	35.23	-60.03	-25.00	-35.03
10240.00	H	-	-	-83.93	14.22	37.29	-57.97	-25.00	-32.97

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

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

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.0	V	-	-	-80.39	7.61	34.22	-61.04	-25.00	-36.04
7518.0	V	-	-	-81.30	10.90	36.60	-58.66	-25.00	-33.66
10024.0	V	-	-	-82.49	13.74	38.25	-57.01	-25.00	-32.01

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	-	-	-80.19	7.62	34.43	-60.83	-25.00	-35.83
7779.0	V	-	-	-80.40	10.79	37.39	-57.87	-25.00	-32.87
10372.0	V	-	-	-82.05	14.80	39.75	-55.51	-25.00	-30.51

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	-	-	-79.97	8.30	35.33	-59.92	-25.00	-34.92
8040.0	V	-	-	-80.77	10.99	37.22	-58.04	-25.00	-33.04
10720.0	V	-	-	-82.23	15.88	40.65	-54.60	-25.00	-29.60

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

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n30

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4615.0	V	-	-	-79.24	6.91	34.67	-60.59	-40.00	-20.59
6922.5	V	282	209	-75.70	10.28	41.58	-53.68	-40.00	-13.68
9230.0	V	-	-	-80.91	12.07	38.16	-57.09	-40.00	-17.09
11537.5	V	-	-	-82.41	16.78	41.37	-53.89	-40.00	-13.89
13845.0	V	-	-	-80.50	18.33	44.83	-50.43	-40.00	-10.43

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	-	-	-79.21	6.76	34.55	-60.71	-40.00	-20.71
6930.0	V	272	215	-74.39	10.26	42.87	-52.39	-40.00	-12.39
9240.0	V	-	-	-80.82	12.31	38.49	-56.76	-40.00	-16.76
11550.0	V	-	-	-82.38	16.73	41.35	-53.90	-40.00	-13.90
13860.0	V	-	-	-80.71	18.01	44.30	-50.96	-40.00	-10.96

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

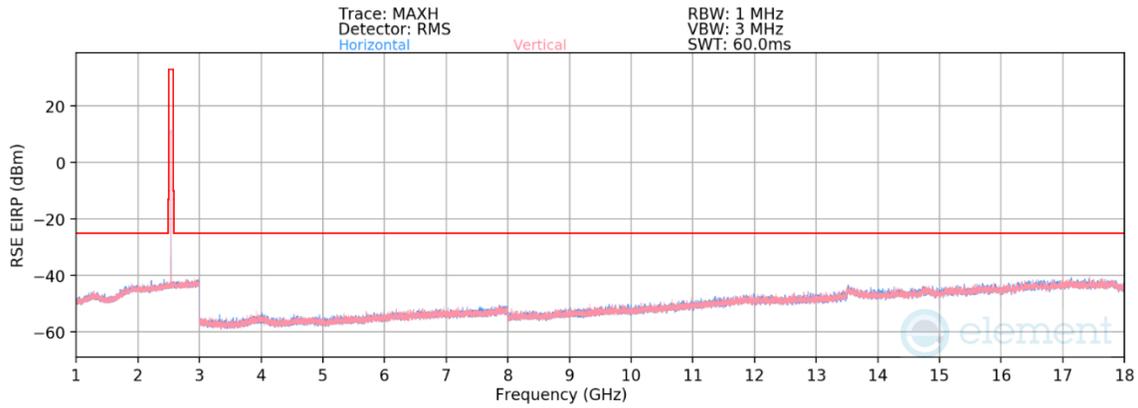
Bandwidth (MHz):	5
Frequency (MHz):	2312.5
RB / Offset:	1 / 25

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	-	-	-79.11	6.79	34.68	-60.58	-40.00	-20.58
6937.5	V	272	180	-73.09	10.24	44.15	-51.11	-40.00	-11.11
9250.0	V	-	-	-80.99	12.38	38.39	-56.87	-40.00	-16.87
11562.5	V	-	-	-82.51	16.59	41.08	-54.18	-40.00	-14.18
13875.0	V	-	-	-80.78	17.84	44.06	-51.20	-40.00	-11.20

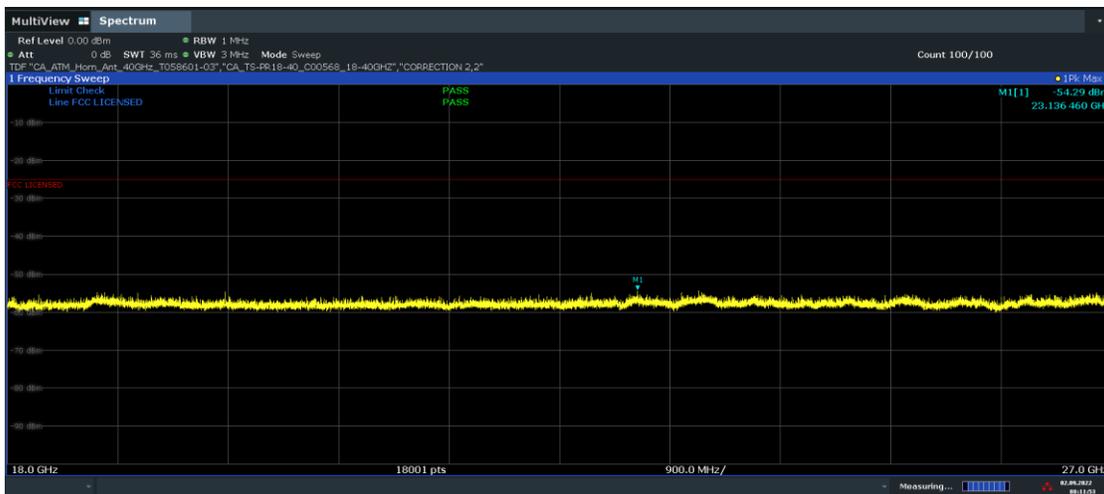
Table 7-58. Radiated Spurious Data (NR Band n30 – High Channel)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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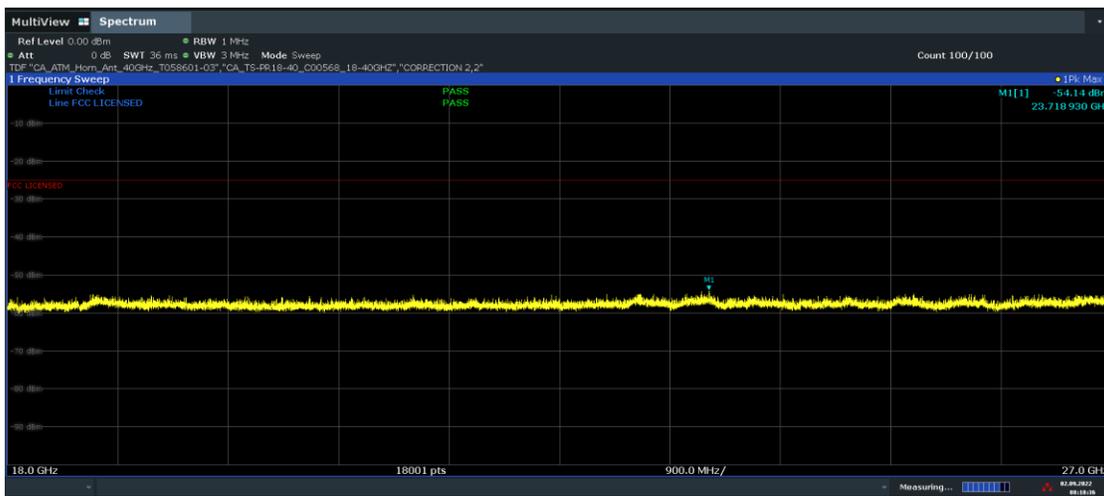
NR Band n7



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



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



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

FCC ID: BCGA2435	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	-	-	-77.80	3.89	33.09	-62.17	-25.00	-37.17
7560.0	V	-	-	-80.29	8.93	35.64	-59.62	-25.00	-34.62
10080.0	V	-	-	-83.01	13.17	37.16	-58.10	-25.00	-33.10

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	-	-	-77.81	3.99	33.18	-62.07	-25.00	-37.07
7605.0	V	-	-	-80.25	9.07	35.82	-59.43	-25.00	-34.43
10140.0	V	-	-	-83.12	13.37	37.25	-58.01	-25.00	-33.01

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

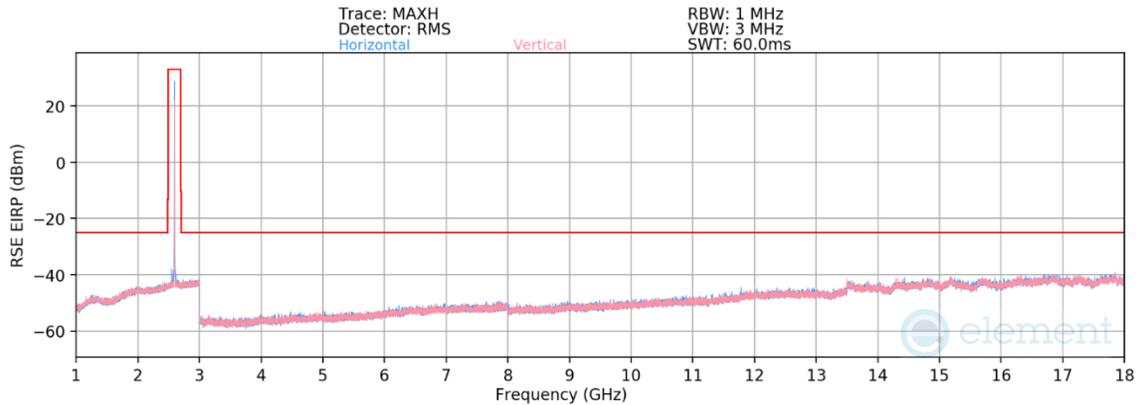
Bandwidth (MHz):	40
Frequency (MHz):	2550.0
RB / Offset:	1 / 108

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	-	-	-77.83	4.23	33.40	-61.86	-25.00	-36.86
7650.0	V	-	-	-80.06	8.86	35.80	-59.46	-25.00	-34.46
10200.0	V	-	-	-83.26	13.78	37.52	-57.74	-25.00	-32.74

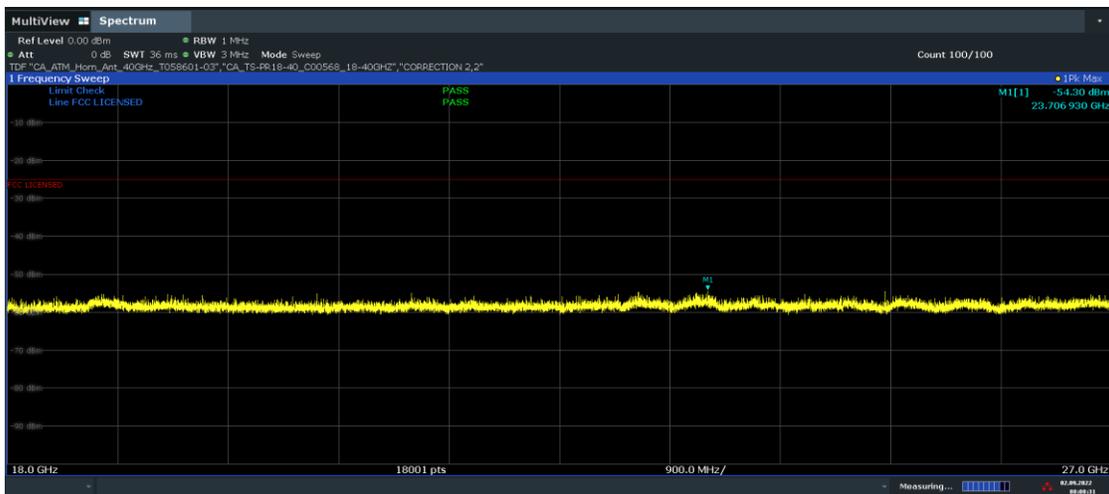
Table 7-61. Radiated Spurious Data (NR Band n7 – High Channel)

FCC ID: BCGA2435	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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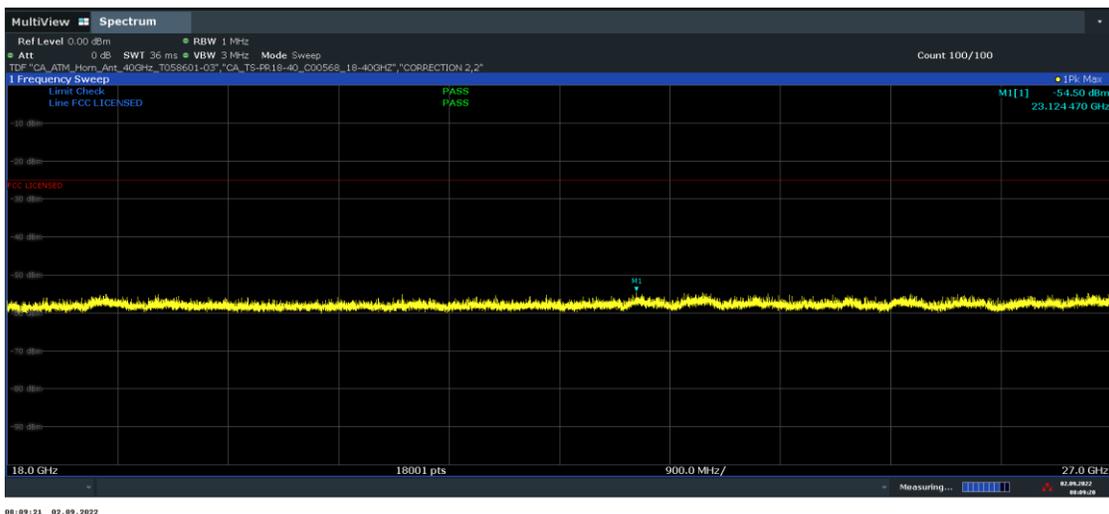
NR Band n41



Plot 7-311. Antenna 4b Radiated Spurious Plot 1GHz – 18GHz (NR Band n41)



Plot 7-312. Antenna 4b Radiated Spurious Emission above 18GHz (NR Band n41, Pol. H)



Plot 7-313. Antenna 4b Radiated Spurious Emission above 18GHz (NR Band n41, Pol. V)

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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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	-	-	-80.07	7.60	34.53	-60.73	-25.00	-35.73
7638.0	V	-	-	-80.82	11.17	37.35	-57.91	-25.00	-32.91
10184.0	V	-	-	-81.69	14.24	39.55	-55.71	-25.00	-30.71

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	V	-	-	-79.86	7.62	34.76	-60.50	-25.00	-35.50
7779.0	V	-	-	-80.54	10.79	37.25	-58.01	-25.00	-33.01
10372.0	V	-	-	-81.83	14.80	39.97	-55.29	-25.00	-30.29

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	V	-	-	-79.75	7.43	34.68	-60.57	-25.00	-35.57
7920.0	V	-	-	-80.77	11.29	37.52	-57.74	-25.00	-32.74
10560.0	V	-	-	-81.95	14.86	39.91	-55.34	-25.00	-30.34

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

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