


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	3710	-1.00	1 / 25	22.99	21.99	0.158	33.01	-11.02
		3840	-1.00	1 / 25	23.16	22.16	0.165	33.01	-10.85
		3970	-1.00	1 / 13	23.20	22.20	0.166	33.01	-10.81
	QPSK	3710	-1.00	1 / 25	23.13	22.13	0.163	33.01	-10.88
		3840	-1.00	1 / 25	23.18	22.18	0.165	33.01	-10.83
		3970	-1.00	1 / 37	22.80	21.80	0.152	33.01	-11.21
	16-QAM	3970	-1.00	1 / 25	22.20	21.20	0.132	33.01	-11.81
	64-QAM	3970	-1.00	1 / 13	21.05	20.05	0.101	33.01	-12.96
	256-QAM	3970	-1.00	1 / 25	18.00	17.00	0.050	33.01	-16.01
	256-QAM	3970	-1.00	1 / 25	18.00	17.00	0.050	33.01	-16.01
30 MHz	$\pi/2$ BPSK	3715	-1.00	1 / 39	23.05	22.05	0.160	33.01	-10.96
		3840	-1.00	1 / 39	23.20	22.20	0.166	33.01	-10.81
		3965	-1.00	1 / 58	23.20	22.20	0.166	33.01	-10.81
	QPSK	3715	-1.00	1 / 58	22.95	21.95	0.157	33.01	-11.06
		3840	-1.00	1 / 39	23.18	22.18	0.165	33.01	-10.83
		3965	-1.00	1 / 19	23.09	22.09	0.162	33.01	-10.92
	16-QAM	3965	-1.00	1 / 19	22.41	21.41	0.138	33.01	-11.60
	64-QAM	3965	-1.00	1 / 19	21.05	20.05	0.101	33.01	-12.96
	256-QAM	3965	-1.00	1 / 19	18.85	17.85	0.061	33.01	-15.16
	256-QAM	3965	-1.00	1 / 19	18.85	17.85	0.061	33.01	-15.16
	256-QAM	3965	-1.00	1 / 19	18.85	17.85	0.061	33.01	-15.16
40 MHz	$\pi/2$ BPSK	3720	-1.00	1 / 26	23.17	22.17	0.165	33.01	-10.84
		3840	-1.00	1 / 26	23.15	22.15	0.164	33.01	-10.87
		3960	-1.00	1 / 79	23.01	22.01	0.159	33.01	-11.00
	QPSK	3720	-1.00	1 / 26	22.92	21.92	0.156	33.01	-11.09
		3840	-1.00	1 / 26	23.10	22.10	0.162	33.01	-10.92
		3960	-1.00	1 / 79	23.20	22.20	0.166	33.01	-10.81
	16-QAM	3960	-1.00	1 / 53	22.20	21.20	0.132	33.01	-11.81
	64-QAM	3960	-1.00	1 / 53	20.82	19.82	0.096	33.01	-13.19
	256-QAM	3720	-1.00	1 / 26	18.60	17.60	0.058	33.01	-15.41
	256-QAM	3720	-1.00	1 / 26	18.60	17.60	0.058	33.01	-15.41
	256-QAM	3720	-1.00	1 / 26	18.60	17.60	0.058	33.01	-15.41
50 MHz	$\pi/2$ BPSK	3725	-1.00	1 / 66	22.99	21.99	0.158	33.01	-11.02
		3840	-1.00	1 / 66	23.16	22.16	0.165	33.01	-10.85
		3955	-1.00	1 / 33	23.20	22.20	0.166	33.01	-10.81
	QPSK	3725	-1.00	1 / 66	23.17	22.17	0.165	33.01	-10.84
		3840	-1.00	1 / 99	23.16	22.16	0.164	33.01	-10.85
		3955	-1.00	1 / 99	23.07	22.07	0.161	33.01	-10.94
	16-QAM	3955	-1.00	1 / 99	22.52	21.52	0.142	33.01	-11.49
	64-QAM	3955	-1.00	1 / 99	21.22	20.22	0.105	33.01	-12.79
	256-QAM	3840	-1.00	1 / 66	18.77	17.77	0.060	33.01	-15.24
	256-QAM	3840	-1.00	1 / 66	18.77	17.77	0.060	33.01	-15.24
	256-QAM	3840	-1.00	1 / 66	18.77	17.77	0.060	33.01	-15.24
60 MHz	$\pi/2$ BPSK	3730	-1.00	1 / 81	22.91	21.91	0.155	33.01	-11.10
		3840	-1.00	1 / 81	23.20	22.20	0.166	33.01	-10.81
		3950	-1.00	1 / 121	23.19	22.19	0.166	33.01	-10.82
	QPSK	3730	-1.00	1 / 81	23.13	22.13	0.163	33.01	-10.88
		3840	-1.00	1 / 81	23.18	22.18	0.165	33.01	-10.83
		3950	-1.00	1 / 121	22.80	21.80	0.152	33.01	-11.21
	16-QAM	3730	-1.00	1 / 121	21.98	20.98	0.125	33.01	-12.03
	64-QAM	3730	-1.00	1 / 40	20.84	19.84	0.096	33.01	-13.17
	256-QAM	3840	-1.00	1 / 40	18.51	17.51	0.056	33.01	-15.50
	256-QAM	3840	-1.00	1 / 40	18.51	17.51	0.056	33.01	-15.50
	256-QAM	3840	-1.00	1 / 40	18.51	17.51	0.056	33.01	-15.50
70 MHz	$\pi/2$ BPSK	3735	-1.00	1 / 94	22.94	21.94	0.156	33.01	-11.07
		3840	-1.00	1 / 47	23.09	22.09	0.162	33.01	-10.92
		3945	-1.00	1 / 47	23.04	22.04	0.160	33.01	-10.97
	QPSK	3735	-1.00	1 / 141	23.03	22.03	0.159	33.01	-10.98
		3840	-1.00	1 / 94	22.89	21.89	0.155	33.01	-11.12
		3945	-1.00	1 / 94	23.07	22.07	0.161	33.01	-10.94
	16-QAM	3945	-1.00	1 / 47	22.30	21.30	0.135	33.01	-11.71
	64-QAM	3840	-1.00	1 / 141	20.76	19.76	0.095	33.01	-13.25
	256-QAM	3840	-1.00	1 / 94	18.37	17.37	0.055	33.01	-15.64
	256-QAM	3840	-1.00	1 / 94	18.37	17.37	0.055	33.01	-15.64
	256-QAM	3840	-1.00	1 / 94	18.37	17.37	0.055	33.01	-15.64
80 MHz	$\pi/2$ BPSK	3740	-1.00	1 / 108	23.05	22.05	0.161	33.01	-10.96
		3840	-1.00	1 / 108	23.09	22.09	0.162	33.01	-10.92
		3940	-1.00	1 / 162	22.97	21.97	0.157	33.01	-11.04
	QPSK	3740	-1.00	1 / 54	22.94	21.94	0.156	33.01	-11.07
		3840	-1.00	1 / 54	23.20	22.20	0.166	33.01	-10.81
		3940	-1.00	1 / 54	23.11	22.11	0.163	33.01	-10.90
	16-QAM	3840	-1.00	1 / 162	22.35	21.35	0.137	33.01	-11.66
	64-QAM	3840	-1.00	1 / 108	21.10	20.10	0.102	33.01	-12.91
	256-QAM	3840	-1.00	1 / 54	18.63	17.63	0.058	33.01	-15.38
	256-QAM	3840	-1.00	1 / 54	18.63	17.63	0.058	33.01	-15.38
	256-QAM	3840	-1.00	1 / 54	18.63	17.63	0.058	33.01	-15.38
90 MHz	$\pi/2$ BPSK	3745	-1.00	1 / 122	23.13	22.13	0.163	33.01	-10.88
		3840	-1.00	1 / 122	23.20	22.20	0.166	33.01	-10.81
		3935	-1.00	1 / 122	22.95	21.95	0.157	33.01	-11.06
	QPSK	3745	-1.00	1 / 61	23.06	22.06	0.161	33.01	-10.95
		3840	-1.00	1 / 61	23.12	22.12	0.163	33.01	-10.89
		3935	-1.00	1 / 122	22.87	21.87	0.154	33.01	-11.14
	16-QAM	3935	-1.00	1 / 122	21.69	20.69	0.117	33.01	-12.32
	64-QAM	3935	-1.00	1 / 122	20.71	19.71	0.094	33.01	-13.30
	256-QAM	3935	-1.00	1 / 122	18.00	17.00	0.050	33.01	-16.01
	256-QAM	3935	-1.00	1 / 122	18.00	17.00	0.050	33.01	-16.01
	256-QAM	3935	-1.00	1 / 122	18.00	17.00	0.050	33.01	-16.01
100 MHz	$\pi/2$ BPSK	3750	-1.00	1 / 68	22.55	21.55	0.143	33.01	-11.46
		3840	-1.00	1 / 204	22.55	21.55	0.143	33.01	-11.46
		3930	-1.00	1 / 204	22.20	22.20	0.166	33.01	-10.81
	QPSK	3750	-1.00	1 / 68	22.84	21.84	0.153	33.01	-11.17
		3840	-1.00	1 / 136	23.20	22.20	0.166	33.01	-10.81
		3930	-1.00	1 / 204	22.96	21.96	0.157	33.01	-11.05
	16-QAM	3930	-1.00	1 / 204	22.17	21.17	0.131	33.01	-11.84
	64-QAM	3840	-1.00	1 / 136	21.09	20.09	0.102	33.01	-12.92
	256-QAM	3840	-1.00	1 / 68	18.65	17.65	0.058	33.01	-15.36
	256-QAM	3840	-1.00	1 / 68	18.65	17.65	0.058	33.01	-15.36
	256-QAM	3840	-1.00	1 / 68	18.65	17.65	0.058	33.01	-15.36

Table 7-8. EIRP Data (NR Band n77 (PC2) - C-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 145 of 171


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Version 2.0, 5/21/2021

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	3710	-1.00	1 / 37	23.10	22.10	0.162	33.01	-10.91
		3840	-1.00	1 / 37	23.17	22.17	0.165	33.01	-10.84
		3970	-1.00	1 / 25	23.11	22.11	0.163	33.01	-10.90
	QPSK	3710	-1.00	1 / 37	23.15	22.15	0.164	33.01	-10.86
		3840	-1.00	1 / 25	23.20	22.20	0.166	33.01	-10.81
		3970	-1.00	1 / 37	23.08	22.08	0.161	33.01	-10.93
	16-QAM	3840	-1.00	1 / 13	21.60	20.60	0.115	33.01	-12.42
	64-QAM	3710	-1.00	1 / 25	20.49	19.49	0.089	33.01	-13.52
	256-QAM	3970	-1.00	1 / 37	18.31	17.31	0.054	33.01	-15.70
	256-QAM	3840	-1.00	1 / 19	19.01	18.01	0.063	33.01	-15.00
30 MHz	$\pi/2$ BPSK	3715	-1.00	1 / 19	23.14	22.14	0.164	33.01	-10.87
		3840	-1.00	1 / 19	23.20	22.20	0.166	33.01	-10.81
		3965	-1.00	1 / 39	22.91	21.91	0.155	33.01	-11.10
	QPSK	3715	-1.00	1 / 58	22.91	21.91	0.155	33.01	-11.10
		3840	-1.00	1 / 19	23.11	22.11	0.163	33.01	-10.90
		3965	-1.00	1 / 19	22.95	21.95	0.157	33.01	-11.06
	16-QAM	3840	-1.00	1 / 19	21.60	20.60	0.115	33.01	-12.42
	64-QAM	3840	-1.00	1 / 19	21.00	20.00	0.100	33.01	-13.02
	256-QAM	3840	-1.00	1 / 19	19.01	18.01	0.063	33.01	-15.00
	256-QAM	3840	-1.00	1 / 19	19.01	18.01	0.063	33.01	-15.00
40 MHz	$\pi/2$ BPSK	3720	-1.00	1 / 79	23.10	22.10	0.162	33.01	-10.91
		3840	-1.00	1 / 79	23.17	22.17	0.165	33.01	-10.84
		3960	-1.00	1 / 53	23.11	22.11	0.163	33.01	-10.90
	QPSK	3720	-1.00	1 / 79	23.13	22.13	0.163	33.01	-10.89
		3840	-1.00	1 / 79	23.20	22.20	0.166	33.01	-10.81
		3960	-1.00	1 / 53	23.14	22.14	0.164	33.01	-10.87
	16-QAM	3840	-1.00	1 / 26	22.35	21.35	0.136	33.01	-11.66
	64-QAM	3720	-1.00	1 / 79	21.23	20.23	0.105	33.01	-12.78
	256-QAM	3840	-1.00	1 / 53	19.12	18.12	0.065	33.01	-14.89
	256-QAM	3840	-1.00	1 / 53	19.12	18.12	0.065	33.01	-14.89
50 MHz	$\pi/2$ BPSK	3725	-1.00	1 / 33	23.18	22.18	0.165	33.01	-10.83
		3840	-1.00	1 / 66	23.20	22.20	0.166	33.01	-10.81
		3955	-1.00	1 / 33	22.97	21.97	0.158	33.01	-11.04
	QPSK	3725	-1.00	1 / 33	22.66	21.66	0.147	33.01	-11.35
		3840	-1.00	1 / 66	22.99	21.99	0.158	33.01	-11.03
		3955	-1.00	1 / 33	22.71	21.71	0.148	33.01	-11.30
	16-QAM	3840	-1.00	1 / 99	21.71	20.71	0.118	33.01	-12.30
	64-QAM	3840	-1.00	1 / 33	20.96	19.96	0.099	33.01	-13.05
	256-QAM	3840	-1.00	1 / 33	18.96	17.96	0.063	33.01	-15.05
	256-QAM	3840	-1.00	1 / 33	18.96	17.96	0.063	33.01	-15.05
60 MHz	$\pi/2$ BPSK	3730	-1.00	1 / 121	23.17	22.17	0.165	33.01	-10.84
		3840	-1.00	1 / 40	23.12	22.12	0.163	33.01	-10.89
		3950	-1.00	1 / 40	23.10	22.10	0.162	33.01	-10.91
	QPSK	3730	-1.00	1 / 121	23.15	22.15	0.164	33.01	-10.86
		3840	-1.00	1 / 81	23.20	22.20	0.166	33.01	-10.81
		3950	-1.00	1 / 121	23.08	22.08	0.161	33.01	-10.93
	16-QAM	3840	-1.00	1 / 81	21.82	20.82	0.121	33.01	-12.19
	64-QAM	3950	-1.00	1 / 121	21.25	20.25	0.106	33.01	-12.76
	256-QAM	3840	-1.00	1 / 81	18.67	17.67	0.058	33.01	-15.34
	256-QAM	3840	-1.00	1 / 81	18.67	17.67	0.058	33.01	-15.34
70 MHz	$\pi/2$ BPSK	3735	-1.00	1 / 141	23.11	22.11	0.162	33.01	-10.90
		3840	-1.00	1 / 94	23.19	22.19	0.166	33.01	-10.82
		3945	-1.00	1 / 94	23.07	22.07	0.161	33.01	-10.95
	QPSK	3735	-1.00	1 / 94	23.15	22.15	0.164	33.01	-10.86
		3840	-1.00	1 / 94	23.20	22.20	0.166	33.01	-10.81
		3945	-1.00	1 / 141	23.03	22.03	0.160	33.01	-10.98
	16-QAM	3840	-1.00	1 / 47	21.90	20.90	0.123	33.01	-12.11
	64-QAM	3735	-1.00	1 / 94	20.48	19.48	0.089	33.01	-13.53
	256-QAM	3945	-1.00	1 / 47	18.21	17.21	0.053	33.01	-15.80
	256-QAM	3945	-1.00	1 / 47	18.21	17.21	0.053	33.01	-15.80
	256-QAM	3945	-1.00	1 / 47	18.21	17.21	0.053	33.01	-15.80
80 MHz	$\pi/2$ BPSK	3740	-1.00	1 / 54	22.15	21.15	0.130	33.01	-11.86
		3840	-1.00	1 / 108	22.57	21.57	0.144	33.01	-11.44
		3940	-1.00	1 / 54	23.10	22.10	0.162	33.01	-10.91
	QPSK	3740	-1.00	1 / 54	22.78	21.78	0.151	33.01	-11.23
		3840	-1.00	1 / 54	22.95	21.95	0.157	33.01	-11.06
		3940	-1.00	1 / 108	23.08	22.08	0.161	33.01	-10.93
	16-QAM	3840	-1.00	1 / 54	21.71	20.71	0.118	33.01	-12.30
	64-QAM	3740	-1.00	1 / 108	20.49	19.49	0.089	33.01	-13.52
	256-QAM	3940	-1.00	1 / 54	18.22	17.22	0.053	33.01	-15.79
	256-QAM	3940	-1.00	1 / 54	18.22	17.22	0.053	33.01	-15.79
	256-QAM	3940	-1.00	1 / 54	18.22	17.22	0.053	33.01	-15.79
90 MHz	$\pi/2$ BPSK	3745	-1.00	1 / 122	22.97	21.97	0.157	33.01	-11.04
		3840	-1.00	1 / 61	23.09	22.09	0.162	33.01	-10.92
		3935	-1.00	1 / 183	22.74	21.74	0.149	33.01	-11.27
	QPSK	3745	-1.00	1 / 122	22.92	21.92	0.155	33.01	-11.09
		3840	-1.00	1 / 61	22.86	21.86	0.154	33.01	-11.15
		3935	-1.00	1 / 122	22.84	21.84	0.153	33.01	-11.17
	16-QAM	3840	-1.00	1 / 61	21.79	20.79	0.120	33.01	-12.22
	64-QAM	3840	-1.00	1 / 122	20.99	19.99	0.100	33.01	-13.02
	256-QAM	3935	-1.00	1 / 183	18.31	17.31	0.054	33.01	-15.70
	256-QAM	3935	-1.00	1 / 183	18.31	17.31	0.054	33.01	-15.70
	256-QAM	3935	-1.00	1 / 183	18.31	17.31	0.054	33.01	-15.70
100 MHz	$\pi/2$ BPSK	3750	-1.00	1 / 136	23.08	22.08	0.162	33.01	-10.93
		3840	-1.00	1 / 68	22.88	21.88	0.154	33.01	-11.13
		3930	-1.00	1 / 68	23.07	22.07	0.161	33.01	-10.94
	QPSK	3750	-1.00	1 / 204	23.15	22.15	0.164	33.01	-10.86
		3840	-1.00	1 / 68	23.20	22.20	0.166	33.01	-10.81
		3930	-1.00	1 / 68	23.00	22.00	0.159	33.01	-11.01
	16-QAM	3840	-1.00	1 / 136	22.05	21.05	0.127	33.01	-11.96
	64-QAM	3840	-1.00	1 / 204	20.78	19.78	0.095	33.01	-13.23
	256-QAM	3930	-1.00	1 / 204	18.60	17.60	0.058	33.01	-15.41
	256-QAM	3930	-1.00	1 / 204	18.60	17.60	0.058	33.01	-15.41
	256-QAM	3930	-1.00	1 / 204	18.60	17.60	0.058	33.01	-15.41

Table 7-9. EIRP Data (NR Band n77 (PC3) - C-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 146 of 171

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Version 2.0, 5/21/2021

7.6.3 Antenna 4 – EIRP


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	3460	1.10	1 / 37	26.52	27.62	0.578	33.01	-5.39
		3500	1.10	1 / 25	26.70	27.80	0.603	33.01	-5.21
		3540	1.10	1 / 13	26.51	27.61	0.577	33.01	-5.40
	QPSK	3460	1.10	1 / 37	26.24	27.34	0.542	33.01	-5.67
		3500	1.10	1 / 25	26.58	27.68	0.586	33.01	-5.33
		3540	1.10	1 / 25	26.30	27.40	0.550	33.01	-5.61
	16-QAM	3460	1.10	1 / 37	26.44	27.54	0.568	33.01	-5.47
	64-QAM	3460	1.10	1 / 37	25.88	26.98	0.499	33.01	-6.03
30 MHz	π/2 BPSK	3500	1.10	1 / 25	24.88	25.98	0.397	33.01	-7.03
		3465	1.10	1 / 19	26.63	27.73	0.594	33.01	-5.28
		3500	1.10	1 / 39	26.68	27.78	0.600	33.01	-5.23
	QPSK	3535	1.10	1 / 19	26.70	27.80	0.603	33.01	-5.21
		3465	1.10	1 / 58	26.44	27.54	0.568	33.01	-5.47
		3500	1.10	1 / 19	26.49	27.59	0.574	33.01	-5.42
	16-QAM	3535	1.10	1 / 58	26.29	27.39	0.548	33.01	-5.62
		3465	1.10	1 / 58	26.27	27.37	0.546	33.01	-5.64
40 MHz	π/2 BPSK	3500	1.10	1 / 39	24.91	26.01	0.399	33.01	-7.00
		3500	1.10	1 / 39	22.83	23.93	0.247	33.01	-9.08
		3470	1.10	1 / 79	26.53	27.63	0.580	33.01	-5.38
	QPSK	3500	1.10	1 / 79	26.64	27.74	0.594	33.01	-5.27
		3530	1.10	1 / 79	26.70	27.80	0.603	33.01	-5.21
		3470	1.10	1 / 53	26.24	27.34	0.542	33.01	-5.67
	16-QAM	3500	1.10	1 / 26	26.47	27.57	0.572	33.01	-5.44
		3530	1.10	1 / 26	26.68	27.78	0.600	33.01	-5.23
50 MHz	π/2 BPSK	3470	1.10	1 / 26	25.82	26.92	0.492	33.01	-6.09
		3500	1.10	1 / 26	24.91	26.01	0.399	33.01	-7.00
		3530	1.10	1 / 26	22.68	23.78	0.239	33.01	-9.23
	QPSK	3475	1.10	1 / 33	26.34	27.44	0.554	33.01	-5.57
		3500	1.10	1 / 33	26.64	27.74	0.595	33.01	-5.27
		3525	1.10	1 / 33	26.61	27.71	0.590	33.01	-5.30
	16-QAM	3475	1.10	1 / 33	26.39	27.49	0.561	33.01	-5.52
		3500	1.10	1 / 33	26.52	27.62	0.578	33.01	-5.39
60 MHz	π/2 BPSK	3525	1.10	1 / 99	26.70	27.80	0.603	33.01	-5.21
		3525	1.10	1 / 99	25.90	27.00	0.501	33.01	-6.01
		3500	1.10	1 / 99	24.76	25.86	0.385	33.01	-7.15
	QPSK	3500	1.10	1 / 99	22.73	23.83	0.242	33.01	-9.18
		3480	1.10	1 / 121	26.52	27.62	0.578	33.01	-5.39
		3500	1.10	1 / 81	26.70	27.80	0.603	33.01	-5.21
	16-QAM	3520	1.10	1 / 121	26.51	27.61	0.577	33.01	-5.40
		3480	1.10	1 / 40	26.22	27.32	0.540	33.01	-5.69
70 MHz	π/2 BPSK	3500	1.10	1 / 81	26.49	27.59	0.574	33.01	-5.42
		3520	1.10	1 / 121	26.53	27.63	0.579	33.01	-5.38
		3520	1.10	1 / 81	25.65	26.75	0.474	33.01	-6.26
	QPSK	3500	1.10	1 / 40	24.80	25.90	0.389	33.01	-7.11
		3500	1.10	1 / 40	22.74	23.84	0.242	33.01	-9.17
	16-QAM	3485	1.10	1 / 47	26.56	27.66	0.583	33.01	-5.35
		3500	1.10	1 / 94	26.70	27.80	0.603	33.01	-5.21
		3515	1.10	1 / 47	26.55	27.65	0.582	33.01	-5.36
80 MHz	π/2 BPSK	3485	1.10	1 / 94	26.14	27.24	0.529	33.01	-5.77
		3500	1.10	1 / 141	26.41	27.51	0.563	33.01	-5.50
		3515	1.10	1 / 47	26.08	27.18	0.522	33.01	-5.83
	QPSK	3500	1.10	1 / 94	25.86	26.96	0.496	33.01	-6.05
		3500	1.10	1 / 94	24.81	25.91	0.390	33.01	-7.10
		3500	1.10	1 / 94	22.72	23.82	0.241	33.01	-9.19
	16-QAM	3490	1.10	1 / 108	26.66	27.76	0.598	33.01	-5.25
		3500	1.10	1 / 108	26.70	27.80	0.603	33.01	-5.21
90 MHz	π/2 BPSK	3510	1.10	1 / 54	26.54	27.64	0.581	33.01	-5.37
		3490	1.10	1 / 54	26.27	27.37	0.545	33.01	-5.64
		3500	1.10	1 / 108	26.58	27.68	0.586	33.01	-5.33
	QPSK	3510	1.10	1 / 108	26.30	27.40	0.550	33.01	-5.61
		3500	1.10	1 / 162	25.94	27.04	0.506	33.01	-5.97
		3500	1.10	1 / 54	24.71	25.81	0.381	33.01	-7.20
	16-QAM	3500	1.10	1 / 54	22.72	23.82	0.241	33.01	-9.19
		3495	1.10	1 / 61	26.51	27.61	0.577	33.01	-5.40
100 MHz	π/2 BPSK	3500	1.10	1 / 122	26.70	27.80	0.603	33.01	-5.21
		3505	1.10	1 / 61	26.67	27.77	0.598	33.01	-5.24
		3495	1.10	1 / 183	26.62	27.72	0.591	33.01	-5.29
	QPSK	3500	1.10	1 / 122	26.58	27.68	0.587	33.01	-5.33
		3505	1.10	1 / 61	26.28	27.38	0.547	33.01	-5.63
		3500	1.10	1 / 61	25.91	27.01	0.503	33.01	-6.00
	16-QAM	3500	1.10	1 / 61	24.88	25.98	0.397	33.01	-7.03
		3500	1.10	1 / 61	22.80	23.90	0.246	33.01	-9.11
100 MHz	π/2 BPSK	3500	1.10	1 / 68	26.38	27.48	0.560	33.01	-5.53
		3500	1.10	1 / 68	26.42	27.52	0.565	33.01	-5.49
	16-QAM	3500	1.10	1 / 136	25.55	26.65	0.462	33.01	-6.36
		3500	1.10	1 / 68	24.78	25.88	0.388	33.01	-7.13
100 MHz	256-QAM	3500	1.10	1 / 68	22.71	23.81	0.241	33.01	-9.20

Table 7-10. EIRP Data (NR Band n77 (PC2) - DoD-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 147 of 171


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	3460	1.10	1 / 37	24.98	26.08	0.405	33.01	-6.93
		3500	1.10	1 / 37	25.70	26.80	0.479	33.01	-6.21
		3540	1.10	1 / 37	25.12	26.22	0.419	33.01	-6.79
	QPSK	3460	1.10	1 / 13	24.98	26.08	0.405	33.01	-6.93
		3500	1.10	1 / 25	25.34	26.44	0.441	33.01	-6.57
		3540	1.10	1 / 25	25.08	26.18	0.415	33.01	-6.83
	16-QAM	3500	1.10	1 / 25	24.45	25.55	0.359	33.01	-7.46
	64-QAM	3460	1.10	1 / 25	23.01	24.11	0.257	33.01	-8.91
	256-QAM	3500	1.10	1 / 37	20.55	21.65	0.146	33.01	-11.36
	256-QAM	3500	1.10	1 / 37	20.55	21.65	0.146	33.01	-11.36
30 MHz	$\pi/2$ BPSK	3465	1.10	1 / 39	25.58	26.68	0.466	33.01	-6.33
		3500	1.10	1 / 19	25.70	26.80	0.479	33.01	-6.21
		3535	1.10	1 / 58	25.05	26.15	0.412	33.01	-6.86
	QPSK	3465	1.10	1 / 58	25.65	26.75	0.473	33.01	-6.26
		3500	1.10	1 / 39	25.48	26.58	0.455	33.01	-6.43
		3535	1.10	1 / 58	25.34	26.44	0.441	33.01	-6.57
	16-QAM	3500	1.10	1 / 19	24.47	25.57	0.361	33.01	-7.44
	64-QAM	3465	1.10	1 / 19	23.21	24.31	0.270	33.01	-8.70
	256-QAM	3500	1.10	1 / 19	20.85	21.95	0.157	33.01	-11.06
	256-QAM	3500	1.10	1 / 19	20.85	21.95	0.157	33.01	-11.06
40 MHz	$\pi/2$ BPSK	3470	1.10	1 / 26	25.49	26.59	0.456	33.01	-6.42
		3500	1.10	1 / 53	25.58	26.68	0.466	33.01	-6.33
		3530	1.10	1 / 26	25.30	26.40	0.437	33.01	-6.61
	QPSK	3470	1.10	1 / 26	25.57	26.67	0.465	33.01	-6.34
		3500	1.10	1 / 53	25.62	26.72	0.470	33.01	-6.29
		3530	1.10	1 / 26	25.70	26.80	0.479	33.01	-6.21
	16-QAM	3500	1.10	1 / 53	24.53	25.63	0.366	33.01	-7.38
	64-QAM	3500	1.10	1 / 26	23.25	24.35	0.272	33.01	-8.66
	256-QAM	3470	1.10	1 / 79	20.75	21.85	0.153	33.01	-11.16
	256-QAM	3470	1.10	1 / 79	20.75	21.85	0.153	33.01	-11.16
50 MHz	$\pi/2$ BPSK	3475	1.10	1 / 66	25.70	26.80	0.479	33.01	-6.21
		3500	1.10	1 / 99	25.70	26.80	0.478	33.01	-6.21
		3525	1.10	1 / 99	25.57	26.67	0.464	33.01	-6.34
	QPSK	3475	1.10	1 / 33	25.69	26.79	0.477	33.01	-6.22
		3500	1.10	1 / 99	25.23	26.33	0.429	33.01	-6.68
		3525	1.10	1 / 33	25.51	26.61	0.458	33.01	-6.40
	16-QAM	3475	1.10	1 / 66	24.59	25.69	0.370	33.01	-7.32
	64-QAM	3525	1.10	1 / 33	23.98	25.08	0.322	33.01	-7.93
	256-QAM	3525	1.10	1 / 33	21.92	23.02	0.201	33.01	-9.99
	256-QAM	3525	1.10	1 / 33	21.92	23.02	0.201	33.01	-9.99
60 MHz	$\pi/2$ BPSK	3480	1.10	1 / 121	25.40	26.50	0.447	33.01	-6.51
		3500	1.10	1 / 121	25.46	26.56	0.453	33.01	-6.45
		3520	1.10	1 / 81	25.42	26.52	0.449	33.01	-6.49
	QPSK	3480	1.10	1 / 81	25.70	26.80	0.479	33.01	-6.21
		3500	1.10	1 / 40	25.65	26.75	0.473	33.01	-6.26
		3520	1.10	1 / 40	25.59	26.69	0.467	33.01	-6.32
	16-QAM	3500	1.10	1 / 81	24.88	25.98	0.396	33.01	-7.03
	64-QAM	3520	1.10	1 / 40	24.08	25.18	0.330	33.01	-7.83
	256-QAM	3520	1.10	1 / 40	22.05	23.15	0.207	33.01	-9.86
	256-QAM	3520	1.10	1 / 40	22.05	23.15	0.207	33.01	-9.86
70 MHz	$\pi/2$ BPSK	3485	1.10	1 / 47	25.38	26.48	0.445	33.01	-6.53
		3500	1.10	1 / 47	25.44	26.54	0.451	33.01	-6.47
		3515	1.10	1 / 47	25.13	26.23	0.419	33.01	-6.78
	QPSK	3485	1.10	1 / 94	25.39	26.49	0.445	33.01	-6.52
		3500	1.10	1 / 94	25.70	26.80	0.479	33.01	-6.21
		3515	1.10	1 / 47	25.53	26.63	0.460	33.01	-6.38
	16-QAM	3500	1.10	1 / 47	24.59	25.69	0.371	33.01	-7.32
	64-QAM	3515	1.10	1 / 94	24.04	25.14	0.327	33.01	-7.87
	256-QAM	3515	1.10	1 / 94	22.02	23.12	0.205	33.01	-9.89
	256-QAM	3515	1.10	1 / 94	22.02	23.12	0.205	33.01	-9.89
	256-QAM	3515	1.10	1 / 94	22.02	23.12	0.205	33.01	-9.89
80 MHz	$\pi/2$ BPSK	3490	1.10	1 / 54	25.64	26.74	0.472	33.01	-6.27
		3500	1.10	1 / 54	25.70	26.80	0.479	33.01	-6.21
		3510	1.10	1 / 108	25.26	26.36	0.433	33.01	-6.65
	QPSK	3490	1.10	1 / 108	25.62	26.72	0.470	33.01	-6.29
		3500	1.10	1 / 108	25.66	26.76	0.474	33.01	-6.25
		3510	1.10	1 / 54	25.64	26.74	0.472	33.01	-6.27
	16-QAM	3500	1.10	1 / 108	24.80	25.90	0.389	33.01	-7.11
	64-QAM	3510	1.10	1 / 108	24.11	25.21	0.332	33.01	-7.80
	256-QAM	3510	1.10	1 / 108	21.94	23.04	0.201	33.01	-9.97
	256-QAM	3510	1.10	1 / 108	21.94	23.04	0.201	33.01	-9.97
	256-QAM	3510	1.10	1 / 108	21.94	23.04	0.201	33.01	-9.97
90 MHz	$\pi/2$ BPSK	3495	1.10	1 / 183	25.66	26.76	0.474	33.01	-6.25
		3500	1.10	1 / 122	25.61	26.71	0.469	33.01	-6.30
		3505	1.10	1 / 61	25.58	26.68	0.465	33.01	-6.33
	QPSK	3495	1.10	1 / 122	25.61	26.71	0.469	33.01	-6.30
		3500	1.10	1 / 183	25.61	26.71	0.469	33.01	-6.30
		3505	1.10	1 / 61	25.70	26.80	0.479	33.01	-6.21
	16-QAM	3500	1.10	1 / 122	25.31	26.41	0.437	33.01	-6.60
	64-QAM	3505	1.10	1 / 183	24.06	25.16	0.328	33.01	-7.85
	256-QAM	3505	1.10	1 / 183	22.07	23.17	0.208	33.01	-9.84
	256-QAM	3505	1.10	1 / 183	22.07	23.17	0.208	33.01	-9.84
	256-QAM	3505	1.10	1 / 183	22.07	23.17	0.208	33.01	-9.84
100 MHz	$\pi/2$ BPSK	3500	1.10	1 / 204	25.70	26.80	0.479	33.01	-6.21
	QPSK	3500	1.10	1 / 204	25.23	26.33	0.429	33.01	-6.68
	16-QAM	3500	1.10	1 / 68	24.59	25.69	0.371	33.01	-7.32
	64-QAM	3500	1.10	1 / 204	24.58	25.68	0.370	33.01	-7.33
	256-QAM	3500	1.10	1 / 136	24.60	25.70	0.371	33.01	-7.31
100 MHz	256-QAM	3500	1.10	1 / 136	24.60	25.70	0.371	33.01	-7.31
	256-QAM	3500	1.10	1 / 136	24.60	25.70	0.371	33.01	-7.31
	256-QAM	3500	1.10	1 / 136	24.60	25.70	0.371	33.01	-7.31
	256-QAM	3500	1.10	1 / 136	24.60	25.70	0.371	33.01	-7.31
	256-QAM	3500	1.10	1 / 136	24.60	25.70	0.371	33.01	-7.31

Table 7-11. EIRP Data (NR Band n77 (PC3) - DoD-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 148 of 171


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	3710	1.10	1 / 37	26.59	27.69	0.587	33.01	-5.32
		3840	1.10	1 / 13	26.67	27.77	0.598	33.01	-5.24
		3970	1.10	1 / 25	26.62	27.72	0.592	33.01	-5.29
	QPSK	3710	1.10	1 / 25	26.58	27.68	0.586	33.01	-5.33
		3840	1.10	1 / 37	26.59	27.69	0.587	33.01	-5.32
		3970	1.10	1 / 13	26.70	27.80	0.603	33.01	-5.21
	16-QAM	3970	1.10	1 / 25	26.10	27.20	0.524	33.01	-5.81
	64-QAM	3840	1.10	1 / 13	24.60	25.70	0.371	33.01	-7.32
	256-QAM	3840	1.10	1 / 13	22.57	23.67	0.233	33.01	-9.34
	256-QAM	3840	1.10	1 / 13	22.57	23.67	0.233	33.01	-9.34
30 MHz	π/2 BPSK	3715	1.10	1 / 58	26.38	27.48	0.559	33.01	-5.53
		3840	1.10	1 / 19	26.61	27.71	0.590	33.01	-5.30
		3965	1.10	1 / 39	26.56	27.66	0.584	33.01	-5.35
	QPSK	3715	1.10	1 / 19	26.59	27.69	0.587	33.01	-5.32
		3840	1.10	1 / 19	26.52	27.62	0.578	33.01	-5.39
		3965	1.10	1 / 19	26.70	27.80	0.603	33.01	-5.21
	16-QAM	3840	1.10	1 / 39	26.11	27.21	0.526	33.01	-5.80
	64-QAM	3715	1.10	1 / 19	24.56	25.66	0.368	33.01	-7.35
	256-QAM	3840	1.10	1 / 19	22.88	23.98	0.250	33.01	-9.03
	256-QAM	3840	1.10	1 / 19	22.88	23.98	0.250	33.01	-9.03
	256-QAM	3840	1.10	1 / 19	22.88	23.98	0.250	33.01	-9.03
40 MHz	π/2 BPSK	3720	1.10	1 / 79	26.69	27.79	0.601	33.01	-5.22
		3840	1.10	1 / 53	26.64	27.74	0.595	33.01	-5.27
		3960	1.10	1 / 26	26.70	27.80	0.603	33.01	-5.21
	QPSK	3720	1.10	1 / 26	26.57	27.67	0.585	33.01	-5.34
		3840	1.10	1 / 79	26.57	27.67	0.585	33.01	-5.34
		3960	1.10	1 / 53	26.64	27.74	0.595	33.01	-5.27
	16-QAM	3840	1.10	1 / 79	26.06	27.16	0.520	33.01	-5.85
	64-QAM	3720	1.10	1 / 53	24.83	25.93	0.391	33.01	-7.08
	256-QAM	3840	1.10	1 / 26	22.63	23.73	0.236	33.01	-9.28
	256-QAM	3840	1.10	1 / 26	22.63	23.73	0.236	33.01	-9.28
	256-QAM	3840	1.10	1 / 26	22.63	23.73	0.236	33.01	-9.28
50 MHz	π/2 BPSK	3725	1.10	1 / 99	26.46	27.56	0.570	33.01	-5.45
		3840	1.10	1 / 99	26.58	27.68	0.586	33.01	-5.33
		3955	1.10	1 / 33	26.68	27.78	0.599	33.01	-5.23
	QPSK	3725	1.10	1 / 99	26.55	27.65	0.582	33.01	-5.36
		3840	1.10	1 / 99	26.70	27.80	0.603	33.01	-5.21
		3955	1.10	1 / 33	26.61	27.71	0.590	33.01	-5.30
	16-QAM	3840	1.10	1 / 99	26.13	27.23	0.528	33.01	-5.78
	64-QAM	3840	1.10	1 / 99	24.67	25.77	0.378	33.01	-7.24
	256-QAM	3840	1.10	1 / 99	22.81	23.91	0.246	33.01	-9.10
	256-QAM	3840	1.10	1 / 99	22.81	23.91	0.246	33.01	-9.10
	256-QAM	3840	1.10	1 / 99	22.81	23.91	0.246	33.01	-9.10
60 MHz	π/2 BPSK	3730	1.10	1 / 40	26.58	27.68	0.587	33.01	-5.33
		3840	1.10	1 / 121	26.60	27.70	0.589	33.01	-5.31
		3950	1.10	1 / 40	26.68	27.78	0.600	33.01	-5.23
	QPSK	3730	1.10	1 / 121	26.60	27.70	0.589	33.01	-5.31
		3840	1.10	1 / 81	26.70	27.80	0.603	33.01	-5.21
		3950	1.10	1 / 121	26.65	27.75	0.595	33.01	-5.26
	16-QAM	3840	1.10	1 / 121	26.07	27.17	0.521	33.01	-5.84
	64-QAM	3840	1.10	1 / 121	24.92	26.02	0.400	33.01	-6.99
	256-QAM	3840	1.10	1 / 121	23.02	24.12	0.258	33.01	-8.89
	256-QAM	3840	1.10	1 / 121	23.02	24.12	0.258	33.01	-8.89
	256-QAM	3840	1.10	1 / 121	23.02	24.12	0.258	33.01	-8.89
70 MHz	π/2 BPSK	3735	1.10	1 / 47	26.52	27.62	0.578	33.01	-5.39
		3840	1.10	1 / 47	26.68	27.78	0.600	33.01	-5.23
		3945	1.10	1 / 94	26.54	27.64	0.581	33.01	-5.37
	QPSK	3735	1.10	1 / 141	26.64	27.74	0.594	33.01	-5.27
		3840	1.10	1 / 47	26.59	27.69	0.588	33.01	-5.32
		3945	1.10	1 / 47	26.70	27.80	0.603	33.01	-5.21
	16-QAM	3840	1.10	1 / 94	25.99	27.09	0.512	33.01	-5.92
	64-QAM	3840	1.10	1 / 94	24.59	25.69	0.371	33.01	-7.32
	256-QAM	3840	1.10	1 / 141	22.68	23.78	0.239	33.01	-9.23
	256-QAM	3840	1.10	1 / 141	22.68	23.78	0.239	33.01	-9.23
	256-QAM	3840	1.10	1 / 141	22.68	23.78	0.239	33.01	-9.23
80 MHz	π/2 BPSK	3740	1.10	1 / 108	26.60	27.70	0.589	33.01	-5.31
		3840	1.10	1 / 162	26.70	27.80	0.603	33.01	-5.21
		3940	1.10	1 / 54	26.55	27.65	0.582	33.01	-5.36
	QPSK	3740	1.10	1 / 54	26.49	27.59	0.574	33.01	-5.42
		3840	1.10	1 / 108	26.53	27.63	0.580	33.01	-5.38
		3940	1.10	1 / 54	26.64	27.74	0.595	33.01	-5.27
	16-QAM	3740	1.10	1 / 108	25.76	26.86	0.485	33.01	-6.15
	64-QAM	3940	1.10	1 / 162	24.62	25.72	0.374	33.01	-7.29
	256-QAM	3940	1.10	1 / 54	22.58	23.68	0.233	33.01	-9.33
	256-QAM	3940	1.10	1 / 54	22.58	23.68	0.233	33.01	-9.33
	256-QAM	3940	1.10	1 / 54	22.58	23.68	0.233	33.01	-9.33
90 MHz	π/2 BPSK	3745	1.10	1 / 61	26.56	27.66	0.583	33.01	-5.35
		3840	1.10	1 / 122	26.70	27.80	0.603	33.01	-5.21
		3935	1.10	1 / 61	26.54	27.64	0.580	33.01	-5.37
	QPSK	3745	1.10	1 / 61	26.31	27.41	0.551	33.01	-5.60
		3840	1.10	1 / 122	26.53	27.63	0.579	33.01	-5.38
		3935	1.10	1 / 61	26.64	27.74	0.594	33.01	-5.27
	16-QAM	3745	1.10	1 / 183	26.48	27.58	0.573	33.01	-5.43
	64-QAM	3745	1.10	1 / 122	25.37	26.47	0.444	33.01	-6.54
	256-QAM	3935	1.10	1 / 61	23.34	24.44	0.278	33.01	-8.57
	256-QAM	3935	1.10	1 / 61	23.34	24.44	0.278	33.01	-8.57
	256-QAM	3935	1.10	1 / 61	23.34	24.44	0.278	33.01	-8.57
100 MHz	π/2 BPSK	3750	1.10	1 / 204	26.38	27.48	0.560	33.01	-5.53
		3840	1.10	1 / 204	26.68	27.78	0.599	33.01	-5.23
		3930	1.10	1 / 204	26.56	27.66	0.584	33.01	-5.35
	QPSK	3750	1.10	1 / 204	26.60	27.70	0.589	33.01	-5.31
		3840	1.10	1 / 68	26.55	27.65	0.582	33.01	-5.36
		3930	1.10	1 / 204	26.70	27.80	0.603	33.01	-5.21
	16-QAM	3930	1.10	1 / 136	26.09	27.19	0.524	33.01	-5.82
	64-QAM	3840	1.10	1 / 204	24.51	25.61	0.364	33.01	-7.40
	256-QAM	3930	1.10	1 / 68	22.63	23.73	0.236	33.01	-9.28
	256-QAM	3930	1.10	1 / 68	22.63	23.73	0.236	33.01	-9.28
	256-QAM	3930	1.10	1 / 68	22.63	23.73	0.236	33.01	-9.28

Table 7-12. EIRP Data (NR Band n77 (PC2) - C-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 149 of 171

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	3710	1.10	1 / 37	25.66	26.76	0.474	33.01	-6.25
		3840	1.10	1 / 37	25.64	26.74	0.472	33.01	-6.27
		3970	1.10	1 / 37	25.70	26.80	0.479	33.01	-6.21
	QPSK	3710	1.10	1 / 25	25.62	26.72	0.470	33.01	-6.29
		3840	1.10	1 / 13	25.56	26.66	0.463	33.01	-6.35
		3970	1.10	1 / 13	25.66	26.76	0.474	33.01	-6.25
	16-QAM	3840	1.10	1 / 25	24.86	25.96	0.394	33.01	-7.05
	64-QAM	3710	1.10	1 / 13	23.68	24.78	0.301	33.01	-8.23
	256-QAM	3840	1.10	1 / 37	21.55	22.65	0.184	33.01	-10.36
	256-QAM	3840	1.10	1 / 37	21.55	22.65	0.184	33.01	-10.36
30 MHz	$\pi/2$ BPSK	3715	1.10	1 / 19	25.50	26.60	0.457	33.01	-6.41
		3840	1.10	1 / 19	25.51	26.61	0.459	33.01	-6.40
		3965	1.10	1 / 19	25.70	26.80	0.479	33.01	-6.21
	QPSK	3715	1.10	1 / 39	25.66	26.76	0.474	33.01	-6.25
		3840	1.10	1 / 19	25.49	26.59	0.456	33.01	-6.42
		3965	1.10	1 / 58	25.29	26.39	0.435	33.01	-6.62
	16-QAM	3715	1.10	1 / 58	25.02	26.12	0.409	33.01	-6.89
	64-QAM	3715	1.10	1 / 19	23.68	24.78	0.301	33.01	-8.23
	256-QAM	3840	1.10	1 / 39	21.58	22.68	0.185	33.01	-10.33
	256-QAM	3840	1.10	1 / 39	21.58	22.68	0.185	33.01	-10.33
	256-QAM	3840	1.10	1 / 39	21.58	22.68	0.185	33.01	-10.33
40 MHz	$\pi/2$ BPSK	3720	1.10	1 / 79	25.66	26.76	0.474	33.01	-6.25
		3840	1.10	1 / 79	25.64	26.74	0.472	33.01	-6.27
		3960	1.10	1 / 79	25.70	26.80	0.479	33.01	-6.21
	QPSK	3720	1.10	1 / 53	25.24	26.34	0.430	33.01	-6.67
		3840	1.10	1 / 26	25.47	26.57	0.454	33.01	-6.44
		3960	1.10	1 / 53	25.69	26.79	0.477	33.01	-6.23
	16-QAM	3960	1.10	1 / 53	25.02	26.12	0.409	33.01	-6.89
	64-QAM	3960	1.10	1 / 53	23.82	24.92	0.310	33.01	-8.09
	256-QAM	3960	1.10	1 / 53	21.74	22.84	0.192	33.01	-10.17
	256-QAM	3960	1.10	1 / 53	21.74	22.84	0.192	33.01	-10.17
	256-QAM	3960	1.10	1 / 53	21.74	22.84	0.192	33.01	-10.17
50 MHz	$\pi/2$ BPSK	3725	1.10	1 / 66	25.70	26.80	0.478	33.01	-6.21
		3840	1.10	1 / 66	25.56	26.66	0.463	33.01	-6.35
		3955	1.10	1 / 33	25.46	26.56	0.453	33.01	-6.45
	QPSK	3725	1.10	1 / 99	25.52	26.62	0.460	33.01	-6.39
		3840	1.10	1 / 33	25.52	26.62	0.459	33.01	-6.39
		3955	1.10	1 / 99	25.70	26.80	0.479	33.01	-6.21
	16-QAM	3955	1.10	1 / 66	25.15	26.25	0.421	33.01	-6.76
	64-QAM	3955	1.10	1 / 66	23.56	24.66	0.292	33.01	-8.35
	256-QAM	3955	1.10	1 / 66	21.81	22.91	0.195	33.01	-10.10
	256-QAM	3955	1.10	1 / 66	21.81	22.91	0.195	33.01	-10.10
	256-QAM	3955	1.10	1 / 66	21.81	22.91	0.195	33.01	-10.10
60 MHz	$\pi/2$ BPSK	3730	1.10	1 / 81	25.61	26.71	0.469	33.01	-6.30
		3840	1.10	1 / 81	25.70	26.80	0.479	33.01	-6.21
		3950	1.10	1 / 121	25.30	26.40	0.436	33.01	-6.61
	QPSK	3730	1.10	1 / 81	25.62	26.72	0.470	33.01	-6.29
		3840	1.10	1 / 40	25.56	26.66	0.463	33.01	-6.35
		3950	1.10	1 / 40	25.66	26.76	0.474	33.01	-6.25
	16-QAM	3950	1.10	1 / 81	25.24	26.34	0.430	33.01	-6.67
	64-QAM	3840	1.10	1 / 40	23.87	24.97	0.314	33.01	-8.04
	256-QAM	3950	1.10	1 / 40	21.77	22.87	0.194	33.01	-10.14
	256-QAM	3950	1.10	1 / 40	21.77	22.87	0.194	33.01	-10.14
	256-QAM	3950	1.10	1 / 40	21.77	22.87	0.194	33.01	-10.14
70 MHz	$\pi/2$ BPSK	3735	1.10	1 / 141	25.51	26.61	0.458	33.01	-6.40
		3840	1.10	1 / 94	25.70	26.80	0.479	33.01	-6.21
		3945	1.10	1 / 94	25.49	26.59	0.457	33.01	-6.42
	QPSK	3735	1.10	1 / 94	25.14	26.24	0.420	33.01	-6.77
		3840	1.10	1 / 141	25.41	26.51	0.447	33.01	-6.50
		3945	1.10	1 / 141	25.67	26.77	0.476	33.01	-6.24
	16-QAM	3840	1.10	1 / 94	24.86	25.96	0.394	33.01	-7.05
	64-QAM	3840	1.10	1 / 47	23.79	24.89	0.308	33.01	-8.13
	256-QAM	3945	1.10	1 / 141	21.54	22.64	0.184	33.01	-10.37
	256-QAM	3945	1.10	1 / 141	21.54	22.64	0.184	33.01	-10.37
	256-QAM	3945	1.10	1 / 141	21.54	22.64	0.184	33.01	-10.37
80 MHz	$\pi/2$ BPSK	3740	1.10	1 / 54	25.57	26.67	0.465	33.01	-6.34
		3840	1.10	1 / 108	25.70	26.80	0.479	33.01	-6.21
		3940	1.10	1 / 162	25.59	26.69	0.466	33.01	-6.32
	QPSK	3740	1.10	1 / 108	25.53	26.63	0.460	33.01	-6.38
		3840	1.10	1 / 108	25.58	26.68	0.466	33.01	-6.33
		3940	1.10	1 / 54	25.68	26.78	0.477	33.01	-6.23
	16-QAM	3940	1.10	1 / 54	25.10	26.20	0.417	33.01	-6.81
	64-QAM	3740	1.10	1 / 108	23.78	24.88	0.308	33.01	-8.13
	256-QAM	3940	1.10	1 / 54	21.76	22.86	0.193	33.01	-10.15
	256-QAM	3940	1.10	1 / 54	21.76	22.86	0.193	33.01	-10.15
	256-QAM	3940	1.10	1 / 54	21.76	22.86	0.193	33.01	-10.15
90 MHz	$\pi/2$ BPSK	3745	1.10	1 / 183	25.26	26.36	0.433	33.01	-6.65
		3840	1.10	1 / 122	25.70	26.80	0.479	33.01	-6.21
		3935	1.10	1 / 61	25.67	26.77	0.475	33.01	-6.24
	QPSK	3745	1.10	1 / 122	25.70	26.80	0.479	33.01	-6.21
		3840	1.10	1 / 122	25.58	26.68	0.466	33.01	-6.33
		3935	1.10	1 / 61	25.28	26.38	0.434	33.01	-6.63
	16-QAM	3840	1.10	1 / 61	24.91	26.01	0.399	33.01	-7.00
	64-QAM	3745	1.10	1 / 122	23.70	24.80	0.302	33.01	-8.21
	256-QAM	3840	1.10	1 / 61	21.55	22.65	0.184	33.01	-10.36
	256-QAM	3840	1.10	1 / 61	21.55	22.65	0.184	33.01	-10.36
	256-QAM	3840	1.10	1 / 61	21.55	22.65	0.184	33.01	-10.36
100 MHz	$\pi/2$ BPSK	3750	1.10	1 / 204	25.70	26.80	0.479	33.01	-6.21
		3840	1.10	1 / 68	25.66	26.76	0.474	33.01	-6.25
		3930	1.10	1 / 68	25.45	26.55	0.451	33.01	-6.46
	QPSK	3750	1.10	1 / 136	25.48	26.58	0.455	33.01	-6.43
		3840	1.10	1 / 204	25.25	26.35	0.432	33.01	-6.66
		3930	1.10	1 / 68	25.59	26.69	0.467	33.01	-6.32
	16-QAM	3930	1.10	1 / 68	25.33	26.43	0.440	33.01	-6.68
	64-QAM	3930	1.10	1 / 68	23.73	24.83	0.304	33.01	-8.18
	256-QAM	3930	1.10	1 / 68	21.65	22.75	0.188	33.01	-10.26
	256-QAM	3930	1.10	1 / 68	21.65	22.75	0.188	33.01	-10.26
	256-QAM	3930	1.10	1 / 68	21.65	22.75	0.188	33.01	-10.26


Table 7-13. EIRP Data (NR Band n77 (PC3) - C-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 150 of 171

7.6.4 Antenna 1a – EIRP


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	3460	0.10	1 / 37	23.73	23.83	0.241	33.01	-9.18
		3500	0.10	1 / 25	24.06	24.16	0.260	33.01	-8.85
		3540	0.10	1 / 13	23.96	24.06	0.255	33.01	-8.95
	QPSK	3460	0.10	1 / 13	23.77	23.87	0.244	33.01	-9.14
		3500	0.10	1 / 25	24.08	24.18	0.262	33.01	-8.83
		3540	0.10	1 / 25	23.80	23.90	0.246	33.01	-9.11
	16-QAM	3500	0.10	1 / 37	23.44	23.54	0.226	33.01	-9.47
	64-QAM	3500	0.10	1 / 37	21.72	21.82	0.152	33.01	-11.19
30 MHz	π/2 BPSK	3465	0.10	1 / 19	24.00	24.10	0.257	33.01	-8.91
		3500	0.10	1 / 19	24.01	24.11	0.258	33.01	-8.90
		3535	0.10	1 / 19	24.20	24.30	0.269	33.01	-8.71
	QPSK	3465	0.10	1 / 39	23.41	23.51	0.224	33.01	-9.50
		3500	0.10	1 / 19	23.99	24.09	0.256	33.01	-8.92
		3535	0.10	1 / 58	23.79	23.89	0.245	33.01	-9.12
	16-QAM	3500	0.10	1 / 19	23.29	23.39	0.218	33.01	-9.62
	64-QAM	3535	0.10	1 / 58	21.92	22.02	0.159	33.01	-10.99
40 MHz	π/2 BPSK	3470	0.10	1 / 53	23.85	23.95	0.248	33.01	-9.06
		3500	0.10	1 / 79	24.14	24.24	0.265	33.01	-8.77
		3530	0.10	1 / 79	24.20	24.30	0.269	33.01	-8.71
	QPSK	3470	0.10	1 / 53	23.74	23.84	0.242	33.01	-9.17
		3500	0.10	1 / 26	23.97	24.07	0.255	33.01	-8.94
		3530	0.10	1 / 26	24.18	24.28	0.268	33.01	-8.73
	16-QAM	3470	0.10	1 / 26	23.32	23.42	0.220	33.01	-9.59
	64-QAM	3500	0.10	1 / 53	21.91	22.01	0.159	33.01	-11.00
50 MHz	π/2 BPSK	3475	0.10	1 / 99	23.73	23.83	0.241	33.01	-9.18
		3500	0.10	1 / 66	24.06	24.16	0.260	33.01	-8.85
		3525	0.10	1 / 33	23.96	24.06	0.255	33.01	-8.95
	QPSK	3475	0.10	1 / 33	23.89	23.99	0.250	33.01	-9.02
		3500	0.10	1 / 33	24.02	24.12	0.258	33.01	-8.89
		3525	0.10	1 / 99	24.20	24.30	0.269	33.01	-8.71
	16-QAM	3525	0.10	1 / 99	23.40	23.50	0.224	33.01	-9.51
	64-QAM	3525	0.10	1 / 33	22.04	22.14	0.164	33.01	-10.87
60 MHz	π/2 BPSK	3485	0.10	1 / 66	19.79	19.89	0.098	33.01	-13.12
		3500	0.10	1 / 121	24.02	24.12	0.258	33.01	-8.89
		3520	0.10	1 / 81	24.20	24.30	0.269	33.01	-8.71
	QPSK	3485	0.10	1 / 121	23.80	23.90	0.245	33.01	-9.11
		3500	0.10	1 / 40	23.72	23.82	0.241	33.01	-9.19
		3520	0.10	1 / 81	23.99	24.09	0.256	33.01	-8.92
	16-QAM	3520	0.10	1 / 121	24.03	24.13	0.259	33.01	-8.88
	64-QAM	3520	0.10	1 / 81	23.15	23.25	0.212	33.01	-9.76
70 MHz	π/2 BPSK	3485	0.10	1 / 121	21.92	22.02	0.159	33.01	-10.99
		3500	0.10	1 / 121	19.73	19.83	0.096	33.01	-13.18
		3520	0.10	1 / 121	19.73	19.83	0.096	33.01	-13.18
	QPSK	3485	0.10	1 / 94	23.93	24.03	0.253	33.01	-8.98
		3500	0.10	1 / 94	24.20	24.30	0.269	33.01	-8.71
		3515	0.10	1 / 94	23.99	24.09	0.257	33.01	-8.92
	16-QAM	3485	0.10	1 / 94	23.64	23.74	0.236	33.01	-9.27
	64-QAM	3500	0.10	1 / 141	23.91	24.01	0.252	33.01	-9.00
80 MHz	π/2 BPSK	3490	0.10	1 / 54	23.57	23.67	0.233	33.01	-9.34
		3500	0.10	1 / 47	23.36	23.46	0.222	33.01	-9.55
		3515	0.10	1 / 47	22.29	22.39	0.173	33.01	-10.63
	QPSK	3490	0.10	1 / 54	23.77	23.87	0.244	33.01	-9.14
		3500	0.10	1 / 108	24.08	24.18	0.262	33.01	-8.83
		3510	0.10	1 / 108	23.80	23.90	0.246	33.01	-9.11
	16-QAM	3500	0.10	1 / 162	23.44	23.54	0.226	33.01	-9.47
	64-QAM	3500	0.10	1 / 108	21.89	21.99	0.158	33.01	-11.02
90 MHz	π/2 BPSK	3495	0.10	1 / 162	19.82	19.92	0.098	33.01	-13.09
		3500	0.10	1 / 162	19.82	19.92	0.098	33.01	-13.09
		3510	0.10	1 / 162	19.82	19.92	0.098	33.01	-13.09
	QPSK	3495	0.10	1 / 183	23.74	23.84	0.242	33.01	-9.17
		3500	0.10	1 / 122	24.20	24.30	0.269	33.01	-8.71
		3505	0.10	1 / 61	24.17	24.27	0.267	33.01	-8.74
	16-QAM	3495	0.10	1 / 183	24.12	24.22	0.264	33.01	-8.79
	64-QAM	3500	0.10	1 / 122	24.08	24.18	0.262	33.01	-8.83
100 MHz	π/2 BPSK	3500	0.10	1 / 61	23.78	23.88	0.244	33.01	-9.13
		3505	0.10	1 / 61	23.41	23.51	0.224	33.01	-9.50
		3510	0.10	1 / 122	21.91	22.01	0.159	33.01	-11.00
	QPSK	3500	0.10	1 / 183	19.91	20.01	0.100	33.01	-13.00
		3505	0.10	1 / 183	19.91	20.01	0.100	33.01	-13.00
		3510	0.10	1 / 183	19.91	20.01	0.100	33.01	-13.00
	16-QAM	3500	0.10	1 / 68	23.88	23.98	0.250	33.01	-9.03
	64-QAM	3500	0.10	1 / 204	23.75	23.85	0.243	33.01	-9.16
100 MHz	π/2 BPSK	3500	0.10	1 / 136	23.05	23.15	0.207	33.01	-9.86
		3500	0.10	1 / 204	21.72	21.82	0.152	33.01	-11.19
		3500	0.10	1 / 204	21.50	21.60	0.145	33.01	-11.41
	256-QAM	3500	0.10	1 / 204	19.67	19.77	0.095	33.01	-13.24

Table 7-14. EIRP Data (NR Band n77 (PC2) - DoD-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 151 of 171


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	3460	0.10	1 / 37	23.48	23.58	0.228	33.01	-9.43
		3500	0.10	1 / 37	24.20	24.30	0.269	33.01	-8.71
		3540	0.10	1 / 37	23.62	23.72	0.235	33.01	-9.29
	QPSK	3460	0.10	1 / 13	23.48	23.58	0.228	33.01	-9.43
		3500	0.10	1 / 25	23.84	23.94	0.248	33.01	-9.07
		3540	0.10	1 / 25	23.58	23.68	0.233	33.01	-9.33
	16-QAM	3500	0.10	1 / 25	22.95	23.05	0.202	33.01	-9.96
	64-QAM	3460	0.10	1 / 25	21.51	21.61	0.145	33.01	-11.41
	256-QAM	3500	0.10	1 / 13	19.05	19.15	0.082	33.01	-13.86
	256-QAM	3500	0.10	1 / 19	19.35	19.45	0.088	33.01	-13.56
30 MHz	$\pi/2$ BPSK	3465	0.10	1 / 39	24.08	24.18	0.262	33.01	-8.83
		3500	0.10	1 / 19	24.20	24.30	0.269	33.01	-8.71
		3535	0.10	1 / 58	23.55	23.65	0.232	33.01	-9.36
	QPSK	3465	0.10	1 / 58	24.15	24.25	0.266	33.01	-8.76
		3500	0.10	1 / 39	23.98	24.08	0.256	33.01	-8.93
		3535	0.10	1 / 58	23.84	23.94	0.248	33.01	-9.07
	16-QAM	3500	0.10	1 / 19	22.97	23.07	0.203	33.01	-9.94
	64-QAM	3465	0.10	1 / 19	21.71	21.81	0.152	33.01	-11.20
	256-QAM	3500	0.10	1 / 19	19.35	19.45	0.088	33.01	-13.56
	256-QAM	3500	0.10	1 / 26	19.25	19.35	0.086	33.01	-13.66
40 MHz	$\pi/2$ BPSK	3470	0.10	1 / 26	23.99	24.09	0.256	33.01	-8.92
		3500	0.10	1 / 53	24.08	24.18	0.262	33.01	-8.83
		3530	0.10	1 / 26	23.80	23.90	0.246	33.01	-9.11
	QPSK	3470	0.10	1 / 26	24.07	24.17	0.261	33.01	-8.84
		3500	0.10	1 / 53	24.12	24.22	0.264	33.01	-8.79
		3530	0.10	1 / 26	24.20	24.30	0.269	33.01	-8.71
	16-QAM	3500	0.10	1 / 53	23.03	23.13	0.206	33.01	-9.88
	64-QAM	3500	0.10	1 / 26	21.75	21.85	0.153	33.01	-11.16
	256-QAM	3470	0.10	1 / 26	19.25	19.35	0.086	33.01	-13.66
	256-QAM	3500	0.10	1 / 26	19.25	19.35	0.086	33.01	-13.66
50 MHz	$\pi/2$ BPSK	3475	0.10	1 / 66	24.20	24.30	0.269	33.01	-8.71
		3500	0.10	1 / 99	24.20	24.30	0.269	33.01	-8.71
		3525	0.10	1 / 99	24.07	24.17	0.261	33.01	-8.84
	QPSK	3475	0.10	1 / 33	24.19	24.29	0.268	33.01	-8.72
		3500	0.10	1 / 99	23.73	23.83	0.241	33.01	-9.18
		3525	0.10	1 / 66	23.96	24.06	0.255	33.01	-8.95
	16-QAM	3475	0.10	1 / 66	23.09	23.19	0.208	33.01	-9.82
	64-QAM	3500	0.10	1 / 33	21.93	22.03	0.160	33.01	-10.98
	256-QAM	3500	0.10	1 / 33	19.40	19.50	0.089	33.01	-13.51
	256-QAM	3500	0.10	1 / 40	19.39	19.49	0.089	33.01	-13.52
60 MHz	$\pi/2$ BPSK	3480	0.10	1 / 121	23.90	24.00	0.251	33.01	-9.01
		3500	0.10	1 / 121	23.96	24.06	0.255	33.01	-8.95
		3520	0.10	1 / 81	23.92	24.02	0.252	33.01	-8.99
	QPSK	3480	0.10	1 / 81	24.20	24.30	0.269	33.01	-8.71
		3500	0.10	1 / 40	24.15	24.25	0.266	33.01	-8.76
		3520	0.10	1 / 121	23.35	23.45	0.221	33.01	-9.56
	16-QAM	3500	0.10	1 / 81	23.38	23.48	0.223	33.01	-9.53
	64-QAM	3500	0.10	1 / 81	21.85	21.95	0.157	33.01	-11.06
	256-QAM	3500	0.10	1 / 40	19.39	19.49	0.089	33.01	-13.52
	256-QAM	3500	0.10	1 / 40	19.39	19.49	0.089	33.01	-13.52
70 MHz	$\pi/2$ BPSK	3485	0.10	1 / 47	23.88	23.98	0.250	33.01	-9.03
		3500	0.10	1 / 47	23.94	24.04	0.254	33.01	-8.97
		3515	0.10	1 / 47	23.63	23.73	0.236	33.01	-9.28
	QPSK	3485	0.10	1 / 94	23.89	23.99	0.250	33.01	-9.02
		3500	0.10	1 / 94	24.20	24.30	0.269	33.01	-8.71
		3515	0.10	1 / 94	23.47	23.57	0.228	33.01	-9.44
	16-QAM	3500	0.10	1 / 47	23.09	23.19	0.208	33.01	-9.82
	64-QAM	3485	0.10	1 / 94	21.36	21.46	0.140	33.01	-11.55
	256-QAM	3500	0.10	1 / 47	19.16	19.26	0.084	33.01	-13.75
	256-QAM	3500	0.10	1 / 47	19.16	19.26	0.084	33.01	-13.75
	256-QAM	3500	0.10	1 / 54	19.42	19.52	0.089	33.01	-13.49
80 MHz	$\pi/2$ BPSK	3490	0.10	1 / 54	24.14	24.24	0.265	33.01	-8.77
		3500	0.10	1 / 54	24.20	24.30	0.269	33.01	-8.71
		3510	0.10	1 / 108	23.76	23.86	0.243	33.01	-9.15
	QPSK	3490	0.10	1 / 108	24.12	24.22	0.264	33.01	-8.79
		3500	0.10	1 / 108	24.16	24.26	0.267	33.01	-8.75
		3510	0.10	1 / 108	24.01	24.11	0.258	33.01	-8.90
	16-QAM	3500	0.10	1 / 108	23.30	23.40	0.219	33.01	-9.61
	64-QAM	3500	0.10	1 / 54	21.92	22.02	0.159	33.01	-10.99
	256-QAM	3500	0.10	1 / 54	19.42	19.52	0.089	33.01	-13.49
	256-QAM	3500	0.10	1 / 68	19.42	19.52	0.089	33.01	-13.49
90 MHz	$\pi/2$ BPSK	3495	0.10	1 / 183	24.16	24.26	0.267	33.01	-8.75
		3500	0.10	1 / 122	24.11	24.21	0.263	33.01	-8.80
		3505	0.10	1 / 61	24.08	24.18	0.262	33.01	-8.83
	QPSK	3495	0.10	1 / 122	24.11	24.21	0.264	33.01	-8.80
		3500	0.10	1 / 183	24.11	24.21	0.264	33.01	-8.80
		3505	0.10	1 / 61	24.20	24.30	0.269	33.01	-8.71
	16-QAM	3500	0.10	1 / 122	23.81	23.91	0.246	33.01	-9.10
	64-QAM	3495	0.10	1 / 61	22.10	22.20	0.166	33.01	-10.81
	256-QAM	3500	0.10	1 / 61	19.69	19.79	0.095	33.01	-13.22
	256-QAM	3500	0.10	1 / 68	24.20	24.30	0.269	33.01	-8.71
	256-QAM	3500	0.10	1 / 68	24.15	24.25	0.266	33.01	-8.76
100 MHz	16-QAM	3500	0.10	1 / 68	22.97	23.07	0.203	33.01	-9.94
	64-QAM	3500	0.10	1 / 68	21.92	22.02	0.159	33.01	-10.99
	256-QAM	N/A	0.10	1 / 68	21.20	21.30	0.135	33.01	-11.71
	256-QAM	3500	0.10	1 / 68	19.42	19.52	0.089	33.01	-13.49
	256-QAM	3500	0.10	1 / 68	19.42	19.52	0.089	33.01	-13.49
	256-QAM	3500	0.10	1 / 68	19.42	19.52	0.089	33.01	-13.49

Table 7-15. EIRP Data (NR Band n77 (PC3) - DoD-Band)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 152 of 171


Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	3710	0.10	1 / 37	23.94	24.04	0.254	33.01	-8.97
		3840	0.10	1 / 37	24.20	24.30	0.269	33.01	-8.71
		3970	0.10	1 / 25	24.16	24.26	0.267	33.01	-8.75
	QPSK	3710	0.10	1 / 13	23.73	23.83	0.242	33.01	-9.18
		3840	0.10	1 / 13	24.09	24.19	0.262	33.01	-8.82
		3970	0.10	1 / 37	23.75	23.85	0.243	33.01	-9.16
	16-QAM	3840	0.10	1 / 13	23.50	23.60	0.229	33.01	-9.41
		3970	0.10	1 / 13	21.75	21.85	0.153	33.01	-11.16
	64-QAM	3970	0.10	1 / 25	19.56	19.66	0.093	33.01	-13.35
	256-QAM	3970	0.10	1 / 25	19.56	19.66	0.093	33.01	-13.35
30 MHz	$\pi/2$ BPSK	3715	0.10	1 / 19	23.61	23.71	0.235	33.01	-9.30
		3840	0.10	1 / 39	24.19	24.29	0.268	33.01	-8.72
		3965	0.10	1 / 58	24.02	24.12	0.258	33.01	-8.89
	QPSK	3715	0.10	1 / 19	23.86	23.96	0.249	33.01	-9.05
		3840	0.10	1 / 58	24.20	24.30	0.269	33.01	-8.71
		3965	0.10	1 / 58	24.01	24.11	0.257	33.01	-8.90
	16-QAM	3965	0.10	1 / 58	22.74	22.84	0.192	33.01	-10.17
		3840	0.10	1 / 58	21.95	22.05	0.160	33.01	-10.96
	64-QAM	3840	0.10	1 / 58	21.95	22.05	0.160	33.01	-10.96
	256-QAM	3965	0.10	1 / 19	19.77	19.87	0.097	33.01	-13.14
40 MHz	$\pi/2$ BPSK	3720	0.10	1 / 79	23.78	23.88	0.244	33.01	-9.13
		3840	0.10	1 / 79	24.02	24.12	0.258	33.01	-8.89
		3960	0.10	1 / 26	23.86	23.96	0.249	33.01	-9.05
	QPSK	3720	0.10	1 / 53	23.51	23.61	0.230	33.01	-9.40
		3840	0.10	1 / 79	24.20	24.30	0.269	33.01	-8.71
		3960	0.10	1 / 79	24.17	24.27	0.268	33.01	-8.74
	16-QAM	3960	0.10	1 / 26	23.09	23.19	0.208	33.01	-9.82
		3960	0.10	1 / 79	21.77	21.87	0.154	33.01	-11.14
	64-QAM	3960	0.10	1 / 79	21.77	21.87	0.154	33.01	-11.14
	256-QAM	3840	0.10	1 / 79	19.80	19.90	0.098	33.01	-13.11
50 MHz	$\pi/2$ BPSK	3725	0.10	1 / 99	23.62	23.72	0.235	33.01	-9.29
		3840	0.10	1 / 99	23.93	24.03	0.253	33.01	-8.98
		3955	0.10	1 / 66	23.94	24.04	0.253	33.01	-8.97
	QPSK	3725	0.10	1 / 99	23.81	23.91	0.246	33.01	-9.10
		3840	0.10	1 / 99	24.01	24.11	0.257	33.01	-8.91
		3955	0.10	1 / 99	23.90	24.00	0.251	33.01	-9.01
	16-QAM	3840	0.10	1 / 99	22.91	23.01	0.200	33.01	-10.00
		3840	0.10	1 / 66	21.91	22.01	0.159	33.01	-11.00
	64-QAM	3840	0.10	1 / 66	21.91	22.01	0.159	33.01	-11.00
	256-QAM	3840	0.10	1 / 66	19.89	19.99	0.100	33.01	-13.02
60 MHz	$\pi/2$ BPSK	3730	0.10	1 / 121	23.79	23.89	0.245	33.01	-9.12
		3840	0.10	1 / 81	24.20	24.30	0.269	33.01	-8.71
		3950	0.10	1 / 81	24.20	24.30	0.269	33.01	-8.71
	QPSK	3730	0.10	1 / 121	23.70	23.80	0.240	33.01	-9.21
		3840	0.10	1 / 121	24.17	24.27	0.268	33.01	-8.74
		3950	0.10	1 / 81	23.89	23.99	0.251	33.01	-9.02
	16-QAM	3840	0.10	1 / 40	23.04	23.14	0.206	33.01	-9.87
		3840	0.10	1 / 81	21.75	21.85	0.153	33.01	-11.16
	64-QAM	3840	0.10	1 / 81	21.75	21.85	0.153	33.01	-11.16
	256-QAM	3840	0.10	1 / 121	19.74	19.84	0.096	33.01	-13.17
70 MHz	$\pi/2$ BPSK	3735	0.10	1 / 141	23.80	23.90	0.246	33.01	-9.11
		3840	0.10	1 / 141	24.20	24.30	0.269	33.01	-8.71
		3945	0.10	1 / 141	24.09	24.19	0.262	33.01	-8.83
	QPSK	3735	0.10	1 / 47	23.88	23.98	0.250	33.01	-9.03
		3840	0.10	1 / 94	24.08	24.18	0.262	33.01	-8.83
		3945	0.10	1 / 141	23.95	24.05	0.254	33.01	-8.96
	16-QAM	3840	0.10	1 / 47	22.90	23.00	0.200	33.01	-10.01
		3945	0.10	1 / 141	21.87	21.97	0.157	33.01	-11.04
	64-QAM	3945	0.10	1 / 141	21.87	21.97	0.157	33.01	-11.04
	256-QAM	3840	0.10	1 / 94	19.70	19.80	0.096	33.01	-13.21
80 MHz	$\pi/2$ BPSK	3740	0.10	1 / 54	23.73	23.83	0.241	33.01	-9.18
		3840	0.10	1 / 54	24.20	24.30	0.269	33.01	-8.71
		3940	0.10	1 / 54	24.18	24.28	0.268	33.01	-8.73
	QPSK	3740	0.10	1 / 162	23.46	23.56	0.227	33.01	-9.45
		3840	0.10	1 / 162	24.20	24.30	0.269	33.01	-8.71
		3940	0.10	1 / 54	24.11	24.21	0.264	33.01	-8.80
	16-QAM	3940	0.10	1 / 54	23.09	23.19	0.208	33.01	-9.82
		3940	0.10	1 / 108	21.70	21.80	0.151	33.01	-11.21
	64-QAM	3940	0.10	1 / 108	21.70	21.80	0.151	33.01	-11.21
	256-QAM	3840	0.10	1 / 108	19.88	19.98	0.100	33.01	-13.03
90 MHz	$\pi/2$ BPSK	3745	0.10	1 / 122	23.87	23.97	0.249	33.01	-9.04
		3840	0.10	1 / 61	24.12	24.22	0.264	33.01	-8.79
		3935	0.10	1 / 61	24.20	24.30	0.269	33.01	-8.71
	QPSK	3745	0.10	1 / 122	23.80	23.90	0.245	33.01	-9.11
		3840	0.10	1 / 122	24.08	24.18	0.262	33.01	-8.83
		3935	0.10	1 / 61	24.17	24.27	0.267	33.01	-8.74
	16-QAM	3840	0.10	1 / 122	22.98	23.08	0.203	33.01	-9.93
		3935	0.10	1 / 183	21.68	21.78	0.151	33.01	-11.23
	64-QAM	3935	0.10	1 / 183	21.68	21.78	0.151	33.01	-11.23
	256-QAM	3840	0.10	1 / 122	19.78	19.88	0.097	33.01	-13.13
100 MHz	$\pi/2$ BPSK	3750	0.10	1 / 204	24.19	24.29	0.268	33.01	-8.72
		3840	0.10	1 / 68	24.19	24.29	0.269	33.01	-8.72
		3930	0.10	1 / 68	24.03	24.13	0.259	33.01	-8.88
	QPSK	3750	0.10	1 / 204	24.19	24.29	0.269	33.01	-8.72
		3840	0.10	1 / 68	24.20	24.30	0.269	33.01	-8.71
		3930	0.10	1 / 136	24.09	24.19	0.262	33.01	-8.82
	16-QAM	3750	0.10	1 / 204	23.46	23.56	0.227	33.01	-9.45
		3840	0.10	1 / 204	21.91	22.01	0.159	33.01	-11.00
	64-QAM	3840	0.10	1 / 204	21.91	22.01	0.159	33.01	-11.00
	256-QAM	3750	0.10	1 / 204	20.41	20.51	0.112	33.01	-12.50

Table 7-16. EIRP Data (NR Band n77 (PC2) - C-Band)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	3710	0.10	1 / 37	23.74	23.84	0.242	33.01	-9.17
		3840	0.10	1 / 25	24.20	24.30	0.269	33.01	-8.71
		3970	0.10	1 / 13	24.17	24.27	0.267	33.01	-8.74
	QPSK	3710	0.10	1 / 13	23.47	23.57	0.227	33.01	-9.44
		3840	0.10	1 / 37	23.75	23.85	0.243	33.01	-9.16
		3970	0.10	1 / 37	23.69	23.79	0.239	33.01	-9.22
	16-QAM	3970	0.10	1 / 25	23.15	23.25	0.212	33.01	-9.76
	64-QAM	3840	0.10	1 / 13	22.29	22.39	0.173	33.01	-10.63
	256-QAM	3970	0.10	1 / 37	19.83	19.93	0.098	33.01	-13.08
	256-QAM	3970	0.10	1 / 37	19.83	19.93	0.098	33.01	-13.08
30 MHz	$\pi/2$ BPSK	3715	0.10	1 / 19	24.00	24.10	0.257	33.01	-8.91
		3840	0.10	1 / 19	24.01	24.11	0.258	33.01	-8.90
		3965	0.10	1 / 19	24.20	24.30	0.269	33.01	-8.71
	QPSK	3715	0.10	1 / 39	23.41	23.51	0.224	33.01	-9.50
		3840	0.10	1 / 19	23.99	24.09	0.256	33.01	-8.92
		3965	0.10	1 / 58	23.79	23.89	0.245	33.01	-9.12
	16-QAM	3840	0.10	1 / 19	23.29	23.39	0.218	33.01	-9.62
	64-QAM	3965	0.10	1 / 58	21.92	22.02	0.159	33.01	-10.99
	256-QAM	3840	0.10	1 / 58	19.67	19.77	0.095	33.01	-13.24
	256-QAM	3840	0.10	1 / 58	19.67	19.77	0.095	33.01	-13.24
	256-QAM	3840	0.10	1 / 58	19.67	19.77	0.095	33.01	-13.24
40 MHz	$\pi/2$ BPSK	3720	0.10	1 / 53	23.85	23.95	0.248	33.01	-9.06
		3840	0.10	1 / 79	24.14	24.24	0.265	33.01	-8.77
		3960	0.10	1 / 79	24.20	24.30	0.269	33.01	-8.71
	QPSK	3720	0.10	1 / 53	23.74	23.84	0.242	33.01	-9.17
		3840	0.10	1 / 26	23.97	24.07	0.255	33.01	-8.94
		3960	0.10	1 / 26	24.18	24.28	0.268	33.01	-8.73
	16-QAM	3720	0.10	1 / 26	23.32	23.42	0.220	33.01	-9.59
	64-QAM	3840	0.10	1 / 53	21.91	22.01	0.159	33.01	-11.00
	256-QAM	3960	0.10	1 / 79	19.83	19.93	0.098	33.01	-13.08
	256-QAM	3960	0.10	1 / 79	19.83	19.93	0.098	33.01	-13.08
	256-QAM	3960	0.10	1 / 79	19.83	19.93	0.098	33.01	-13.08
50 MHz	$\pi/2$ BPSK	3725	0.10	1 / 99	23.73	23.83	0.241	33.01	-9.18
		3840	0.10	1 / 66	24.06	24.16	0.260	33.01	-8.85
		3955	0.10	1 / 33	23.96	24.06	0.255	33.01	-8.95
	QPSK	3725	0.10	1 / 33	23.89	23.99	0.250	33.01	-9.02
		3840	0.10	1 / 33	24.02	24.12	0.258	33.01	-8.89
		3955	0.10	1 / 99	24.20	24.30	0.269	33.01	-8.71
	16-QAM	3955	0.10	1 / 99	23.40	23.50	0.224	33.01	-9.51
	64-QAM	3955	0.10	1 / 33	22.04	22.14	0.164	33.01	-10.87
	256-QAM	3955	0.10	1 / 66	19.79	19.89	0.098	33.01	-13.12
	256-QAM	3955	0.10	1 / 66	19.79	19.89	0.098	33.01	-13.12
	256-QAM	3955	0.10	1 / 66	19.79	19.89	0.098	33.01	-13.12
60 MHz	$\pi/2$ BPSK	3730	0.10	1 / 121	24.02	24.12	0.258	33.01	-8.89
		3840	0.10	1 / 81	24.20	24.30	0.269	33.01	-8.71
		3950	0.10	1 / 121	23.80	23.90	0.245	33.01	-9.11
	QPSK	3730	0.10	1 / 40	23.72	23.82	0.241	33.01	-9.19
		3840	0.10	1 / 81	23.99	24.09	0.256	33.01	-8.92
		3950	0.10	1 / 121	24.03	24.13	0.259	33.01	-8.88
	16-QAM	3950	0.10	1 / 81	23.15	23.25	0.212	33.01	-9.76
	64-QAM	3840	0.10	1 / 121	21.92	22.02	0.159	33.01	-10.99
	256-QAM	3950	0.10	1 / 121	19.73	19.83	0.096	33.01	-13.18
	256-QAM	3950	0.10	1 / 121	19.73	19.83	0.096	33.01	-13.18
	256-QAM	3950	0.10	1 / 121	19.73	19.83	0.096	33.01	-13.18
70 MHz	$\pi/2$ BPSK	3735	0.10	1 / 94	23.93	24.03	0.253	33.01	-8.98
		3840	0.10	1 / 94	24.20	24.30	0.269	33.01	-8.71
		3945	0.10	1 / 94	23.99	24.09	0.257	33.01	-8.92
	QPSK	3735	0.10	1 / 94	23.64	23.74	0.236	33.01	-9.27
		3840	0.10	1 / 141	23.91	24.01	0.252	33.01	-9.00
		3945	0.10	1 / 47	23.57	23.67	0.233	33.01	-9.34
	16-QAM	3840	0.10	1 / 94	23.36	23.46	0.222	33.01	-9.55
	64-QAM	3840	0.10	1 / 47	22.29	22.39	0.173	33.01	-10.63
	256-QAM	3840	0.10	1 / 94	19.92	20.02	0.100	33.01	-12.99
	256-QAM	3840	0.10	1 / 94	19.92	20.02	0.100	33.01	-12.99
	256-QAM	3840	0.10	1 / 94	19.92	20.02	0.100	33.01	-12.99
80 MHz	$\pi/2$ BPSK	3740	0.10	1 / 54	24.07	24.17	0.261	33.01	-8.84
		3840	0.10	1 / 108	24.20	24.30	0.269	33.01	-8.71
		3940	0.10	1 / 54	23.87	23.97	0.249	33.01	-9.04
	QPSK	3740	0.10	1 / 54	23.77	23.87	0.244	33.01	-9.14
		3840	0.10	1 / 108	24.08	24.18	0.262	33.01	-8.83
		3940	0.10	1 / 108	23.80	23.90	0.246	33.01	-9.11
	16-QAM	3840	0.10	1 / 162	23.44	23.54	0.226	33.01	-9.47
	64-QAM	3840	0.10	1 / 108	21.89	21.99	0.158	33.01	-11.02
	256-QAM	3840	0.10	1 / 162	19.82	19.92	0.098	33.01	-13.09
	256-QAM	3840	0.10	1 / 162	19.82	19.92	0.098	33.01	-13.09
	256-QAM	3840	0.10	1 / 162	19.82	19.92	0.098	33.01	-13.09
90 MHz	$\pi/2$ BPSK	3745	0.10	1 / 183	23.74	23.84	0.242	33.01	-9.17
		3840	0.10	1 / 122	24.20	24.30	0.269	33.01	-8.71
		3935	0.10	1 / 61	24.17	24.27	0.267	33.01	-8.74
	QPSK	3745	0.10	1 / 183	24.12	24.22	0.264	33.01	-8.79
		3840	0.10	1 / 122	24.08	24.18	0.262	33.01	-8.83
		3935	0.10	1 / 61	23.78	23.88	0.244	33.01	-9.13
	16-QAM	3840	0.10	1 / 61	23.41	23.51	0.224	33.01	-9.50
	64-QAM	3840	0.10	1 / 122	21.91	22.01	0.159	33.01	-11.00
	256-QAM	3935	0.10	1 / 183	19.91	20.01	0.100	33.01	-13.00
	256-QAM	3935	0.10	1 / 183	19.91	20.01	0.100	33.01	-13.00
	256-QAM	3935	0.10	1 / 183	19.91	20.01	0.100	33.01	-13.00
100 MHz	$\pi/2$ BPSK	3750	0.10	1 / 204	24.20	24.30	0.269	33.01	-8.71
		3840	0.10	1 / 68	23.88	23.98	0.250	33.01	-9.03
		3930	0.10	1 / 68	23.95	24.05	0.254	33.01	-8.96
	QPSK	3750	0.10	1 / 68	23.47	23.57	0.227	33.01	-9.44
		3840	0.10	1 / 204	23.75	23.85	0.243	33.01	-9.16
		3930	0.10	1 / 204	23.69	23.79	0.239	33.01	-9.22
	16-QAM	3930	0.10	1 / 204	23.26	23.36	0.217	33.01	-9.65
	64-QAM	3840	0.10	1 / 204	21.72	21.82	0.152	33.01	-11.19
	256-QAM	3840	0.10	1 / 204	19.67	19.77	0.095	33.01	-13.24
	256-QAM	3840	0.10	1 / 204	19.67	19.77	0.095	33.01	-13.24
	256-QAM	3840	0.10	1 / 204	19.67	19.77	0.095	33.01	-13.24

Table 7-17. EIRP Data (NR Band n77 (PC3) - C-Band)

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7.7 Radiated Spurious Emissions Measurements

§2.1053, §27.53(l), §27.53(n)

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.

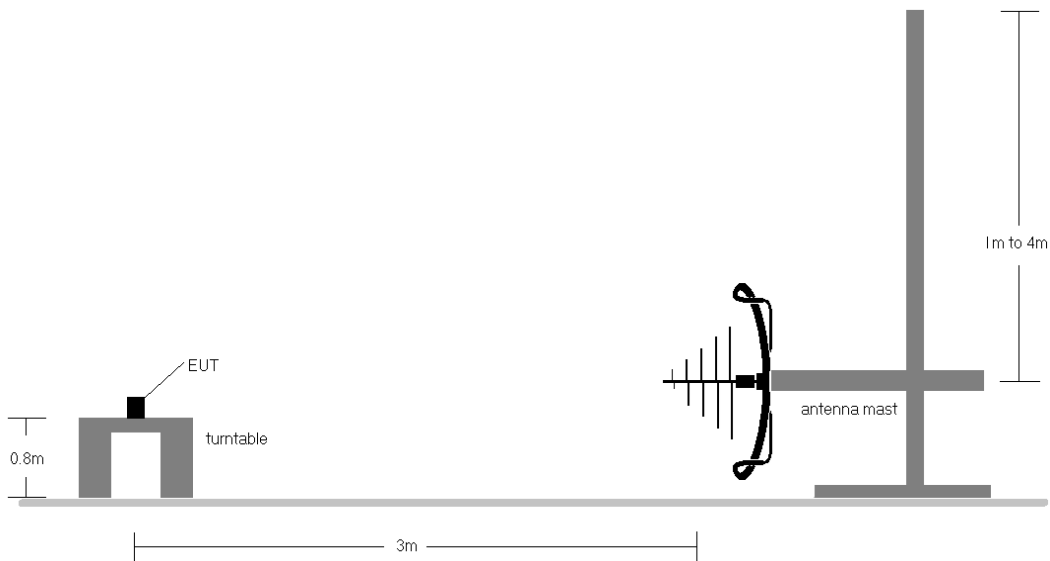


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

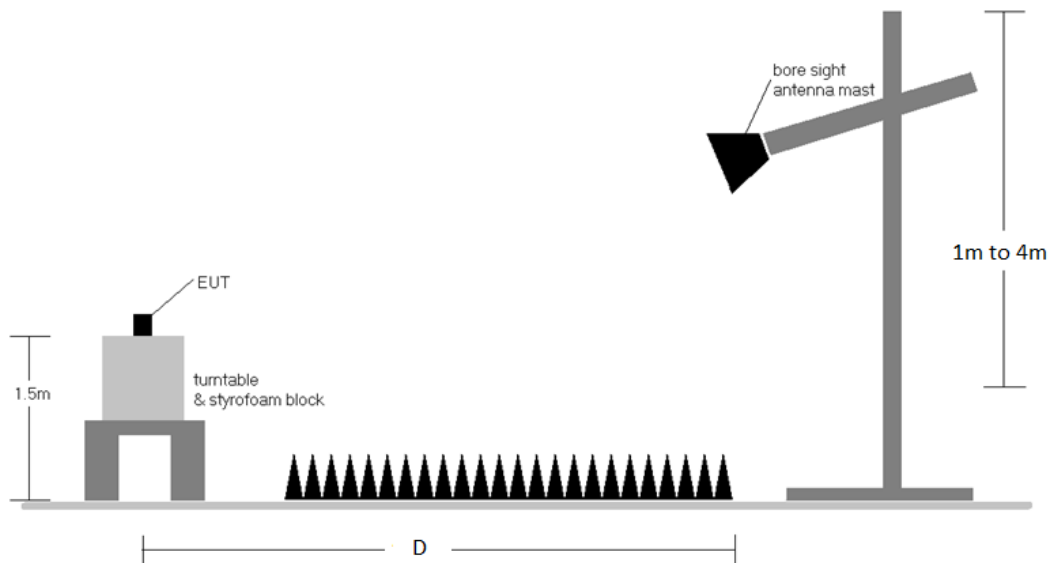




Figure 7-7. Test Instrument & Measurement Setup >1 GHz

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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. 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.
8. 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.

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7.7.1 Antenna 3a Radiated Spurious Emission Measurements

NR Band n77 DoD-Band

Bandwidth (MHz):	90								
Frequency (MHz):	3495.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
6990.0	-	-	-	-74.90	12.40	44.50	-50.76	-13.00	-37.76
10485.0	V	220	157	-69.78	16.67	53.89	-41.36	-13.00	-28.36
13980.0	-	-	-	-75.55	18.37	49.82	-45.44	-13.00	-32.44
17475.0	-	-	-	-75.12	23.44	55.32	-39.94	-13.00	-26.94


Table 7-18. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3500.00								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.0	-	-	-	-74.28	12.57	45.29	-49.97	-13.00	-36.97
10500.0	-	-	-	-74.72	16.59	48.87	-46.39	-13.00	-33.39
14000.0	-	-	-	-75.89	18.56	49.67	-45.58	-13.00	-32.58

Table 7-19. Radiated Spurious Data (NR Band n77 – Mid Channel)

Bandwidth (MHz):	90								
Frequency (MHz):	3505.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7010.00	-	-	-	-74.44	12.60	45.16	-50.10	-13.00	-37.10
10515.00	V	257	163	-73.62	16.60	49.98	-45.27	-13.00	-32.27
14020.00	-	-	-	-75.32	18.62	50.30	-44.96	-13.00	-31.96
17525.00	-	-	-	-74.65	24.12	56.47	-38.79	-13.00	-25.79

Table 7-20. Radiated Spurious Data (NR Band n77 – High Channel)

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NR Band n77 C-Band

Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.0	V	-	-	-81.24	10.57	36.33	-58.93	-13.00	-45.93
11250.0	V	349	142	-78.55	15.67	44.12	-51.14	-13.00	-38.14
15000.0	V	-	-	-85.47	20.47	42.00	-53.25	-13.00	-40.25


Table 7-21. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.0	V	-	-	-81.64	10.60	35.96	-59.30	-13.00	-46.30
11520.0	V	394	8	-72.83	16.65	50.82	-44.44	-13.00	-31.44
15360.0	V	-	-	-86.29	21.96	42.67	-52.59	-13.00	-39.59

Table 7-22. Radiated Spurious Data (NR Band n77 – Mid Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.0	V	-	-	-81.57	11.60	37.03	-58.23	-13.00	-45.23
11790.0	V	-	-	-84.58	17.08	39.50	-55.76	-13.00	-42.76
15720.0	V	-	-	-86.41	22.74	43.33	-51.93	-13.00	-38.93

Table 7-23. Radiated Spurious Data (NR Band n77 – High Channel)

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7.7.2 Antenna 2 Radiated Spurious Emission Measurements

NR Band n77 DoD-Band

Bandwidth (MHz):	90								
Frequency (MHz):	3495.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
6990.0	-	-	-	-73.88	12.40	45.52	-49.74	-13.00	-36.74
10485.0	-	-	-	-74.82	16.67	48.85	-46.40	-13.00	-33.40
13980.0	-	-	-	-75.42	18.37	49.95	-45.31	-13.00	-32.31
17475.0	-	-	-	-75.66	23.44	54.78	-40.48	-13.00	-27.48


Table 7-24. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3500.00								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.00	-	-	-	-73.68	12.57	45.89	-49.37	-13.00	-36.37
10500.00	-	-	-	-74.79	16.59	48.80	-46.46	-13.00	-33.46
14000.00	-	-	-	-75.58	18.56	49.98	-45.27	-13.00	-32.27
17500.00	-	-	-	-76.39	24.04	54.65	-40.60	-13.00	-27.60

Table 7-25. Radiated Spurious Data (NR Band n77 – Mid Channel)

Bandwidth (MHz):	90								
Frequency (MHz):	3505.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7010.0	-	-	-	-73.89	12.60	45.71	-49.55	-13.00	-36.55
10515.0	-	-	-	-75.34	16.60	48.26	-46.99	-13.00	-33.99
14020.0	-	-	-	-74.94	18.62	50.68	-44.57	-13.00	-31.57
17525.0	-	-	-	-76.20	24.12	54.92	-40.34	-13.00	-27.34

Table 7-26. Radiated Spurious Data (NR Band n77 – High Channel)

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NR Band n77 C-Band

Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.0	V	-	-	-81.16	10.57	36.41	-58.85	-13.00	-45.85
11250.0	V	-	-	-84.14	15.67	38.53	-56.73	-13.00	-43.73
15000.0	V	-	-	-85.25	20.47	42.22	-53.03	-13.00	-40.03


Table 7-27. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.0	V	-	-	-81.10	10.60	36.50	-58.76	-13.00	-45.76
11520.0	V	-	-	-84.28	16.65	39.37	-55.89	-13.00	-42.89
15360.0	V	-	-	-85.97	21.96	42.99	-52.27	-13.00	-39.27

Table 7-28. Radiated Spurious Data (NR Band n77 – Mid Channel)

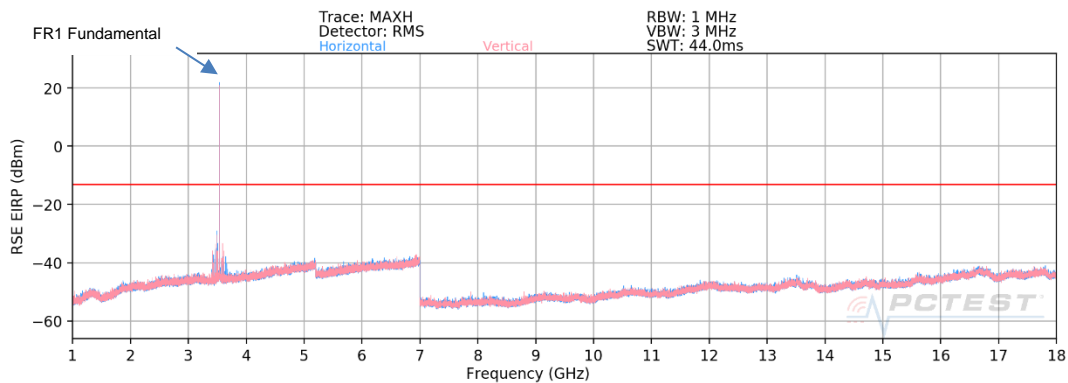
Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.0	V	-	-	-81.62	11.60	36.98	-58.28	-13.00	-45.28
11790.0	V	-	-	-84.65	17.08	39.43	-55.83	-13.00	-42.83
15720.0	V	-	-	-86.45	22.74	43.29	-51.97	-13.00	-38.97

Table 7-29. Radiated Spurious Data (NR Band n77 – High Channel)

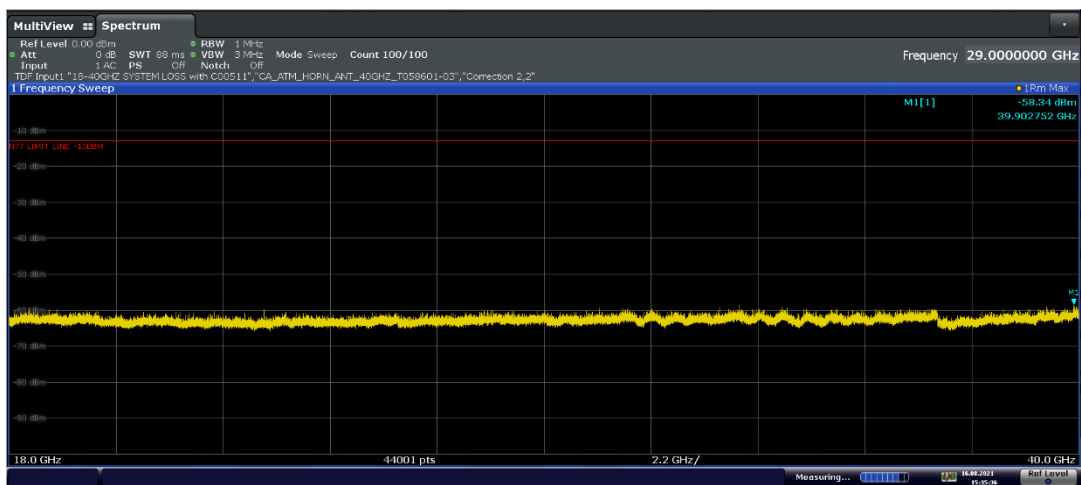
FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1C2106080049-05-R1.BCG	Test Dates: 6/2/2021 - 8/15/2021	EUT Type: Tablet Device	Page 161 of 171

7.7.3 Antenna 4 Radiated Spurious Emission Measurements

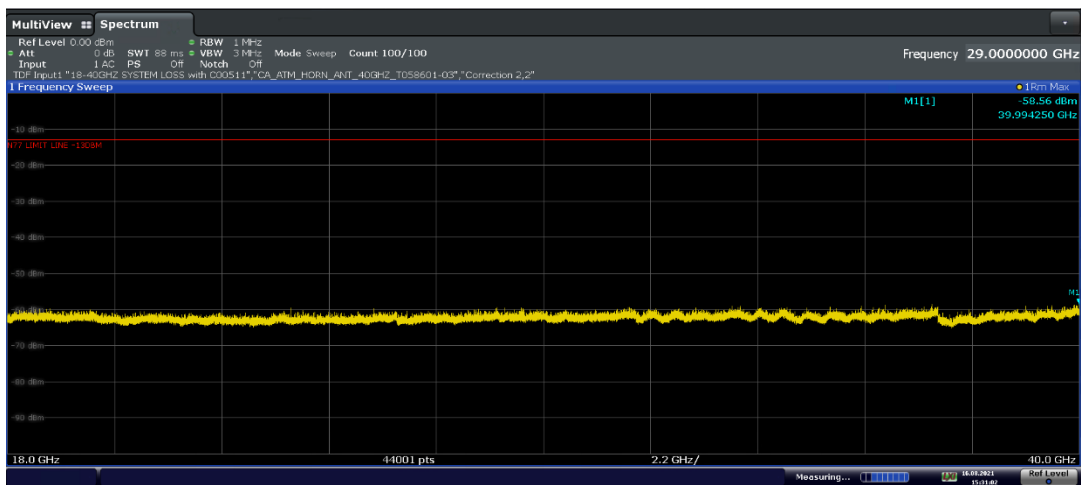
NR Band n77 DoD-Band



Plot 7-229. Antenna 3a Radiated Spurious Plot 1GHz – 18GHz (NR Band n77)



Plot 7-230. Antenna 3a Radiated Spurious Emission above 18GHz (NR Band n77, Pol. H)



Plot 7-231. Antenna 3a Radiated Spurious Emission above 18GHz (NR Band n77, Pol. V)

FCC ID: BCGA2568	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Bandwidth (MHz):	90								
Frequency (MHz):	3495.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
6990.00	-	-	-	-73.29	12.40	46.11	-49.15	-13.00	-36.15
10485.00	-	-	-	-75.12	16.67	48.55	-46.70	-13.00	-33.70
13980.00	-	-	-	-75.95	18.36	49.41	-45.84	-13.00	-32.84
17475.00	-	-	-	-76.21	23.44	54.23	-41.03	-13.00	-28.03


Table 7-30. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3500.00								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.0	-	-	-	-73.63	12.57	45.94	-49.31	-13.00	-36.31
10500.0	-	-	-	-74.86	16.59	48.73	-46.53	-13.00	-33.53
14000.0	-	-	-	-75.85	18.57	49.72	-45.54	-13.00	-32.54
17500.0	-	-	-	-75.92	24.05	55.13	-40.13	-13.00	-27.13

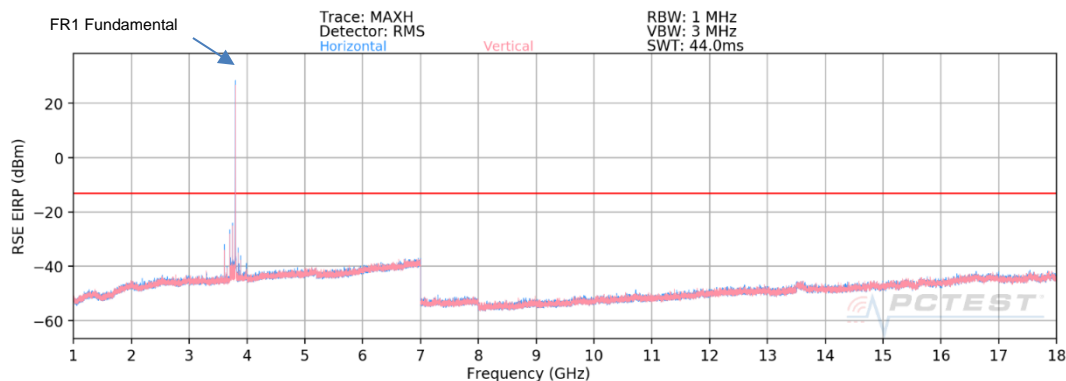
Table 7-31. Radiated Spurious Data (NR Band n77 – Mid Channel)

Bandwidth (MHz):	90								
Frequency (MHz):	3505.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7010.0	-	-	-	-74.21	12.60	45.39	-49.87	-13.00	-36.87
10515.0	-	-	-	-75.51	16.60	48.09	-47.16	-13.00	-34.16
14020.0	-	-	-	-75.32	18.62	50.30	-44.96	-13.00	-31.96
17525.0	-	-	-	-75.28	24.12	55.84	-39.42	-13.00	-26.42

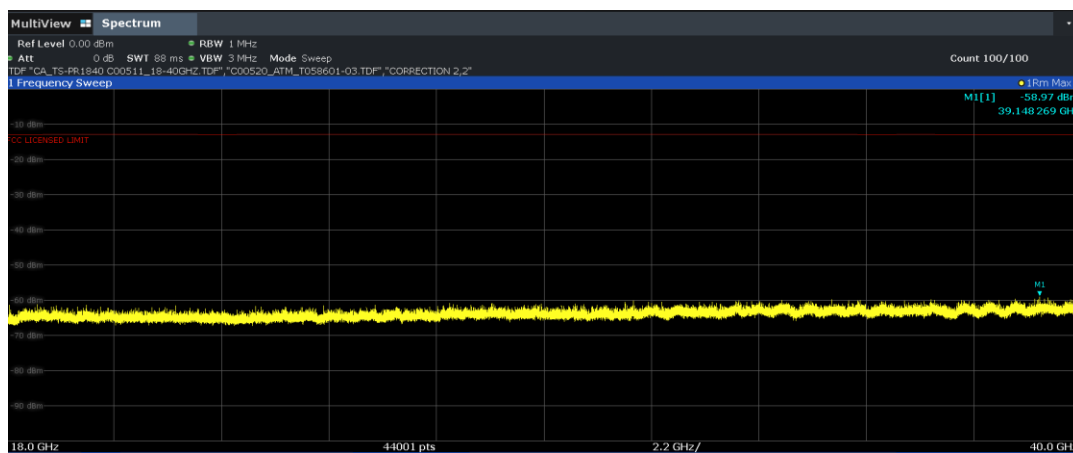
Table 7-32. Radiated Spurious Data (NR Band n77 – High Channel)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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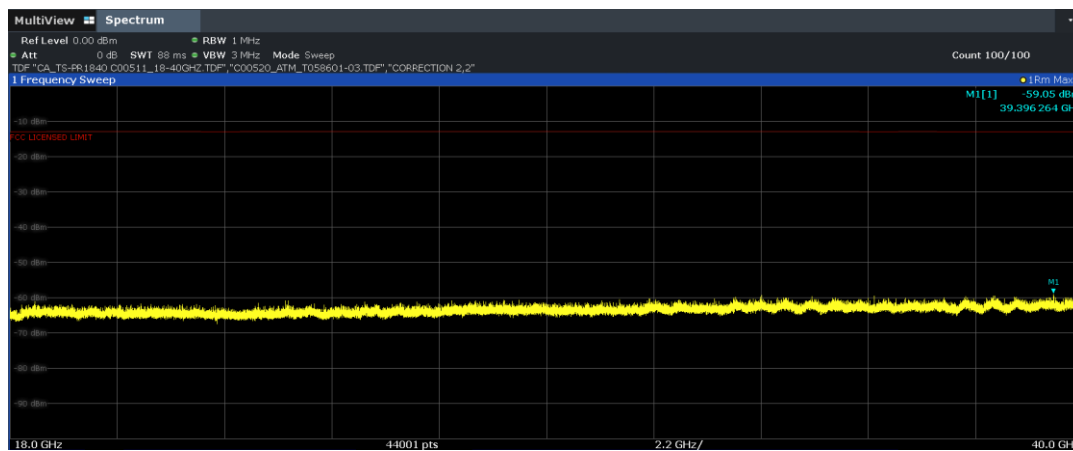
NR Band n77 C-Band



Plot 7-232. Antenna 3a Radiated Spurious Plot 1GHz – 18GHz (NR Band n77)



Plot 7-233. Antenna 3a Radiated Spurious Emission above 18GHz (NR Band n77, Pol. H)



Plot 7-234. Antenna 3a Radiated Spurious Emission above 18GHz (NR Band n77, Pol. V)

FCC ID: BCGA2568	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.0	H	-	-	-81.20	10.57	36.37	-58.89	-13.00	-45.89
11250.0	H	-	-	-84.30	15.67	38.37	-56.89	-13.00	-43.89
15000.0	H	-	-	-85.27	20.47	42.20	-53.05	-13.00	-40.05


Table 7-33. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.0	H	-	-	-81.11	10.60	36.49	-58.77	-13.00	-45.77
11520.0	H	-	-	-84.25	16.65	39.40	-55.86	-13.00	-42.86
15360.0	H	-	-	-85.86	21.96	43.10	-52.16	-13.00	-39.16

Table 7-34. Radiated Spurious Data (NR Band n77 – Mid Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.0	H	-	-	-81.07	11.60	37.53	-57.73	-13.00	-44.73
11790.0	H	-	-	-84.22	17.08	39.86	-55.40	-13.00	-42.40
15720.0	H	-	-	-85.69	22.74	44.05	-51.21	-13.00	-38.21

Table 7-35. Radiated Spurious Data (NR Band n77 – High Channel)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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7.7.4 Antenna 1a Radiated Spurious Emission Measurements

NR Band n77 DoD-Band

Bandwidth (MHz):	90								
Frequency (MHz):	3495.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
6990.0	H	-	-	-74.95	12.40	44.45	-50.81	-13.00	-37.81
10485.0	H	-	-	-75.67	16.67	48.00	-47.25	-13.00	-34.25
13980.0	H	-	-	-76.58	18.37	48.79	-46.47	-13.00	-33.47


Table 7-36. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3500.00								
RB / Offset:	1 / 268								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.0	H	-	-	-73.54	12.57	46.03	-49.23	-13.00	-36.23
10500.0	H	-	-	-75.83	16.59	47.76	-47.50	-13.00	-34.50
14000.0	H	-	-	-74.99	18.56	50.57	-44.68	-13.00	-31.68

Table 7-37. Radiated Spurious Data (NR Band n77 – Mid Channel)

Bandwidth (MHz):	90								
Frequency (MHz):	3505.00								
RB / Offset:	1 / 244								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7010.0	H	-	-	-76.21	12.51	43.30	-51.96	-13.00	-38.96
10515.0	H	-	-	-76.61	16.73	47.12	-48.14	-13.00	-35.14
14020.0	H	-	-	-76.81	18.24	48.43	-46.83	-13.00	-33.83

Table 7-38. Radiated Spurious Data (NR Band n77 – High Channel)

FCC ID: BCGA2568	 PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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NR Band n77 C-Band

Bandwidth (MHz):	100								
Frequency (MHz):	3750.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.0	H	-	-	-80.50	10.57	37.07	-58.19	-13.00	-45.19
11250.0	H	-	-	-83.88	15.67	38.79	-56.47	-13.00	-43.47
15000.0	H	-	-	-84.77	20.47	42.70	-52.55	-13.00	-39.55


Table 7-39. Radiated Spurious Data (NR Band n77 – Low Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3840.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.0	H	151	8	-80.51	10.60	37.09	-58.17	-13.00	-45.17
11520.0	H	-	-	-84.11	16.65	39.54	-55.72	-13.00	-42.72
15360.0	H	-	-	-85.22	21.96	43.74	-51.52	-13.00	-38.52

Table 7-40. Radiated Spurious Data (NR Band n77 – Mid Channel)

Bandwidth (MHz):	100								
Frequency (MHz):	3930.0								
RB / Offset:	1 / 135								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.0	H	-	-	-81.22	11.60	37.38	-57.88	-13.00	-44.88
11790.0	H	-	-	-84.18	17.08	39.90	-55.36	-13.00	-42.36
15720.0	H	-	-	-85.66	22.74	44.08	-51.18	-13.00	-38.18

Table 7-41. Radiated Spurious Data (NR Band n77 – 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

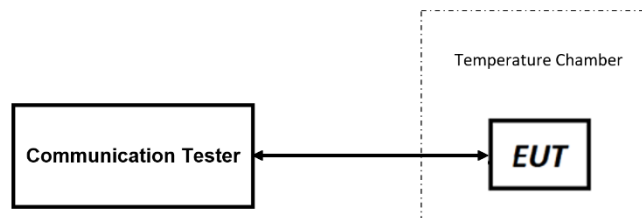



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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Frequency Stability / Temperature Variation

NR Band n77 (3450-3550MHZ)

Low Channel Frequency (Hz):	3,495,000,000
High Channel Frequency (Hz):	3,505,000,000
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	3,495,086,000	3,506,349,000	-403,000	782,000	0.0223074
		- 20	3,495,099,500	3,506,383,500	-389,500	816,500	0.0232915
		- 10	3,496,219,000	3,506,395,000	730,000	828,000	0.0236196
		0	3,494,843,500	3,504,887,000	-645,500	-680,000	-0.0193977
		+ 10	3,496,012,500	3,506,181,000	523,500	614,000	0.0175150
		+ 20 (Ref)	3,495,489,000	3,505,567,000	0	0	0.0000000
		+ 30	3,495,869,500	3,506,135,000	380,500	568,000	0.0162028
		+ 40	3,495,961,000	3,506,136,000	472,000	569,000	0.0162313
		+ 50	3,496,167,500	3,505,907,000	678,500	340,000	0.0194107
Battery Endpoint	3.23	+ 20	3,495,939,000	3,506,141,000	450,000	574,000	0.0163740

Table 7-42. NR Band n77 Frequency Stability Data

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Frequency Stability / Temperature Variation

NR Band n77 (3700-3980MHz)

Low Channel Frequency (Hz):	3,750,000,000
High Channel Frequency (Hz):	3,930,000,000
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	3,760,891,500	3,941,964,000	5,058,000	6,147,500	0.1561938
		- 20	3,760,888,500	3,941,909,000	5,055,000	6,092,500	0.1547963
		- 10	3,761,954,000	3,941,912,000	6,120,500	6,095,500	0.1629598
		0	3,761,710,500	3,941,673,000	5,877,000	5,856,500	0.1564766
		+ 10	3,761,748,500	3,941,709,000	5,915,000	5,892,500	0.1574883
		+ 20 (Ref)	3,755,833,500	3,935,816,500	0	0	0.0000000
		+ 30	3,761,587,500	3,941,606,000	5,754,000	5,789,500	0.1470978
		+ 40	3,761,579,500	3,941,525,000	5,746,000	5,708,500	0.1529887
		+ 50	3,761,262,000	3,941,192,000	5,428,500	5,375,500	0.1445352
Battery Endpoint	3.23	+ 20	3,761,358,000	3,941,046,500	5,524,500	5,230,000	0.1470912

Table 7-43. NR Band n77 Frequency Stability Data

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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: BCGA2568** complies with all the requirements of Part 27 of the FCC rules.

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