

7.6.3 Antenna 4b – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	3455.01	-1.50	1 / 17	27.50	26.00	0.398	33.01	-7.01
		3500.01	-1.50	1 / 6	27.23	25.73	0.374	33.01	-7.28
		3544.98	-1.50	1 / 6	27.42	25.92	0.391	33.01	-7.09
	QPSK	3455.01	-1.50	1 / 6	27.50	26.00	0.398	33.01	-7.01
		3500.01	-1.50	1 / 12	27.43	25.53	0.392	33.01	-7.08
		3544.98	-1.50	1 / 17	27.41	25.91	0.390	33.01	-7.10
	16-QAM	3454.98	-1.50	1 / 6	26.54	25.04	0.319	33.01	-7.97
		3455.01	-1.50	1 / 6	25.58	24.08	0.256	33.01	-8.93
		3500.01	-1.50	1 / 6	27.41	25.91	0.390	33.01	-7.10
15 MHz	π/2 BPSK	3457.50	-1.50	1 / 19	27.39	25.89	0.388	33.01	-7.12
		3500.01	-1.50	1 / 28	27.36	25.86	0.385	33.01	-7.15
		3542.49	-1.50	1 / 28	27.43	25.93	0.392	33.01	-7.08
	QPSK	3457.50	-1.50	1 / 28	27.50	26.00	0.398	33.01	-7.01
		3500.01	-1.50	1 / 28	27.42	25.92	0.391	33.01	-7.09
		3542.49	-1.50	1 / 28	27.46	25.96	0.394	33.01	-7.05
	16-QAM	3457.50	-1.50	1 / 28	26.49	24.99	0.316	33.01	-8.02
		3500.01	-1.50	1 / 9	25.49	23.99	0.251	33.01	-9.02
		3500.01	-1.50	1 / 28	22.48	20.98	0.125	33.01	-12.04
20 MHz	π/2 BPSK	3460.02	-1.50	1 / 37	27.42	25.92	0.391	33.01	-7.09
		3500.01	-1.50	1 / 13	27.22	25.72	0.373	33.01	-7.29
		3540.00	-1.50	1 / 13	27.50	26.00	0.398	33.01	-7.01
	QPSK	3460.02	-1.50	1 / 37	27.47	25.97	0.395	33.01	-7.04
		3500.01	-1.50	1 / 37	27.31	25.81	0.381	33.01	-7.20
		3540.00	-1.50	1 / 37	27.15	25.65	0.367	33.01	-7.36
	16-QAM	3460.02	-1.50	1 / 13	26.50	25.00	0.316	33.01	-8.01
		3460.02	-1.50	1 / 13	25.43	23.93	0.247	33.01	-9.08
		3500.01	-1.50	1 / 13	22.20	20.70	0.117	33.01	-12.31
30 MHz	π/2 BPSK	3465.00	-1.50	1 / 19	27.24	25.74	0.375	33.01	-7.27
		3500.01	-1.50	1 / 39	27.45	25.95	0.394	33.01	-7.06
		3534.99	-1.50	1 / 19	27.31	25.81	0.381	33.01	-7.20
	QPSK	3465.00	-1.50	1 / 39	27.42	25.92	0.391	33.01	-7.09
		3500.01	-1.50	1 / 39	27.18	25.68	0.370	33.01	-7.33
		3534.99	-1.50	1 / 39	27.50	26.00	0.398	33.01	-7.01
	16-QAM	3534.99	-1.50	1 / 19	26.45	24.95	0.313	33.01	-8.06
		3500.01	-1.50	1 / 58	25.50	24.00	0.251	33.01	-9.01
		3534.99	-1.50	1 / 39	22.47	20.97	0.125	33.01	-12.04
40 MHz	π/2 BPSK	3470.01	-1.50	1 / 63	27.50	26.00	0.398	33.01	-7.01
		3500.01	-1.50	1 / 26	27.44	25.94	0.393	33.01	-7.07
		3529.98	-1.50	1 / 79	27.50	26.00	0.398	33.01	-7.01
	QPSK	3470.01	-1.50	1 / 79	27.37	25.87	0.386	33.01	-7.14
		3500.01	-1.50	1 / 79	27.26	25.76	0.377	33.01	-7.25
		3529.98	-1.50	1 / 53	27.31	25.81	0.381	33.01	-7.20
	16-QAM	3500.01	-1.50	1 / 53	26.49	24.99	0.316	33.01	-8.02
		3500.01	-1.50	1 / 26	25.51	24.01	0.252	33.01	-9.00
		3470.01	-1.50	1 / 26	22.51	21.01	0.126	33.01	-12.00
50 MHz	π/2 BPSK	3475.02	-1.50	1 / 99	27.39	25.89	0.388	33.01	-7.12
		3500.01	-1.50	1 / 33	27.48	25.98	0.396	33.01	-7.03
		3525.00	-1.50	1 / 33	27.46	25.96	0.394	33.01	-7.05
	QPSK	3475.02	-1.50	1 / 33	27.42	25.92	0.391	33.01	-7.09
		3500.01	-1.50	1 / 33	27.50	26.00	0.398	33.01	-7.01
		3525.00	-1.50	1 / 66	27.45	25.95	0.394	33.01	-7.06
	16-QAM	3475.02	-1.50	1 / 99	26.41	24.91	0.310	33.01	-8.10
		3525.00	-1.50	1 / 66	25.52	24.02	0.252	33.01	-8.99
		3525.00	-1.50	1 / 99	22.45	20.95	0.124	33.01	-12.06
60 MHz	π/2 BPSK	3480.00	-1.50	1 / 121	27.44	25.94	0.393	33.01	-7.07
		3500.01	-1.50	1 / 121	27.49	25.99	0.397	33.01	-7.02
		3519.99	-1.50	1 / 81	27.48	25.98	0.396	33.01	-7.03
	QPSK	3480.00	-1.50	1 / 40	27.50	26.00	0.398	33.01	-7.01
		3500.01	-1.50	1 / 40	27.32	25.82	0.382	33.01	-7.19
		3519.99	-1.50	1 / 121	27.43	25.93	0.392	33.01	-7.08
	16-QAM	3519.99	-1.50	1 / 40	26.50	25.00	0.316	33.01	-8.01
		3500.01	-1.50	1 / 66	25.52	24.02	0.255	33.01	-8.99
		3500.01	-1.50	1 / 81	25.47	23.97	0.249	33.01	-9.04
70 MHz	π/2 BPSK	3485.01	-1.50	1 / 141	27.43	25.93	0.392	33.01	-7.08
		3500.01	-1.50	1 / 47	27.37	25.87	0.386	33.01	-7.14
		3514.98	-1.50	1 / 47	27.31	25.81	0.381	33.01	-7.20
	QPSK	3485.01	-1.50	1 / 141	27.13	25.63	0.366	33.01	-7.38
		3500.01	-1.50	1 / 47	27.48	25.98	0.396	33.01	-7.03
		3514.98	-1.50	1 / 47	27.50	26.00	0.398	33.01	-7.01
	16-QAM	3500.01	-1.50	1 / 141	26.47	24.97	0.314	33.01	-8.04
		3514.98	-1.50	1 / 94	25.56	24.06	0.255	33.01	-8.95
		3500.01	-1.50	1 / 47	22.55	21.05	0.127	33.01	-11.96
80 MHz	π/2 BPSK	3490.02	-1.50	1 / 108	27.44	25.94	0.393	33.01	-7.07
		3500.01	-1.50	1 / 54	27.49	25.99	0.397	33.01	-7.02
		3510.00	-1.50	1 / 162	27.13	25.63	0.366	33.01	-7.38
	QPSK	3490.02	-1.50	1 / 108	27.39	25.89	0.388	33.01	-7.12
		3500.01	-1.50	1 / 108	27.50	26.00	0.398	33.01	-7.01
		3510.00	-1.50	1 / 108	27.45	25.95	0.394	33.01	-7.06
	16-QAM	3490.02	-1.50	1 / 162	26.36	24.86	0.306	33.01	-8.15
		3490.02	-1.50	1 / 162	25.44	23.94	0.248	33.01	-9.07
		3510.00	-1.50	1 / 108	22.40	20.90	0.123	33.01	-12.11
90 MHz	π/2 BPSK	3495.00	-1.50	1 / 122	27.29	25.79	0.379	33.01	-7.22
		3500.01	-1.50	1 / 183	27.30	25.80	0.380	33.01	-7.21
		3504.99	-1.50	1 / 183	27.50	26.00	0.398	33.01	-7.01
	QPSK	3495.00	-1.50	1 / 122	27.43	25.93	0.392	33.01	-7.08
		3500.01	-1.50	1 / 122	27.31	25.81	0.381	33.01	-7.20
		3504.99	-1.50	1 / 183	27.47	25.97	0.395	33.01	-7.04
	16-QAM	3495.00	-1.50	1 / 61	26.46	24.96	0.313	33.01	-8.05
		3504.99	-1.50	1 / 183	25.45	23.95	0.248	33.01	-9.06
		3504.99	-1.50	1 / 183	22.42	20.92	0.124	33.01	-12.09
100 MHz	π/2 BPSK	3500.01	-1.50	1 / 136	27.35	25.85	0.385	33.01	-7.16
		3500.01	-1.50	1 / 136	27.34	25.84	0.384	33.01	-7.17
		3500.01	-1.50	1 / 68	27.46	25.96	0.394	33.01	-7.05
	QPSK	3500.01	-1.50	1 / 136	27.44	25.99	0.397	33.01	-7.02
		3500.01	-1.50	1 / 136	27.21	25.71	0.372	33.01	-7.30
		3500.01	-1.50	1 / 68	26.45	24.95	0.313	33.01	-8.06
	16-QAM	3500.01	-1.50	1 / 136	25.48	23.98	0.250	33.01	-9.03
		3500.01	-1.50	1 / 136	22.47	20.97	0.125	33.01	-12.04

Table 7-10. Antenna 4b EIRP Data (NR Band n77 (PC2) – DoD Band)

FCC ID: BCGA2435	Test Report S/N: 1C2205090025-05.BCG	Test Dates: 6/7/2022 - 9/1/2022	EUT Type: Tablet Device	Approved by: Technical Manager
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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]
10 MHz	π/2 BPSK	3455.01	-1.50	1 / 12	25.38	23.88	0.244	33.01	-9.13
		3500.01	-1.50	1 / 6	25.38	23.88	0.244	33.01	-9.13
		3544.98	-1.50	1 / 17	25.69	24.19	0.262	33.01	-8.82
	QPSK	3455.01	-1.50	1 / 12	25.63	24.13	0.259	33.01	-8.88
		3500.01	-1.50	1 / 17	25.50	24.00	0.251	33.01	-9.01
		3544.98	-1.50	1 / 12	25.70	24.20	0.263	33.01	-8.81
	16-QAM	3500.01	-1.50	1 / 12	24.66	23.16	0.207	33.01	-9.85
		3455.01	-1.50	1 / 6	23.62	22.12	0.163	33.01	-10.89
		3544.98	-1.50	1 / 17	20.61	19.11	0.081	33.01	-13.90
	256-QAM	3457.50	-1.50	1 / 28	25.70	24.20	0.263	33.01	-8.81
		3500.01	-1.50	1 / 9	25.59	24.09	0.256	33.01	-8.92
		3542.49	-1.50	1 / 9	25.63	24.13	0.259	33.01	-8.88
15 MHz	π/2 BPSK	3457.50	-1.50	1 / 28	25.49	23.99	0.251	33.01	-9.02
		3500.01	-1.50	1 / 28	25.63	24.13	0.259	33.01	-8.88
		3542.49	-1.50	1 / 19	25.65	24.15	0.260	33.01	-8.86
	QPSK	3457.50	-1.50	1 / 9	24.68	23.18	0.206	33.01	-9.83
		3500.01	-1.50	1 / 19	23.69	22.19	0.166	33.01	-10.82
		3542.49	-1.50	1 / 19	20.70	19.20	0.083	33.01	-13.81
	256-QAM	3460.02	-1.50	1 / 13	25.64	24.14	0.259	33.01	-8.87
		3500.01	-1.50	1 / 25	25.48	23.98	0.250	33.01	-9.03
		3540.00	-1.50	1 / 25	25.70	24.20	0.263	33.01	-8.81
	QPSK	3460.02	-1.50	1 / 37	25.59	24.09	0.256	33.01	-8.92
		3500.01	-1.50	1 / 25	25.54	24.04	0.254	33.01	-8.97
		3540.00	-1.50	1 / 13	25.53	24.03	0.253	33.01	-8.98
20 MHz	16-QAM	3460.02	-1.50	1 / 13	24.65	23.15	0.207	33.01	-9.86
		3500.01	-1.50	1 / 37	23.60	22.10	0.162	33.01	-10.91
		3540.00	-1.50	1 / 25	20.67	19.17	0.083	33.01	-13.84
	π/2 BPSK	3465.00	-1.50	1 / 19	25.68	24.18	0.262	33.01	-8.83
		3500.01	-1.50	1 / 39	25.70	24.20	0.263	33.01	-8.81
		3534.99	-1.50	1 / 39	25.69	24.19	0.262	33.01	-8.82
	QPSK	3465.00	-1.50	1 / 58	25.46	23.96	0.249	33.01	-9.05
		3500.01	-1.50	1 / 39	25.68	24.18	0.262	33.01	-8.83
		3534.99	-1.50	1 / 39	25.69	24.19	0.262	33.01	-8.82
	64-QAM	3500.01	-1.50	1 / 39	24.65	23.15	0.207	33.01	-9.86
		3460.02	-1.50	1 / 13	23.65	22.15	0.164	33.01	-10.86
		3540.00	-1.50	1 / 25	20.67	19.04	0.080	33.01	-13.97
30 MHz	π/2 BPSK	3470.01	-1.50	1 / 53	25.65	24.15	0.260	33.01	-8.86
		3500.01	-1.50	1 / 53	25.61	24.11	0.258	33.01	-8.90
		3529.98	-1.50	1 / 26	25.70	24.20	0.263	33.01	-8.81
	QPSK	3470.01	-1.50	1 / 53	25.49	23.99	0.251	33.01	-9.02
		3500.01	-1.50	1 / 53	25.61	24.11	0.258	33.01	-8.90
		3529.98	-1.50	1 / 26	25.49	23.99	0.251	33.01	-9.02
	256-QAM	3529.98	-1.50	1 / 79	24.73	23.23	0.210	33.01	-9.78
		3500.01	-1.50	1 / 53	23.66	22.16	0.164	33.01	-10.85
		3465.00	-1.50	1 / 58	20.54	19.24	0.084	33.01	-13.77
40 MHz	π/2 BPSK	3475.02	-1.50	1 / 99	25.43	23.93	0.247	33.01	-9.08
		3500.01	-1.50	1 / 66	25.45	23.95	0.248	33.01	-9.06
		3525.00	-1.50	1 / 66	25.39	23.89	0.245	33.01	-9.12
	QPSK	3475.02	-1.50	1 / 66	25.67	24.17	0.261	33.01	-8.84
		3500.01	-1.50	1 / 66	25.62	24.12	0.258	33.01	-8.89
		3525.00	-1.50	1 / 33	25.70	24.20	0.263	33.01	-8.81
	16-QAM	3500.01	-1.50	1 / 33	24.75	23.25	0.211	33.01	-9.76
		3480.00	-1.50	1 / 66	23.74	22.24	0.167	33.01	-10.77
		3526.00	-1.50	1 / 79	20.61	19.11	0.081	33.01	-13.77
50 MHz	π/2 BPSK	3480.00	-1.50	1 / 121	25.62	24.12	0.258	33.01	-8.89
		3500.01	-1.50	1 / 81	25.66	24.16	0.261	33.01	-8.85
		3519.99	-1.50	1 / 40	25.50	24.00	0.251	33.01	-9.01
	QPSK	3480.00	-1.50	1 / 40	25.70	24.20	0.263	33.01	-8.81
		3500.01	-1.50	1 / 40	25.63	24.13	0.259	33.01	-8.88
		3519.99	-1.50	1 / 40	25.60	24.10	0.257	33.01	-8.91
	64-QAM	3519.99	-1.50	1 / 121	24.77	23.27	0.212	33.01	-9.74
		3480.00	-1.50	1 / 40	23.66	22.16	0.164	33.01	-10.85
		3526.00	-1.50	1 / 99	20.78	19.28	0.085	33.01	-13.73
60 MHz	π/2 BPSK	3480.00	-1.50	1 / 81	25.66	24.16	0.261	33.01	-8.85
		3500.01	-1.50	1 / 40	25.50	24.00	0.251	33.01	-9.01
		3519.99	-1.50	1 / 40	25.60	24.10	0.257	33.01	-8.91
	QPSK	3480.00	-1.50	1 / 40	25.70	24.20	0.263	33.01	-8.81
		3500.01	-1.50	1 / 40	25.63	24.13	0.259	33.01	-8.88
		3519.99	-1.50	1 / 40	25.60	24.10	0.257	33.01	-8.91
	16-QAM	3519.99	-1.50	1 / 121	24.77	23.27	0.212	33.01	-9.74
		3485.01	-1.50	1 / 40	23.74	22.24	0.167	33.01	-10.77
		3526.00	-1.50	1 / 40	20.78	19.20	0.083	33.01	-13.81
70 MHz	π/2 BPSK	3485.01	-1.50	1 / 94	25.70	24.20	0.263	33.01	-8.81
		3500.01	-1.50	1 / 47	25.68	24.18	0.262	33.01	-8.83
		3519.98	-1.50	1 / 47	25.69	24.19	0.262	33.01	-8.82
	QPSK	3485.01	-1.50	1 / 47	25.47	23.97	0.249	33.01	-9.04
		3500.01	-1.50	1 / 47	25.62	24.12	0.258	33.01	-8.89
		3514.98	-1.50	1 / 94	25.45	23.95	0.248	33.01	-9.06
	64-QAM	3485.01	-1.50	1 / 94	24.72	23.22	0.210	33.01	-9.79
		3500.01	-1.50	1 / 47	23.74	22.24	0.167	33.01	-10.77
		3514.98	-1.50	1 / 141	20.70	19.20	0.083	33.01	-13.81
80 MHz	π/2 BPSK	3490.02	-1.50	1 / 162	25.64	24.14	0.259	33.01	-8.87
		3500.01	-1.50	1 / 162	25.49	23.99	0.251	33.01	-9.02
		3510.00	-1.50	1 / 54	25.32	23.82	0.241	33.01	-9.19
	QPSK	3490.02	-1.50	1 / 54	25.47	23.97	0.249	33.01	-9.04
		3500.01	-1.50	1 / 162	25.70	24.20	0.263	33.01	-8.81
		3510.00	-1.50	1 / 162	25.67	24.17	0.261	33.01	-8.84
	16-QAM	3510.00	-1.50	1 / 162	24.67	23.17	0.207	33.01	-9.84
		3500.01	-1.50	1 / 54	23.71	22.21	0.166	33.01	-10.80
		3510.00	-1.50	1 / 162	20.63	19.13	0.082	33.01	-13.88
90 MHz	π/2 BPSK	3495.00	-1.50	1 / 122	25.69	24.19	0.262	33.01	-8.82
		3500.01	-1.50	1 / 122	25.61	24.11	0.258	33.01	-8.90
		3504.99	-1.50	1 / 61	25.69	24.19	0.262	33.01	-8.82
	QPSK	3495.00	-1.50	1 / 61	25.70	24.20	0.263	33.01	-8.81
		3500.01	-1.50	1 / 122	25.59	24.09	0.256	33.01	-8.92
		3504.99	-1.50	1 / 183	25.64	24.14	0.259	33.01	-8.87
	64-QAM	3504.99	-1.50	1 / 183	24.70	23.20	0.209	33.01	-9.81
		3504.99	-1.50	1 / 183	23.68	22.18	0.165	33.01	-10.83
		3500.01	-1.50	1 / 183	20.69	19.19	0.083	33.01	-13.82
100 MHz	π/2 BPSK	3500.01	-1.50	1 / 204	25.61	24.11	0.258	33.01	-8.90
		3500.01	-1.50	1 / 136	25.55	24.05	0.254	33.01	-8.96
		3500.01	-1.50	1 / 204	25.70	24.20	0.263	33.01	-8.81
	QPSK	3500.01	-1.50	1 / 204	25.46	23.96	0.249	33.01	-9.05

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBil]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	1/2 BPSK	3705.00	-1.50	1 / 25	27.40	25.90	0.389	33.01	-7.11
		3840.00	-1.50	1 / 13	27.50	26.00	0.398	33.01	-7.01
		3975.00	-1.50	1 / 25	27.50	26.00	0.398	33.01	-7.01
	QPSK	3705.00	-1.50	1 / 13	27.20	25.70	0.372	33.01	-7.31
		3840.00	-1.50	1 / 13	27.42	25.92	0.391	33.01	-7.09
		3975.00	-1.50	1 / 25	27.30	25.80	0.380	33.01	-7.21
	16-QAM	3975.00	-1.50	1 / 25	26.47	24.97	0.314	33.01	-8.04
		3840.00	-1.50	1 / 13	25.48	23.98	0.250	33.01	-9.03
		3975.00	-1.50	1 / 25	22.43	20.93	0.124	33.01	-12.08
	256-QAM	3707.51	-1.50	1 / 37	27.50	26.00	0.398	33.01	-7.01
		3840.00	-1.50	1 / 25	27.48	25.98	0.396	33.01	-7.03
		3972.50	-1.50	1 / 25	27.34	25.84	0.384	33.01	-7.17
15 MHz	1/2 BPSK	3707.51	-1.50	1 / 13	27.28	25.78	0.378	33.01	-7.23
		3840.00	-1.50	1 / 13	27.35	25.85	0.385	33.01	-7.16
		3972.50	-1.50	1 / 25	27.42	25.92	0.391	33.01	-7.09
	QPSK	3840.00	-1.50	1 / 13	26.41	24.91	0.310	33.01	-8.10
		3972.50	-1.50	1 / 37	25.44	23.94	0.248	33.01	-9.07
		3840.00	-1.50	1 / 13	22.46	20.96	0.125	33.01	-12.05
	16-QAM	3710.01	-1.50	1 / 37	27.32	25.82	0.382	33.01	-7.19
		3840.00	-1.50	1 / 37	27.30	25.80	0.380	33.01	-7.21
		3969.99	-1.50	1 / 25	27.50	26.00	0.398	33.01	-7.01
	64-QAM	3710.01	-1.50	1 / 37	27.31	25.81	0.381	33.01	-7.20
		3840.00	-1.50	1 / 25	27.30	25.80	0.380	33.01	-7.21
		3969.99	-1.50	1 / 37	27.50	26.00	0.398	33.01	-7.01
20 MHz	1/2 BPSK	3840.00	-1.50	1 / 37	26.48	25.00	0.315	33.01	-8.03
		3969.99	-1.50	1 / 37	22.49	20.99	0.126	33.01	-12.02
		3710.01	-1.50	1 / 37	27.32	25.81	0.381	33.01	-7.20
	QPSK	3840.00	-1.50	1 / 25	27.30	25.80	0.380	33.01	-7.04
		3969.99	-1.50	1 / 37	27.50	26.00	0.398	33.01	-7.01
		3840.00	-1.50	1 / 13	26.48	24.98	0.315	33.01	-8.03
	16-QAM	3840.00	-1.50	1 / 13	25.48	23.98	0.250	33.01	-9.03
		3969.99	-1.50	1 / 13	22.43	20.93	0.124	33.01	-12.08
		3840.00	-1.50	1 / 37	22.49	20.99	0.126	33.01	-12.02
30 MHz	1/2 BPSK	3715.02	-1.50	1 / 19	27.17	25.67	0.369	33.01	-7.34
		3840.00	-1.50	1 / 39	27.50	26.00	0.398	33.01	-7.01
		3964.98	-1.50	1 / 19	27.46	25.96	0.394	33.01	-7.05
	QPSK	3715.02	-1.50	1 / 58	27.43	25.93	0.392	33.01	-7.08
		3840.00	-1.50	1 / 39	27.47	25.97	0.395	33.01	-7.04
		3964.98	-1.50	1 / 58	27.48	25.98	0.396	33.01	-7.03
	16-QAM	3840.00	-1.50	1 / 19	26.43	24.93	0.311	33.01	-8.08
		3960.00	-1.50	1 / 13	25.48	23.98	0.250	33.01	-9.04
		3715.02	-1.50	1 / 39	25.47	23.97	0.249	33.01	-9.04
40 MHz	1/2 BPSK	3720.00	-1.50	1 / 58	27.55	25.85	0.385	33.01	-7.16
		3840.00	-1.50	1 / 53	27.49	25.99	0.397	33.01	-7.02
		3960.00	-1.50	1 / 26	27.39	25.89	0.388	33.01	-7.12
	QPSK	3720.00	-1.50	1 / 53	27.35	25.85	0.385	33.01	-7.16
		3840.00	-1.50	1 / 53	27.49	25.99	0.397	33.01	-7.02
		3960.00	-1.50	1 / 26	27.39	25.89	0.388	33.01	-7.12
	16-QAM	3840.00	-1.50	1 / 26	26.50	25.00	0.316	33.01	-8.01
		3960.00	-1.50	1 / 26	25.55	24.05	0.254	33.01	-8.96
		3720.00	-1.50	1 / 53	22.56	21.06	0.128	33.01	-11.95
50 MHz	1/2 BPSK	3725.01	-1.50	1 / 33	27.47	25.97	0.395	33.01	-7.04
		3840.00	-1.50	1 / 66	27.35	25.85	0.385	33.01	-7.16
		3954.99	-1.50	1 / 99	27.48	25.98	0.396	33.01	-7.03
	QPSK	3725.01	-1.50	1 / 33	27.50	26.00	0.398	33.01	-7.01
		3840.00	-1.50	1 / 33	27.39	25.89	0.388	33.01	-7.12
		3954.99	-1.50	1 / 99	27.42	25.92	0.391	33.01	-7.09
	16-QAM	3840.00	-1.50	1 / 33	26.54	25.04	0.319	33.01	-7.97
		3960.00	-1.50	1 / 66	25.48	23.98	0.250	33.01	-9.03
		3725.01	-1.50	1 / 66	22.56	21.06	0.128	33.01	-11.95
60 MHz	1/2 BPSK	3730.02	-1.50	1 / 81	27.50	26.00	0.398	33.01	-7.01
		3840.00	-1.50	1 / 40	27.41	25.91	0.390	33.01	-7.10
		3949.98	-1.50	1 / 81	27.46	25.96	0.394	33.01	-7.05
	QPSK	3730.02	-1.50	1 / 121	27.49	25.99	0.397	33.01	-7.02
		3840.00	-1.50	1 / 40	27.41	25.91	0.390	33.01	-7.10
		3949.98	-1.50	1 / 40	27.24	25.74	0.375	33.01	-7.27
	16-QAM	3730.02	-1.50	1 / 40	26.56	25.06	0.321	33.01	-7.95
		3840.00	-1.50	1 / 121	25.45	23.95	0.248	33.01	-9.06
		3949.98	-1.50	1 / 81	22.49	20.99	0.126	33.01	-12.02
70 MHz	1/2 BPSK	3735.00	-1.50	1 / 94	27.32	25.82	0.382	33.01	-7.19
		3840.00	-1.50	1 / 141	27.50	26.00	0.398	33.01	-7.01
		3945.00	-1.50	1 / 141	27.49	25.99	0.397	33.01	-7.02
	QPSK	3735.00	-1.50	1 / 47	27.35	25.85	0.385	33.01	-7.16
		3840.00	-1.50	1 / 94	27.49	25.99	0.397	33.01	-7.02
		3945.00	-1.50	1 / 94	27.39	25.89	0.388	33.01	-7.12
	16-QAM	3735.00	-1.50	1 / 141	26.48	24.98	0.315	33.01	-8.03
		3840.00	-1.50	1 / 94	25.47	23.97	0.249	33.01	-9.04
		3945.00	-1.50	1 / 94	22.46	20.96	0.125	33.01	-12.05
80 MHz	1/2 BPSK	3740.01	-1.50	1 / 54	27.42	25.92	0.391	33.01	-7.09
		3840.00	-1.50	1 / 108	27.26	25.76	0.377	33.01	-7.25
		3939.99	-1.50	1 / 54	27.34	25.84	0.384	33.01	-7.17
	QPSK	3740.01	-1.50	1 / 162	27.30	25.80	0.380	33.01	-7.21
		3840.00	-1.50	1 / 162	27.50	26.00	0.398	33.01	-7.01
		3939.99	-1.50	1 / 54	27.49	25.99	0.397	33.01	-7.02
	16-QAM	3740.01	-1.50	1 / 54	26.49	24.99	0.316	33.01	-8.02
		3840.01	-1.50	1 / 54	25.49	23.99	0.251	33.01	-9.02
		3934.98	-1.50	1 / 54	22.51	21.01	0.126	33.01	-12.00
90 MHz	1/2 BPSK	3745.02	-1.50	1 / 122	27.46	25.96	0.394	33.01	-7.05
		3840.00	-1.50	1 / 61	27.46	25.96	0.394	33.01	-7.05
		3934.98	-1.50	1 / 183	27.41	25.91	0.390	33.01	-7.10
	QPSK	3745.02	-1.50	1 / 183	27.17	25.67	0.369	33.01	-7.34
		3840.00	-1.50	1 / 61	27.32	25.62	0.382	33.01	-7.19
		3934.98	-1.50	1 / 61	27.50	26.00	0.398	33.01	-7.01
	16-QAM	3934.98	-1.50	1 / 122	26.59	25.09	0.323	33.01	-7.92
		3934.98	-1.50	1 / 61	25.57	24.07	0.255	33.01	-8.94
		3840.00	-1.50	1 / 122	22.47	20.97	0.125	33.01	-12.04
100 MHz	1/2 BPSK	3750.00	-1.50	1 / 204	27.50	26.00	0.398	33.01	-7.01
		3840.00	-1.50	1 / 204	27.49	25.99	0.397	33.01	-7.02
		3930.00	-1.50	1 / 204	27.47	25.97	0.395	33.01	-7.04
	QPSK	3750.00	-1.50	1 / 136	27.48	25.98	0.396	33.01	-7.03
		3840.00	-1.50	1 / 136	27.41	25.91	0.390	33.01	-7.10
		3930.00	-1.50	1 / 204	27.48	25.98	0.396	33.01	-7.03
	16-QAM	3930.00	-1.50	1 / 204	26.47	24.97	0.314	33.01	-8.04

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	3705.00	-1.50	1 / 13	25.63	24.13	0.259	33.01	-8.88
		3840.00	-1.50	1 / 37	25.68	24.18	0.262	33.01	-8.83
		3975.00	-1.50	1 / 37	25.59	24.09	0.256	33.01	-8.92
	QPSK	3705.00	-1.50	1 / 25	25.50	24.00	0.251	33.01	-9.01
		3840.00	-1.50	1 / 37	25.67	24.17	0.261	33.01	-8.84
		3975.00	-1.50	1 / 25	25.70	24.20	0.263	33.01	-8.81
	16-QAM	3705.00	-1.50	1 / 13	24.71	23.21	0.209	33.01	-9.80
		3840.00	-1.50	1 / 25	23.70	22.20	0.166	33.01	-10.81
		3975.00	-1.50	1 / 25	20.68	19.18	0.083	33.01	-13.83
	64-QAM	3707.51	-1.50	1 / 25	25.63	24.13	0.259	33.01	-8.88
		3840.00	-1.50	1 / 25	25.70	24.20	0.263	33.01	-8.81
		3972.50	-1.50	1 / 13	25.63	24.13	0.259	33.01	-8.88
15 MHz	QPSK	3707.51	-1.50	1 / 37	25.62	24.12	0.258	33.01	-8.89
		3840.00	-1.50	1 / 37	25.57	24.07	0.255	33.01	-8.94
		3972.50	-1.50	1 / 25	25.38	23.88	0.244	33.01	-9.13
	16-QAM	3972.50	-1.50	1 / 37	24.69	23.19	0.208	33.01	-9.82
		3840.00	-1.50	1 / 25	23.63	22.13	0.163	33.01	-10.88
		3840.00	-1.50	1 / 25	20.72	19.22	0.084	33.01	-13.79
	256-QAM	3710.01	-1.50	1 / 25	25.70	24.20	0.263	33.01	-8.81
		3840.00	-1.50	1 / 25	25.48	23.98	0.250	33.01	-9.03
		3969.99	-1.50	1 / 37	25.56	24.06	0.255	33.01	-8.95
	QPSK	3710.01	-1.50	1 / 37	25.70	24.20	0.263	33.01	-8.81
		3840.00	-1.50	1 / 25	25.69	24.19	0.262	33.01	-8.82
		3969.99	-1.50	1 / 37	25.50	24.00	0.251	33.01	-9.01
20 MHz	16-QAM	3969.99	-1.50	1 / 13	24.65	23.15	0.207	33.01	-9.86
		3840.00	-1.50	1 / 37	23.62	22.12	0.163	33.01	-10.89
		3710.01	-1.50	1 / 37	20.44	18.94	0.078	33.01	-14.07
	π/2 BPSK	3715.02	-1.50	1 / 19	25.65	24.15	0.260	33.01	-8.96
		3840.00	-1.50	1 / 58	25.70	24.20	0.263	33.01	-8.81
		3964.98	-1.50	1 / 19	25.64	24.14	0.259	33.01	-8.87
	QPSK	3715.02	-1.50	1 / 58	25.56	24.06	0.255	33.01	-8.95
		3840.00	-1.50	1 / 19	25.50	24.00	0.251	33.01	-9.01
		3964.98	-1.50	1 / 58	25.30	23.80	0.240	33.01	-9.21
	64-QAM	3964.98	-1.50	1 / 19	24.77	23.27	0.212	33.01	-9.74
		3840.00	-1.50	1 / 19	23.66	22.16	0.164	33.01	-10.85
		3715.02	-1.50	1 / 39	20.72	19.22	0.084	33.01	-13.79
30 MHz	π/2 BPSK	3720.00	-1.50	1 / 26	25.67	24.17	0.261	33.01	-8.84
		3840.00	-1.50	1 / 53	25.70	24.20	0.263	33.01	-8.81
		3960.00	-1.50	1 / 79	25.68	24.18	0.262	33.01	-8.83
	QPSK	3720.00	-1.50	1 / 79	25.66	24.16	0.261	33.01	-8.85
		3840.00	-1.50	1 / 79	25.61	24.11	0.258	33.01	-8.90
		3960.00	-1.50	1 / 79	25.56	24.06	0.255	33.01	-8.95
	16-QAM	3840.00	-1.50	1 / 79	24.64	23.14	0.206	33.01	-9.87
		3960.00	-1.50	1 / 79	23.70	22.20	0.166	33.01	-10.81
		3840.00	-1.50	1 / 53	20.66	19.16	0.082	33.01	-13.85
	256-QAM	3725.01	-1.50	1 / 33	25.69	24.19	0.262	33.01	-8.82
		3840.00	-1.50	1 / 33	25.69	24.19	0.262	33.01	-8.82
		3954.99	-1.50	1 / 66	25.60	24.10	0.257	33.01	-8.91
40 MHz	QPSK	3725.01	-1.50	1 / 33	25.43	23.93	0.247	33.01	-9.08
		3840.00	-1.50	1 / 66	25.70	24.20	0.263	33.01	-8.81
		3954.99	-1.50	1 / 66	25.48	23.98	0.250	33.01	-9.03
	16-QAM	3954.99	-1.50	1 / 33	24.71	23.21	0.209	33.01	-9.80
		3840.00	-1.50	1 / 66	23.58	22.08	0.161	33.01	-10.93
		3954.99	-1.50	1 / 66	20.66	19.16	0.082	33.01	-13.85
	256-QAM	3730.02	-1.50	1 / 81	25.50	24.00	0.251	33.01	-9.01
		3840.00	-1.50	1 / 40	25.64	24.14	0.259	33.01	-8.87
		3949.98	-1.50	1 / 121	25.65	24.15	0.260	33.01	-8.86
50 MHz	QPSK	3730.02	-1.50	1 / 121	25.65	24.15	0.260	33.01	-8.86
		3840.00	-1.50	1 / 121	25.60	24.10	0.257	33.01	-8.91
		3954.99	-1.50	1 / 66	25.60	24.10	0.257	33.01	-8.91
	16-QAM	3954.99	-1.50	1 / 66	25.43	23.93	0.247	33.01	-9.08
		3840.00	-1.50	1 / 66	25.70	24.20	0.263	33.01	-8.81
		3954.99	-1.50	1 / 66	25.48	23.98	0.250	33.01	-9.03
	64-QAM	3954.99	-1.50	1 / 66	23.71	22.21	0.161	33.01	-10.93
		3840.00	-1.50	1 / 66	20.66	19.16	0.082	33.01	-13.85
		3954.99	-1.50	1 / 66	19.13	0.082	33.01	-13.88	
60 MHz	π/2 BPSK	3730.02	-1.50	1 / 40	25.64	24.14	0.259	33.01	-8.87
		3840.00	-1.50	1 / 40	25.64	24.14	0.259	33.01	-8.86
		3949.98	-1.50	1 / 121	25.65	24.15	0.260	33.01	-8.86
	QPSK	3730.02	-1.50	1 / 121	25.65	24.15	0.260	33.01	-8.86
		3840.00	-1.50	1 / 121	25.60	24.10	0.257	33.01	-8.91
		3949.98	-1.50	1 / 81	25.70	24.20	0.263	33.01	-8.81
	16-QAM	3730.02	-1.50	1 / 40	24.68	23.18	0.208	33.01	-9.83
		3730.02	-1.50	1 / 40	23.71	22.21	0.166	33.01	-10.80
		3730.02	-1.50	1 / 40	20.64	19.14	0.082	33.01	-13.88
70 MHz	π/2 BPSK	3735.00	-1.50	1 / 141	25.57	24.07	0.255	33.01	-8.94
		3840.00	-1.50	1 / 141	25.52	24.02	0.252	33.01	-8.99
		3945.00	-1.50	1 / 47	25.53	24.03	0.253	33.01	-8.98
	QPSK	3735.00	-1.50	1 / 94	25.61	24.11	0.256	33.01	-8.90
		3840.00	-1.50	1 / 141	25.70	24.20	0.263	33.01	-8.81
		3945.00	-1.50	1 / 47	25.34	23.84	0.242	33.01	-9.17
	16-QAM	3735.00	-1.50	1 / 94	24.54	23.04	0.201	33.01	-9.97
		3735.00	-1.50	1 / 94	23.68	22.18	0.165	33.01	-10.83
		3945.00	-1.50	1 / 141	20.64	19.14	0.082	33.01	-13.87
80 MHz	π/2 BPSK	3740.01	-1.50	1 / 162	25.67	24.17	0.261	33.01	-8.84
		3840.00	-1.50	1 / 162	25.52	24.02	0.252	33.01	-8.99
		3939.99	-1.50	1 / 108	25.70	24.20	0.263	33.01	-8.81
	QPSK	3740.01	-1.50	1 / 54	25.68	24.18	0.262	33.01	-8.83
		3840.00	-1.50	1 / 54	25.51	24.01	0.252	33.01	-9.00
		3939.99	-1.50	1 / 54	25.51	24.01	0.252	33.01	-9.00
	16-QAM	3840.00	-1.50	1 / 162	24.70	23.20	0.209	33.01	-9.81
		3840.00	-1.50	1 / 108	23.66	22.16	0.164	33.01	-10.85
		3740.01	-1.50	1 / 108	20.71	19.21	0.083	33.01	-13.80
90 MHz	π/2 BPSK	3745.02	-1.50	1 / 183	25.70	24.20	0.263	33.01	-8.81
		3840.00	-1.50	1 / 61	25.63	24.13	0.259	33.01	-8.88
		3745.02	-1.50	1 / 183	25.57	24.07	0.255	33.01	-8.94
	QPSK	3840.00	-1.50	1 / 122	25.63	24.13	0.259	33.01	-8.88
		3934.98	-1.50	1 / 61	25.69	24.19	0.262	33.01	-8.82
		3745.02	-1.50	1 / 122	24.71	23.21	0.209	33.01	-9.80
	16-QAM	3745.02	-1.50	1 / 183	23.69	22.19	0.166	33.01	-10.82
		3934.98	-1.50	1 / 61	20.70	19.20	0.083	33.01	-13.81
		3750.00	-1.50	1 / 136	25.67	24.17	0.261	33.01	-8.84
100 MHz	π/2 BPSK	3840.00	-1.50	1 / 204	25.61	24.11	0.258	33.01	-8.90

7.6.4 Antenna 2a – EIRP

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	π/2 BPSK	3455.01	1.40	1 / 17	23.24	24.64	0.291	33.01	-8.37
		3500.01	1.40	1 / 6	23.43	24.83	0.304	33.01	-8.18
		3544.98	1.40	1 / 12	23.50	24.90	0.309	33.01	-8.11
		3455.01	1.40	1 / 12	23.41	24.81	0.303	33.01	-8.20
		3500.01	1.40	1 / 12	23.43	24.83	0.304	33.01	-8.18
	QPSK	3544.98	1.40	1 / 17	23.47	24.87	0.307	33.01	-8.14
		3454.98	1.40	1 / 17	23.47	24.87	0.307	33.01	-8.14
		3455.01	1.40	1 / 12	21.47	22.87	0.194	33.01	-10.14
		3500.01	1.40	1 / 6	18.51	19.91	0.098	33.01	-13.10
		3457.50	1.40	1 / 19	23.19	24.59	0.288	33.01	-8.42
15 MHz	π/2 BPSK	3500.01	1.40	1 / 19	23.39	24.79	0.301	33.01	-8.22
		3542.49	1.40	1 / 28	23.50	24.90	0.309	33.01	-8.11
		3457.50	1.40	1 / 19	23.44	24.84	0.305	33.01	-8.17
		3500.01	1.40	1 / 19	23.40	24.80	0.302	33.01	-8.21
		3542.49	1.40	1 / 19	23.40	24.80	0.302	33.01	-8.21
	QPSK	3457.50	1.40	1 / 19	22.53	23.93	0.247	33.01	-9.08
		3500.01	1.40	1 / 28	21.52	22.92	0.196	33.01	-10.09
		3500.01	1.40	1 / 28	21.52	22.92	0.196	33.01	-10.09
		3457.50	1.40	1 / 9	18.41	19.81	0.096	33.01	-13.20
		3460.02	1.40	1 / 37	23.39	24.79	0.301	33.01	-8.22
20 MHz	π/2 BPSK	3500.01	1.40	1 / 25	23.47	24.87	0.307	33.01	-8.14
		3540.00	1.40	1 / 37	23.50	24.90	0.309	33.01	-8.11
		3460.02	1.40	1 / 13	23.29	24.69	0.294	33.01	-8.32
		3500.01	1.40	1 / 13	23.35	24.75	0.299	33.01	-8.26
		3540.00	1.40	1 / 13	23.40	24.80	0.302	33.01	-8.21
	QPSK	3460.02	1.40	1 / 25	22.50	23.90	0.245	33.01	-9.11
		3500.01	1.40	1 / 25	21.45	22.85	0.193	33.01	-10.16
		3500.01	1.40	1 / 25	21.45	22.85	0.193	33.01	-10.16
		3540.00	1.40	1 / 13	18.49	19.89	0.097	33.01	-13.12
		3465.00	1.40	1 / 19	23.50	24.90	0.309	33.01	-8.11
30 MHz	π/2 BPSK	3500.01	1.40	1 / 19	23.43	24.83	0.304	33.01	-8.18
		3534.99	1.40	1 / 39	23.39	24.79	0.301	33.01	-8.22
		3465.00	1.40	1 / 58	23.35	24.75	0.299	33.01	-8.26
		3500.01	1.40	1 / 39	23.34	24.74	0.298	33.01	-8.27
		3534.99	1.40	1 / 19	23.36	24.76	0.299	33.01	-8.25
	QPSK	3465.00	1.40	1 / 19	22.49	23.89	0.245	33.01	-9.12
		3500.01	1.40	1 / 39	21.46	22.86	0.193	33.01	-10.15
		3500.01	1.40	1 / 19	18.47	19.87	0.097	33.01	-13.14
		3465.00	1.40	1 / 19	18.47	19.87	0.097	33.01	-13.14
		3470.01	1.40	1 / 79	23.50	24.90	0.309	33.01	-8.11
40 MHz	π/2 BPSK	3500.01	1.40	1 / 26	23.49	24.89	0.308	33.01	-8.12
		3529.98	1.40	1 / 79	23.49	24.89	0.308	33.01	-8.12
		3470.01	1.40	1 / 79	23.32	24.72	0.296	33.01	-8.29
		3500.01	1.40	1 / 53	23.48	24.88	0.308	33.01	-8.13
		3529.98	1.40	1 / 26	23.40	24.80	0.302	33.01	-8.21
	QPSK	3529.98	1.40	1 / 53	22.42	23.82	0.241	33.01	-9.19
		3525.00	1.40	1 / 26	21.51	22.91	0.195	33.01	-10.10
		3525.00	1.40	1 / 79	18.49	19.89	0.097	33.01	-13.12
		3475.02	1.40	1 / 66	23.41	24.81	0.303	33.01	-8.20
		3500.01	1.40	1 / 99	23.36	24.76	0.299	33.01	-8.25
50 MHz	π/2 BPSK	3525.00	1.40	1 / 99	23.50	24.90	0.309	33.01	-8.11
		3475.02	1.40	1 / 99	23.50	24.90	0.309	33.01	-8.11
		3500.01	1.40	1 / 66	23.44	24.84	0.305	33.01	-8.17
		3525.00	1.40	1 / 66	23.25	24.65	0.292	33.01	-8.36
		3525.00	1.40	1 / 99	22.44	23.84	0.242	33.01	-9.17
	QPSK	3525.00	1.40	1 / 99	22.44	23.84	0.242	33.01	-9.17
		3500.01	1.40	1 / 33	21.52	22.92	0.196	33.01	-10.09
		3525.00	1.40	1 / 66	18.55	19.95	0.099	33.01	-13.06
		3480.00	1.40	1 / 121	23.50	24.90	0.309	33.01	-8.11
		3500.01	1.40	1 / 81	23.36	24.76	0.299	33.01	-8.25
60 MHz	π/2 BPSK	3519.99	1.40	1 / 121	23.43	24.83	0.304	33.01	-8.18
		3480.00	1.40	1 / 81	23.25	24.65	0.292	33.01	-8.36
		3500.01	1.40	1 / 40	23.28	24.68	0.294	33.01	-8.33
		3519.99	1.40	1 / 121	23.44	24.84	0.305	33.01	-8.17
		3500.01	1.40	1 / 81	22.41	23.81	0.240	33.01	-9.20
	QPSK	3500.01	1.40	1 / 81	22.53	23.93	0.247	33.01	-9.08
		3519.98	1.40	1 / 141	21.49	22.89	0.195	33.01	-10.12
		3480.00	1.40	1 / 81	21.48	22.88	0.194	33.01	-10.13
		3500.01	1.40	1 / 40	18.45	19.85	0.097	33.01	-13.16
		3485.01	1.40	1 / 47	23.32	24.72	0.296	33.01	-8.29
70 MHz	π/2 BPSK	3500.01	1.40	1 / 141	23.49	24.89	0.308	33.01	-8.12
		3518.98	1.40	1 / 141	23.50	24.90	0.309	33.01	-8.11
		3485.01	1.40	1 / 94	23.47	24.87	0.307	33.01	-8.14
		3500.01	1.40	1 / 94	23.35	24.75	0.299	33.01	-8.26
		3518.98	1.40	1 / 47	23.45	24.85	0.305	33.01	-8.16
	QPSK	3485.01	1.40	1 / 94	22.53	23.93	0.247	33.01	-9.08
		3500.01	1.40	1 / 141	21.41	22.89	0.195	33.01	-10.12
		3485.01	1.40	1 / 141	21.49	22.89	0.195	33.01	-10.12
		3485.01	1.40	1 / 47	18.49	19.89	0.097	33.01	-13.12
		3490.02	1.40	1 / 54	23.41	24.81	0.303	33.01	-8.20
80 MHz	π/2 BPSK	3500.01	1.40	1 / 162	23.37	24.77	0.300	33.01	-8.24
		3510.00	1.40	1 / 162	23.50	24.90	0.309	33.01	-8.11
		3490.02	1.40	1 / 54	23.37	24.77	0.300	33.01	-8.24
		3500.01	1.40	1 / 108	23.44	24.84	0.305	33.01	-8.17
		3510.00	1.40	1 / 108	23.25	24.65	0.292	33.01	-8.36
	QPSK	3490.02	1.40	1 / 162	22.46	23.86	0.243	33.01	-9.15
		3510.00	1.40	1 / 108	21.45	22.85	0.193	33.01	-10.16
		3510.00	1.40	1 / 54	18.51	19.91	0.098	33.01	-13.10
		3495.00	1.40	1 / 61	23.42	24.82	0.303	33.01	-8.19
		3500.01	1.40	1 / 61	23.38	24.78	0.301	33.01	-8.23
90 MHz	π/2 BPSK	3504.99	1.40	1 / 61	23.31	24.71	0.296	33.01	-8.30
		3495.00	1.40	1 / 61	23.35	24.75	0.299	33.01	-8.26
		3504.99	1.40	1 / 61	23.38	24.78	0.301	33.01	-8.23
		3504.99	1.40	1 / 61	22.44	23.84	0.242	33.01	-9.17
		3504.99	1.40	1 / 122	21.49	22.89	0.195	33.01	-10.12
	QPSK	3504.99	1.40	1 / 183	18.44	19.84	0.096	33.01	-13.17
		3500.01	1.40	1 / 68	23.08	24.48	0.281	33.01	-8.53
		3500.01	1.40	1 / 204	23.37	24.77	0.300	33.01	-8.24
		3500.01	1.40	1 / 68	23.35	24.75	0.299	33.01	-8.26
		3500.01	1.40	1 / 136	23.21	24.61	0.289	33.01	-8.40
100 MHz	π/2 BPSK	3500.01	1.40	1 / 204	23.48	24.88	0.308	33.01	-8.13
		3500.01	1.40	1 / 204	22.47	23.87	0.244	33.01	-9.14
		3500.01	1.40	1 / 136	21.42	22.82	0.191	33.01	-10.19
		3500.01	1.40	1 / 136	18.34	19.74	0.094	33.01	-13.27

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	
10 MHz	π/2 BPSK	3455.01	1.40	1 / 6	23.37	24.77	0.300	33.01	-8.24	
		3500.01	1.40	1 / 12	23.33	24.73	0.297	33.01	-8.28	
		3544.98	1.40	1 / 12	23.50	24.90	0.309	33.01	-8.11	
	QPSK	3455.01	1.40	1 / 12	23.36	24.76	0.299	33.01	-8.25	
		3500.01	1.40	1 / 17	23.33	24.73	0.297	33.01	-8.28	
		3544.98	1.40	1 / 6	23.40	24.80	0.302	33.01	-8.21	
		16-QAM	3455.01	1.40	1 / 17	22.50	23.90	0.245	33.01	-9.11
	64-QAM	3455.01	1.40	1 / 17	21.48	22.88	0.194	33.01	-10.13	
		256-QAM	3455.01	1.40	1 / 17	18.46	19.66	0.097	33.01	-13.15
	15 MHz	3457.50	1.40	1 / 19	23.31	24.71	0.296	33.01	-8.30	
		3500.01	1.40	1 / 9	23.49	24.89	0.308	33.01	-8.12	
		3542.49	1.40	1 / 9	23.46	24.86	0.306	33.01	-8.15	
		3457.50	1.40	1 / 9	23.50	24.90	0.309	33.01	-8.11	
		3500.01	1.40	1 / 9	23.39	24.79	0.301	33.01	-8.22	
		3542.49	1.40	1 / 9	23.43	24.83	0.304	33.01	-8.18	
		16-QAM	3500.01	1.40	1 / 28	22.50	23.90	0.245	33.01	-9.11
	64-QAM	3500.01	1.40	1 / 19	21.48	22.88	0.194	33.01	-10.13	
		256-QAM	3500.01	1.40	1 / 28	18.44	19.84	0.096	33.01	-13.17
		3460.02	1.40	1 / 25	23.50	24.90	0.309	33.01	-8.11	
	20 MHz	3500.01	1.40	1 / 13	23.39	24.79	0.301	33.01	-8.22	
		3540.00	1.40	1 / 25	23.46	24.86	0.306	33.01	-8.15	
		3460.02	1.40	1 / 37	23.32	24.72	0.296	33.01	-8.29	
		3500.01	1.40	1 / 25	23.42	24.82	0.303	33.01	-8.19	
		3540.00	1.40	1 / 13	23.48	24.88	0.308	33.01	-8.13	
		16-QAM	3500.01	1.40	1 / 13	22.47	23.87	0.244	33.01	-9.14
	64-QAM	3540.00	1.40	1 / 25	21.45	22.85	0.193	33.01	-10.16	
		256-QAM	3540.00	1.40	1 / 13	18.44	19.88	0.097	33.01	-13.13
		3465.00	1.40	1 / 58	23.34	24.74	0.294	33.01	-8.27	
	30 MHz	3500.01	1.40	1 / 58	23.48	24.88	0.308	33.01	-8.13	
		3534.99	1.40	1 / 58	23.50	24.90	0.309	33.01	-8.11	
		3465.00	1.40	1 / 58	23.32	24.72	0.296	33.01	-8.29	
		3500.01	1.40	1 / 39	23.39	24.79	0.301	33.01	-8.22	
		3534.99	1.40	1 / 58	23.36	24.76	0.299	33.01	-8.25	
		16-QAM	3465.00	1.40	1 / 19	22.37	23.77	0.238	33.01	-9.24
	64-QAM	3500.01	1.40	1 / 58	21.42	22.82	0.191	33.01	-10.19	
		256-QAM	3500.01	1.40	1 / 19	18.44	19.88	0.097	33.01	-13.13
		3470.01	1.40	1 / 26	23.22	24.62	0.290	33.01	-8.39	
	40 MHz	3500.01	1.40	1 / 26	23.27	24.67	0.293	33.01	-8.34	
		3529.98	1.40	1 / 26	23.44	24.84	0.305	33.01	-8.17	
		3470.01	1.40	1 / 26	23.50	24.90	0.309	33.01	-8.11	
		3500.01	1.40	1 / 53	23.32	24.72	0.296	33.01	-8.29	
		3529.98	1.40	1 / 53	23.38	24.78	0.301	33.01	-8.23	
		16-QAM	3500.01	1.40	1 / 79	22.50	23.90	0.245	33.01	-9.11
	64-QAM	3500.01	1.40	1 / 53	21.54	22.94	0.197	33.01	-10.07	
		256-QAM	3529.98	1.40	1 / 79	18.54	19.94	0.099	33.01	-13.07
		3475.02	1.40	1 / 99	23.29	24.69	0.294	33.01	-8.32	
	50 MHz	3500.01	1.40	1 / 66	23.50	24.90	0.309	33.01	-8.11	
		3525.00	1.40	1 / 99	23.47	24.87	0.307	33.01	-8.14	
		3475.02	1.40	1 / 33	23.37	24.77	0.300	33.01	-8.24	
		3500.01	1.40	1 / 33	23.39	24.79	0.301	33.01	-8.22	
		3525.00	1.40	1 / 99	23.44	24.84	0.305	33.01	-8.17	
		16-QAM	3500.01	1.40	1 / 66	22.51	23.91	0.246	33.01	-9.10
	64-QAM	3475.02	1.40	1 / 99	21.56	22.96	0.198	33.01	-10.05	
		256-QAM	3525.00	1.40	1 / 33	18.55	19.95	0.099	33.01	-13.06
		3480.00	1.40	1 / 81	23.49	24.89	0.308	33.01	-8.12	
	60 MHz	3500.01	1.40	1 / 121	23.38	24.78	0.301	33.01	-8.23	
		3519.99	1.40	1 / 81	23.41	24.81	0.303	33.01	-8.20	
		3480.00	1.40	1 / 121	23.50	24.90	0.309	33.01	-8.11	
		3500.01	1.40	1 / 40	23.50	24.90	0.309	33.01	-8.11	
		3519.99	1.40	1 / 121	23.43	24.83	0.304	33.01	-8.18	
		16-QAM	3480.00	1.40	1 / 121	22.46	23.86	0.243	33.01	-9.15
	64-QAM	3519.99	1.40	1 / 81	21.40	22.80	0.191	33.01	-10.21	
		256-QAM	3480.00	1.40	1 / 40	18.43	19.83	0.096	33.01	-13.18
		3485.01	1.40	1 / 141	23.44	24.84	0.305	33.01	-8.17	
	70 MHz	3500.01	1.40	1 / 94	23.43	24.83	0.304	33.01	-8.18	
		3514.98	1.40	1 / 141	23.43	24.83	0.304	33.01	-8.18	
		3485.01	1.40	1 / 47	23.50	24.90	0.309	33.01	-8.11	
		3500.01	1.40	1 / 94	23.20	24.60	0.288	33.01	-8.41	
		3514.98	1.40	1 / 47	23.34	24.74	0.298	33.01	-8.27	
		16-QAM	3514.98	1.40	1 / 141	22.49	23.89	0.245	33.01	-9.12
	64-QAM	3485.01	1.40	1 / 94	21.45	22.85	0.193	33.01	-10.16	
		256-QAM	3514.98	1.40	1 / 47	18.45	19.85	0.097	33.01	-13.16
		3490.02	1.40	1 / 162	23.47	24.87	0.307	33.01	-8.14	
	80 MHz	3500.01	1.40	1 / 162	23.42	24.82	0.303	33.01	-8.19	
		3510.00	1.40	1 / 108	23.49	24.89	0.308	33.01	-8.12	
		3490.02	1.40	1 / 162	23.50	24.90	0.309	33.01	-8.11	
		3500.01	1.40	1 / 54	23.29	24.69	0.294	33.01	-8.32	
		3510.00	1.40	1 / 54	23.44	24.84	0.305	33.01	-8.17	
		16-QAM	3500.01	1.40	1 / 54	22.51	23.91	0.246	33.01	-9.10
	64-QAM	3510.00	1.40	1 / 108	21.56	22.96	0.198	33.01	-10.05	
		256-QAM	3500.01	1.40	1 / 108	18.57	19.97	0.099	33.01	-13.04
		3495.00	1.40	1 / 183	23.46	24.86	0.306	33.01	-8.15	
	90 MHz	3500.01	1.40	1 / 61	23.50	24.90	0.309	33.01	-8.11	
		3504.99	1.40	1 / 61	23.44	24.84	0.305	33.01	-8.17	
		3495.00	1.40	1 / 61	23.44	24.84	0.305	33.01	-8.17	
		3500.01	1.40	1 / 61	23.31	24.71	0.298	33.01	-8.30	
		3504.99	1.40	1 / 61	23.35	24.75	0.299	33.01	-8.26	
		16-QAM	3500.01	1.40	1 / 183	22.51	23.91	0.246	33.01	-9.10
	64-QAM	3504.99	1.40	1 / 61	21.54	22.94	0.197	33.01	-10.07	
		256-QAM	3495.00	1.40	1 / 183	18.45	19.85	0.097	33.01	-13.16
		3500.01	1.40	1 / 204	23.47	24.87	0.307	33.01	-8.14	
	100 MHz	3500.01	1.40	1 / 204	23.15	24.55	0.285	33.01	-8.46	
		3500.01	1.40	1 / 68	23.27	24.67	0.293	33.01	-8.34	
		3500.01	1.40	1 / 136	23.48	24.88	0.308	33.01	-8.13	
		3500.01	1.40	1 / 204	23.50	24.90	0.309	33.01	-8.11	
		3500.01	1.40	1 / 136	23.45	24.85	0.305	33.01	-8.16	
		16-QAM	3500.01	1.40	1 / 136	22.48	23.88	0.244	33.01	-9.13
	64-QAM	3500.01	1.40	1 / 204	21.50	22.90	0.195	33.01	-10.11	
		256-QAM	3500.01	1.40	1 / 204	18.47	19.87	0.097	33.01	-13.14

Table 7-15. Antenna 2a EIRP Data (NR Band n77 (PC3) – DoD Band)

FCC ID: BCGA2435	element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
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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]
10 MHz	π/2 BPSK	3705.00	1.40	1 / 37	23.26	24.66	0.292	33.01	-8.35
		3840.00	1.40	1 / 37	23.50	24.90	0.309	33.01	-8.11
		3975.00	1.40	1 / 25	23.41	24.81	0.303	33.01	-8.20
	QPSK	3705.00	1.40	1 / 37	23.43	24.83	0.304	33.01	-8.18
		3840.00	1.40	1 / 25	23.47	24.87	0.307	33.01	-8.14
		3975.00	1.40	1 / 37	23.48	24.88	0.308	33.01	-8.13
	16-QAM	3840.00	1.40	1 / 13	22.52	23.92	0.247	33.01	-9.09
		3840.00	1.40	1 / 37	21.52	22.92	0.196	33.01	-10.09
		3705.00	1.40	1 / 13	18.47	19.87	0.097	33.01	-13.14
15 MHz	π/2 BPSK	3707.51	1.40	1 / 25	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 13	23.46	24.86	0.306	33.01	-8.15
		3972.50	1.40	1 / 25	23.37	24.77	0.300	33.01	-8.24
	QPSK	3707.51	1.40	1 / 25	23.44	24.84	0.305	33.01	-8.17
		3840.00	1.40	1 / 25	23.36	24.76	0.299	33.01	-8.25
		3972.50	1.40	1 / 25	23.44	24.84	0.305	33.01	-8.17
	16-QAM	3707.51	1.40	1 / 25	22.45	23.85	0.243	33.01	-9.16
		3972.50	1.40	1 / 37	21.52	22.92	0.196	33.01	-10.09
		3840.00	1.40	1 / 25	18.34	19.74	0.094	33.01	-13.27
20 MHz	π/2 BPSK	3710.01	1.40	1 / 37	23.40	24.80	0.302	33.01	-8.21
		3840.00	1.40	1 / 37	23.34	24.74	0.298	33.01	-8.27
		3969.99	1.40	1 / 37	23.45	24.85	0.305	33.01	-8.16
	QPSK	3710.01	1.40	1 / 25	23.48	24.88	0.308	33.01	-8.13
		3840.00	1.40	1 / 13	23.25	24.65	0.292	33.01	-8.36
		3969.99	1.40	1 / 25	23.50	24.90	0.309	33.01	-8.11
	16-QAM	3969.99	1.40	1 / 37	22.57	23.97	0.249	33.01	-9.04
		3710.01	1.40	1 / 37	21.53	22.93	0.196	33.01	-10.08
		3969.99	1.40	1 / 37	18.53	19.93	0.098	33.01	-13.08
30 MHz	π/2 BPSK	3715.02	1.40	1 / 58	23.45	24.85	0.305	33.01	-8.16
		3840.00	1.40	1 / 39	23.46	24.86	0.306	33.01	-8.15
		3964.98	1.40	1 / 19	23.50	24.90	0.309	33.01	-8.11
	QPSK	3715.02	1.40	1 / 19	23.36	24.76	0.299	33.01	-8.25
		3840.00	1.40	1 / 19	23.43	24.83	0.304	33.01	-8.18
		3964.98	1.40	1 / 19	23.40	24.80	0.302	33.01	-8.21
	16-QAM	3715.02	1.40	1 / 58	22.33	23.73	0.236	33.01	-9.28
		3960.00	1.40	1 / 19	21.41	22.81	0.191	33.01	-10.20
		3715.02	1.40	1 / 39	18.44	19.84	0.096	33.01	-13.17
40 MHz	π/2 BPSK	3720.00	1.40	1 / 79	23.46	24.86	0.306	33.01	-8.15
		3840.00	1.40	1 / 26	23.31	24.71	0.296	33.01	-8.30
		3960.00	1.40	1 / 53	23.15	24.55	0.285	33.01	-8.46
	QPSK	3720.00	1.40	1 / 26	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 79	23.44	24.84	0.305	33.01	-8.17
		3960.00	1.40	1 / 79	23.20	24.60	0.288	33.01	-8.41
	16-QAM	3720.00	1.40	1 / 79	22.49	23.89	0.245	33.01	-9.12
		3960.00	1.40	1 / 53	21.51	22.91	0.195	33.01	-10.10
		3840.00	1.40	1 / 79	18.49	19.89	0.097	33.01	-13.12
50 MHz	π/2 BPSK	3725.01	1.40	1 / 66	23.31	24.71	0.296	33.01	-8.30
		3840.00	1.40	1 / 33	23.50	24.90	0.309	33.01	-8.11
		3954.99	1.40	1 / 66	23.40	24.80	0.302	33.01	-8.21
	QPSK	3725.01	1.40	1 / 66	23.25	24.65	0.292	33.01	-8.36
		3840.00	1.40	1 / 66	23.35	24.75	0.299	33.01	-8.26
		3954.99	1.40	1 / 66	23.45	24.85	0.305	33.01	-8.16
	16-QAM	3840.00	1.40	1 / 99	22.41	23.81	0.240	33.01	-9.20
		3840.00	1.40	1 / 66	21.41	22.81	0.191	33.01	-10.20
		3725.01	1.40	1 / 99	18.47	19.87	0.097	33.01	-13.14
60 MHz	π/2 BPSK	3730.02	1.40	1 / 81	23.31	24.71	0.296	33.01	-8.30
		3840.00	1.40	1 / 81	23.50	24.90	0.309	33.01	-8.11
		3949.98	1.40	1 / 40	23.23	24.63	0.290	33.01	-8.38
	QPSK	3730.02	1.40	1 / 121	23.44	24.84	0.305	33.01	-8.17
		3840.00	1.40	1 / 81	23.41	24.81	0.303	33.01	-8.20
		3949.98	1.40	1 / 81	23.36	24.76	0.299	33.01	-8.25
	16-QAM	3949.98	1.40	1 / 121	22.52	23.92	0.247	33.01	-9.09
		3949.98	1.40	1 / 121	21.52	22.92	0.196	33.01	-10.09
		3730.02	1.40	1 / 40	18.48	19.88	0.097	33.01	-13.13
70 MHz	π/2 BPSK	3735.00	1.40	1 / 47	23.21	24.61	0.289	33.01	-8.40
		3840.00	1.40	1 / 47	23.38	24.78	0.301	33.01	-8.23
		3945.00	1.40	1 / 94	23.18	24.58	0.287	33.01	-8.43
	QPSK	3735.00	1.40	1 / 141	23.22	24.62	0.290	33.01	-8.39
		3840.00	1.40	1 / 47	23.50	24.90	0.309	33.01	-8.11
		3945.00	1.40	1 / 47	23.35	24.75	0.299	33.01	-8.26
	16-QAM	3945.00	1.40	1 / 47	22.47	23.87	0.244	33.01	-9.14
		3945.00	1.40	1 / 94	21.45	22.85	0.193	33.01	-10.16
		3945.00	1.40	1 / 94	18.39	19.79	0.095	33.01	-13.22
80 MHz	π/2 BPSK	3740.01	1.40	1 / 108	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 162	23.31	24.71	0.296	33.01	-8.30
		3939.99	1.40	1 / 108	23.45	24.85	0.305	33.01	-8.16
	QPSK	3740.01	1.40	1 / 54	23.47	24.87	0.307	33.01	-8.14
		3840.00	1.40	1 / 162	23.46	24.86	0.306	33.01	-8.15
		3939.99	1.40	1 / 108	23.43	24.83	0.304	33.01	-8.18
	16-QAM	3740.01	1.40	1 / 54	22.43	23.83	0.242	33.01	-9.18
		3939.99	1.40	1 / 108	21.43	22.83	0.192	33.01	-10.18
		3740.01	1.40	1 / 108	18.52	19.92	0.098	33.01	-13.09
90 MHz	π/2 BPSK	3745.02	1.40	1 / 61	23.49	24.89	0.308	33.01	-8.12
		3840.00	1.40	1 / 61	23.46	24.86	0.306	33.01	-8.15
		3934.98	1.40	1 / 183	23.31	24.71	0.296	33.01	-8.30
	QPSK	3745.02	1.40	1 / 183	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 122	23.47	24.87	0.307	33.01	-8.14
		3934.98	1.40	1 / 122	23.41	24.81	0.303	33.01	-8.20
	16-QAM	3745.02	1.40	1 / 61	22.59	23.99	0.251	33.01	-9.02
		3745.02	1.40	1 / 61	21.58	22.98	0.199	33.01	-10.03
		3934.98	1.40	1 / 183	18.58	19.98	0.100	33.01	-13.03
100 MHz	π/2 BPSK	3750.00	1.40	1 / 204	23.29	24.69	0.294	33.01	-8.32
		3840.00	1.40	1 / 204	23.14	24.54	0.284	33.01	-8.47
		3930.00	1.40	1 / 204	23.39	24.79	0.301	33.01	-8.22
	QPSK	3750.00	1.40	1 / 204	23.49	24.89	0.308	33.01	-8.12
		3840.00	1.40	1 / 136	23.36	24.76	0.299	33.01	-8.25
		3930.00	1.40	1 / 68	23.50	24.90	0.309	33.01	-8.11
	16-QAM	3840.00	1.40	1 / 68	22.50	23.90	0.245	33.01	-9.11
		3930.00	1.40	1 / 204	21.50	22.90	0.195	33.01	-10.11
		3750.00	1.40	1 / 68	18.49	19.89	0.097	33.01	-13.12

Table 7-16. Antenna 2a EIRP Data (NR Band n77 (PC2) – C Band)

FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1C2205090025-05.BCG						

Bandwidth	Mod.	Frequency [MHz]	Ant. Gain [dB]	RB Size/Offset	Conducted Power [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	Tr/2 BPSK	3705.00	1.40	1 / 25	23.42	24.92	0.303	33.01	-8.19
		3840.00	1.40	1 / 25	23.32	24.72	0.296	33.01	-8.29
		3975.00	1.40	1 / 37	23.30	24.70	0.295	33.01	-8.31
		3705.00	1.40	1 / 13	23.40	24.80	0.302	33.01	-8.21
		3840.00	1.40	1 / 25	23.42	24.62	0.303	33.01	-8.19
	QPSK	3975.00	1.40	1 / 25	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 13	22.46	23.86	0.243	33.01	-9.15
		3975.00	1.40	1 / 37	21.49	22.89	0.195	33.01	-10.12
		3705.00	1.40	1 / 25	18.45	19.85	0.097	33.01	-13.16
		3707.51	1.40	1 / 37	23.44	24.84	0.305	33.01	-8.17
15 MHz	Tr/2 BPSK	3704.00	1.40	1 / 25	23.46	24.86	0.306	33.01	-8.15
		3972.50	1.40	1 / 37	23.41	24.81	0.303	33.01	-8.20
		3707.51	1.40	1 / 13	23.48	24.88	0.308	33.01	-8.13
		3840.00	1.40	1 / 25	23.36	24.76	0.299	33.01	-8.25
		3972.50	1.40	1 / 37	23.50	24.90	0.309	33.01	-8.11
	QPSK	3707.51	1.40	1 / 25	22.47	23.87	0.244	33.01	-9.14
		3840.00	1.40	1 / 13	21.49	22.89	0.195	33.01	-10.12
		3972.50	1.40	1 / 37	18.45	19.76	0.095	33.01	-13.25
		3707.51	1.40	1 / 37	18.36	19.76	0.095	33.01	-13.25
		3710.01	1.40	1 / 13	23.42	24.82	0.303	33.01	-8.19
20 MHz	Tr/2 BPSK	3840.00	1.40	1 / 25	23.31	24.71	0.296	33.01	-8.30
		3969.99	1.40	1 / 13	23.50	24.90	0.309	33.01	-8.11
		3710.01	1.40	1 / 37	23.49	24.89	0.308	33.01	-8.12
		3840.00	1.40	1 / 25	23.30	24.70	0.295	33.01	-8.31
		3969.99	1.40	1 / 25	23.38	24.78	0.301	33.01	-8.23
	QPSK	3710.01	1.40	1 / 25	22.53	23.93	0.247	33.01	-9.08
		3840.00	1.40	1 / 13	21.54	22.94	0.197	33.01	-10.07
		3969.99	1.40	1 / 37	18.52	19.92	0.098	33.01	-13.09
		3710.02	1.40	1 / 58	23.35	24.75	0.299	33.01	-8.26
		3840.00	1.40	1 / 19	23.50	24.90	0.309	33.01	-8.11
30 MHz	Tr/2 BPSK	3964.98	1.40	1 / 19	23.16	24.56	0.286	33.01	-8.45
		3715.02	1.40	1 / 58	23.46	24.86	0.306	33.01	-8.15
		3840.00	1.40	1 / 58	23.42	24.82	0.303	33.01	-8.19
		3964.98	1.40	1 / 19	23.50	24.90	0.309	33.01	-8.11
		3710.01	1.40	1 / 19	22.53	23.93	0.247	33.01	-9.08
	QPSK	3840.00	1.40	1 / 19	22.46	23.86	0.243	33.01	-9.15
		3964.98	1.40	1 / 19	21.43	22.83	0.192	33.01	-10.18
		3710.01	1.40	1 / 37	18.52	19.92	0.098	33.01	-13.09
		3715.02	1.40	1 / 58	23.35	24.75	0.299	33.01	-8.26
		3840.00	1.40	1 / 19	23.50	24.90	0.309	33.01	-8.11
40 MHz	Tr/2 BPSK	3964.98	1.40	1 / 99	23.43	24.83	0.304	33.01	-8.18
		3720.00	1.40	1 / 53	23.46	24.86	0.306	33.01	-8.15
		3840.00	1.40	1 / 19	23.29	24.69	0.294	33.01	-8.32
		3960.00	1.40	1 / 53	23.33	24.73	0.297	33.01	-8.28
		3720.00	1.40	1 / 53	23.46	24.86	0.306	33.01	-8.15
	QPSK	3840.00	1.40	1 / 19	22.50	23.90	0.245	33.01	-9.11
		3964.98	1.40	1 / 53	21.39	22.79	0.190	33.01	-10.22
		3715.02	1.40	1 / 19	18.50	19.90	0.098	33.01	-13.11
		3720.00	1.40	1 / 99	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 99	23.43	24.83	0.304	33.01	-8.18
50 MHz	Tr/2 BPSK	3954.99	1.40	1 / 99	23.49	24.89	0.308	33.01	-8.12
		3725.01	1.40	1 / 33	23.26	24.66	0.292	33.01	-8.35
		3840.00	1.40	1 / 99	23.50	24.90	0.309	33.01	-8.11
		3954.99	1.40	1 / 66	23.39	24.79	0.301	33.01	-8.22
		3725.01	1.40	1 / 121	23.50	24.90	0.309	33.01	-8.11
	QPSK	3840.00	1.40	1 / 121	22.47	23.87	0.244	33.01	-9.14
		3954.99	1.40	1 / 99	21.42	22.82	0.191	33.01	-10.19
		3725.01	1.40	1 / 66	18.46	19.86	0.097	33.01	-13.15
		3730.02	1.40	1 / 121	23.47	24.87	0.307	33.01	-8.14
		3840.00	1.40	1 / 81	23.38	24.78	0.301	33.01	-8.23
60 MHz	Tr/2 BPSK	3949.98	1.40	1 / 40	23.16	24.56	0.286	33.01	-8.45
		3730.02	1.40	1 / 81	23.30	24.70	0.295	33.01	-8.31
		3840.00	1.40	1 / 40	23.14	24.54	0.284	33.01	-8.47
		3949.98	1.40	1 / 121	23.50	24.90	0.309	33.01	-8.11
		3730.02	1.40	1 / 121	22.47	23.87	0.244	33.01	-9.14
	QPSK	3840.00	1.40	1 / 121	22.46	23.86	0.243	33.01	-9.15
		3949.98	1.40	1 / 66	21.48	22.88	0.194	33.01	-10.13
		3730.02	1.40	1 / 121	18.49	19.89	0.097	33.01	-13.12
		3735.01	1.40	1 / 47	23.46	24.86	0.306	33.01	-8.15
		3840.00	1.40	1 / 94	23.50	24.90	0.309	33.01	-8.11
70 MHz	Tr/2 BPSK	3945.00	1.40	1 / 141	23.25	24.65	0.292	33.01	-8.36
		3735.00	1.40	1 / 141	23.41	24.81	0.303	33.01	-8.20
		3840.00	1.40	1 / 47	23.38	24.78	0.301	33.01	-8.23
		3945.00	1.40	1 / 141	23.50	24.90	0.309	33.01	-8.11
		3735.00	1.40	1 / 47	22.46	23.87	0.244	33.01	-9.14
	QPSK	3840.00	1.40	1 / 121	22.47	23.87	0.244	33.01	-9.14
		3945.00	1.40	1 / 47	21.39	23.69	0.234	33.01	-9.32
		3735.00	1.40	1 / 66	22.29	23.69	0.234	33.01	-9.32
		3840.00	1.40	1 / 141	21.51	22.91	0.195	33.01	-10.10
		3945.00	1.40	1 / 94	18.51	19.91	0.098	33.01	-13.10
80 MHz	Tr/2 BPSK	3740.01	1.40	1 / 108	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 162	23.37	24.77	0.300	33.01	-8.24
		3939.99	1.40	1 / 54	23.37	24.77	0.300	33.01	-8.24
		3740.01	1.40	1 / 54	23.38	24.78	0.301	33.01	-8.23
		3840.00	1.40	1 / 108	23.37	24.77	0.300	33.01	-8.24
	QPSK	3939.99	1.40	1 / 162	23.48	24.88	0.308	33.01	-8.13
		3740.01	1.40	1 / 54	22.43	23.83	0.242	33.01	-9.18
		3840.00	1.40	1 / 162	21.51	22.91	0.195	33.01	-10.10
		3939.99	1.40	1 / 54	21.51	22.91	0.195	33.01	-10.10
		3740.01	1.40	1 / 108	18.52	19.92	0.098	33.01	-13.09
90 MHz	Tr/2 BPSK	3745.02	1.40	1 / 183	23.46	24.86	0.306	33.01	-8.15
		3840.00	1.40	1 / 61	23.29	24.69	0.294	33.01	-8.32
		3934.98	1.40	1 / 183	23.46	24.86	0.306	33.01	-8.15
		3745.02	1.40	1 / 122	23.49	24.89	0.308	33.01	-8.12
		3840.00	1.40	1 / 122	23.50	24.90	0.309	33.01	-8.11
	QPSK	3934.98	1.40	1 / 122	23.31	24.71	0.296	33.01	-8.30
		3745.02	1.40	1 / 122	23.49	24.89	0.308	33.01	-8.12
		3840.00	1.40	1 / 61	21.47	22.87	0.194	33.01	-10.14
		3935.02	1.40	1 / 183	18.47	19.87	0.097	33.01	-13.14
		3750.00	1.40	1 / 68	23.45	24.85	0.305	33.01	-8.16
100 MHz	Tr/2 BPSK	3840.00	1.40	1 / 136	23.43	24.83	0.304	33.01	-8.18
		3930.00	1.40	1 / 204	23.33	24.73	0.297	33.01	-8.28
		3750.00	1.40	1 / 136	23.50	24.90	0.309	33.01	-8.11
		3840.00	1.40	1 / 68	23.35	24.75	0.299	33.01	-8.26
		3930.00	1.40	1 / 13					

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.

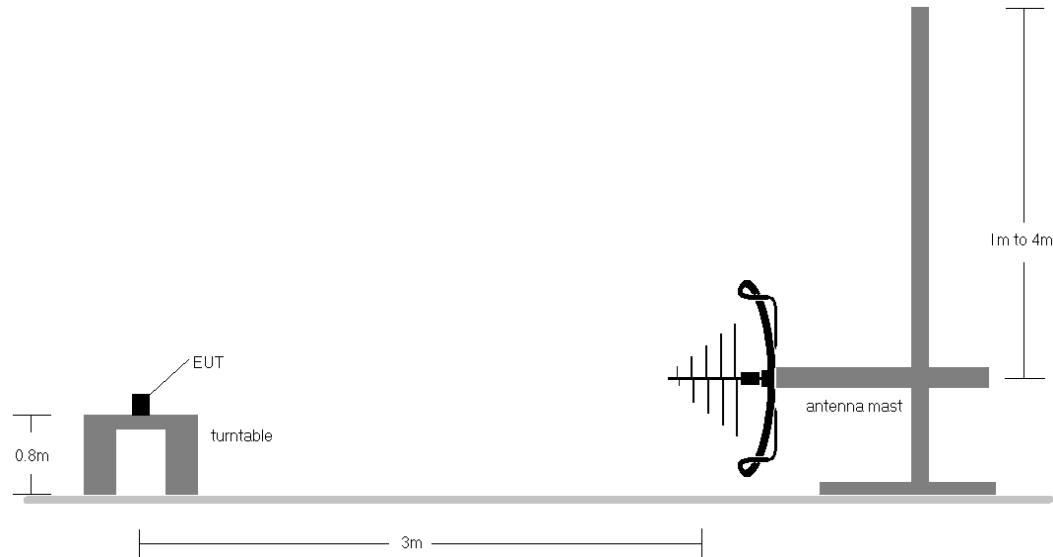


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

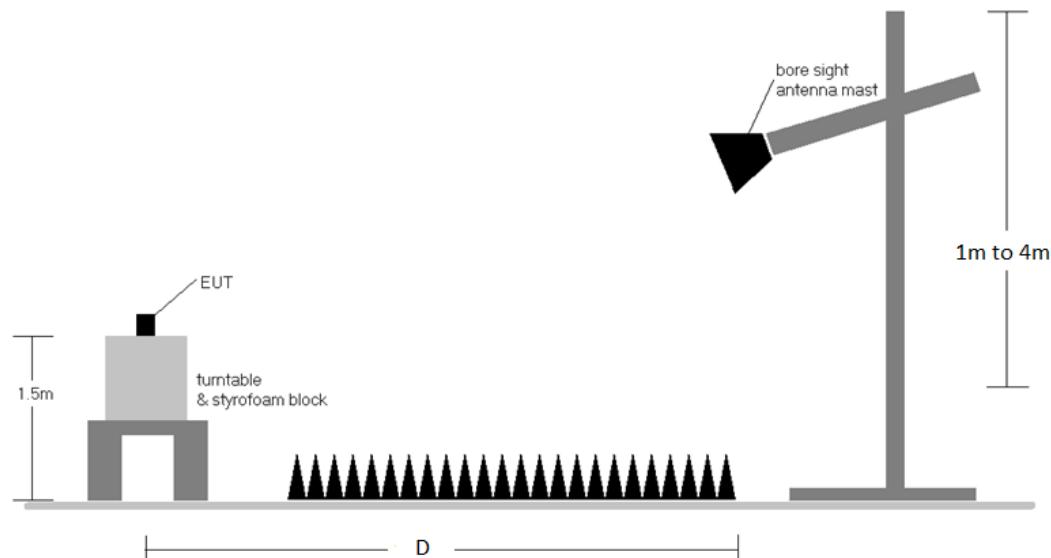


Figure 7-7. Test Instrument & Measurement Setup > 1 GHz

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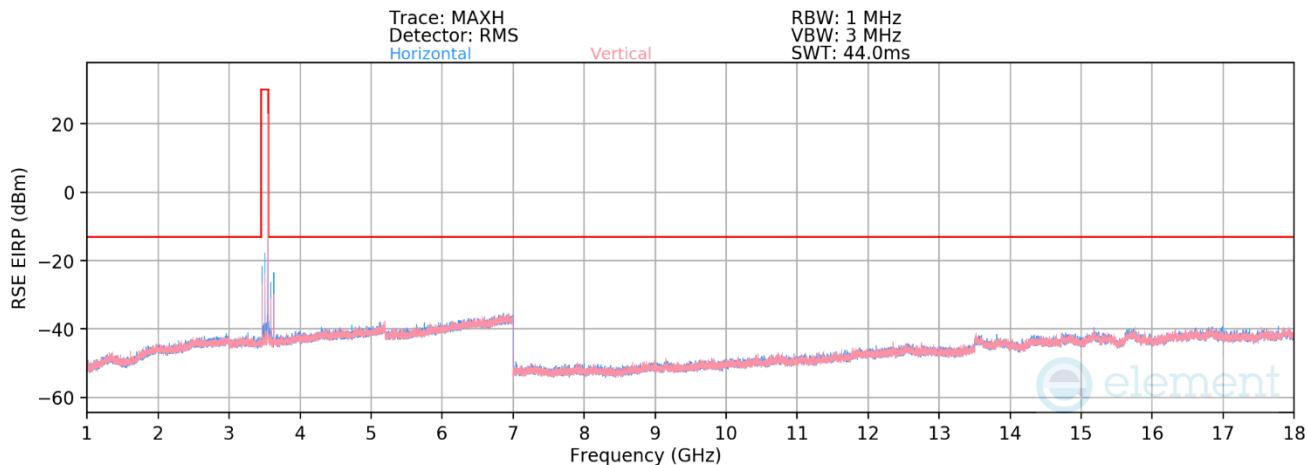
Test Notes

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. $EIRP (\text{dBm}) = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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.

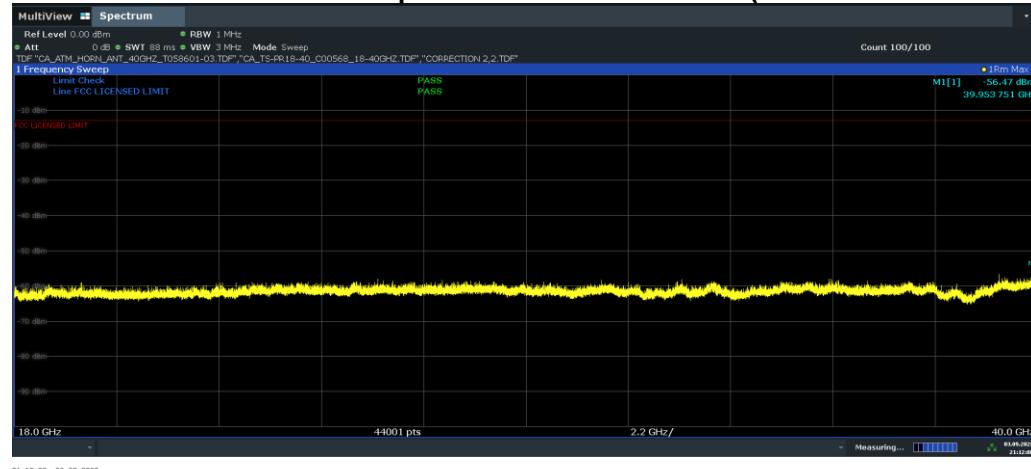
FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7.1 Antenna 3 Radiated Spurious Emission Measurements

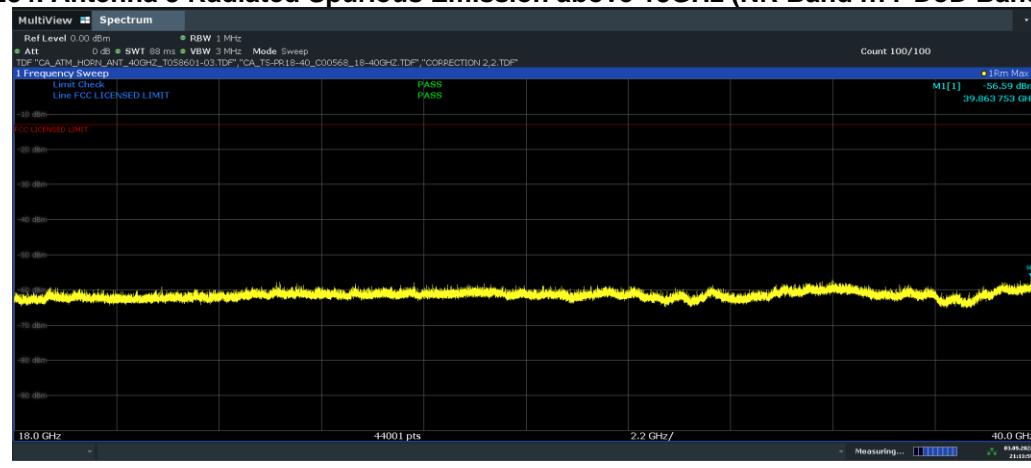
NR Band n77 DoD Band



Plot 7-283. Antenna 3 Radiated Spurious Plot 1GHz – 18GHz (NR Band n77 DoD Band)



Plot 7-284. Antenna 3 Radiated Spurious Emission above 18GHz (NR Band n77 DoD Band, Pol. H)



Plot 7-285. Antenna 3 Radiated Spurious Emission above 18GHz (NR Band n77 DoD Band, Pol. V)

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Bandwidth (MHz):	90
Frequency (MHz):	3495.0
RB / Offset:	1 / 238

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
6990.0	H	-	-	-80.24	11.05	37.81	-57.45	-13.00	-44.45
10485.0	H	-	-	-81.63	15.02	40.39	-54.87	-13.00	-41.87
13980.0	H	-	-	-80.57	18.24	44.67	-50.59	-13.00	-37.59
17475.0	H	-	-	-83.40	23.78	47.38	-47.87	-13.00	-34.87

Table 7-18. Antenna 3 Radiated Spurious Data (NR Band n77 DoD Band – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	3500.0
RB / Offset:	1 / 268

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7000.0	H	-	-	-80.44	11.12	37.68	-57.58	-13.00	-44.58
10500.0	H	-	-	-81.78	14.77	39.99	-55.27	-13.00	-42.27
14000.0	H	-	-	-80.68	18.00	44.32	-50.94	-13.00	-37.94
17500.0	H	-	-	-83.74	24.36	47.62	-47.63	-13.00	-34.63

Table 7-19. Antenna 3 Radiated Spurious Data (NR Band n77 DoD Band – Mid Channel)

Bandwidth (MHz):	90
Frequency (MHz):	3505.0
RB / Offset:	1 / 238

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7010.0	V	-	-	-80.15	11.13	37.98	-57.28	-13.00	-44.28
10515.0	V	-	-	-81.58	14.81	40.23	-55.03	-13.00	-42.03
14020.0	V	-	-	-80.84	18.46	44.62	-50.64	-13.00	-37.64
17525.0	V	-	-	-83.85	24.62	47.77	-47.49	-13.00	-34.49

Table 7-20. Antenna 3 Radiated Spurious Data (NR Band n77 DoD Band – High Channel)

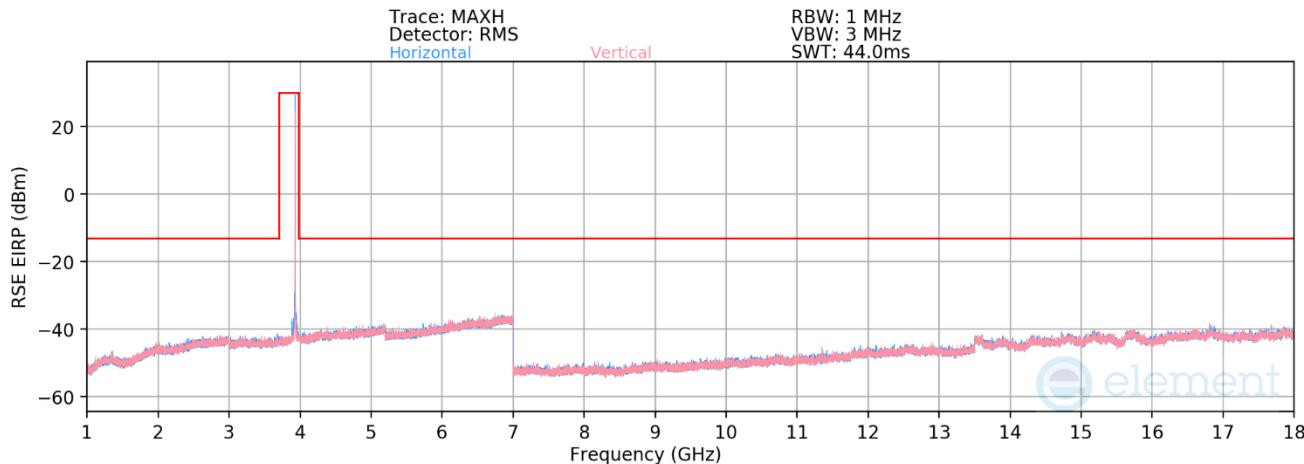
FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090025-05.BCG	Test Dates: 6/7/2022 - 9/1/2022	EUT Type: Tablet Device					

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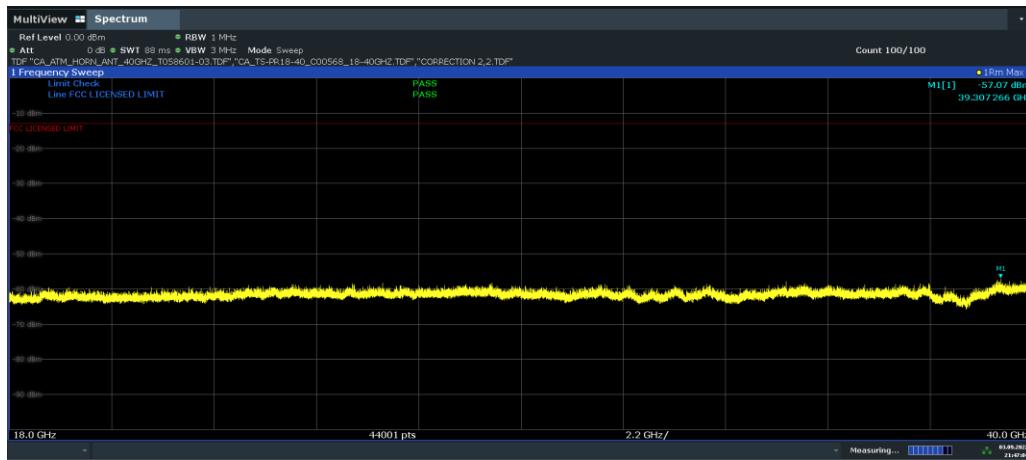
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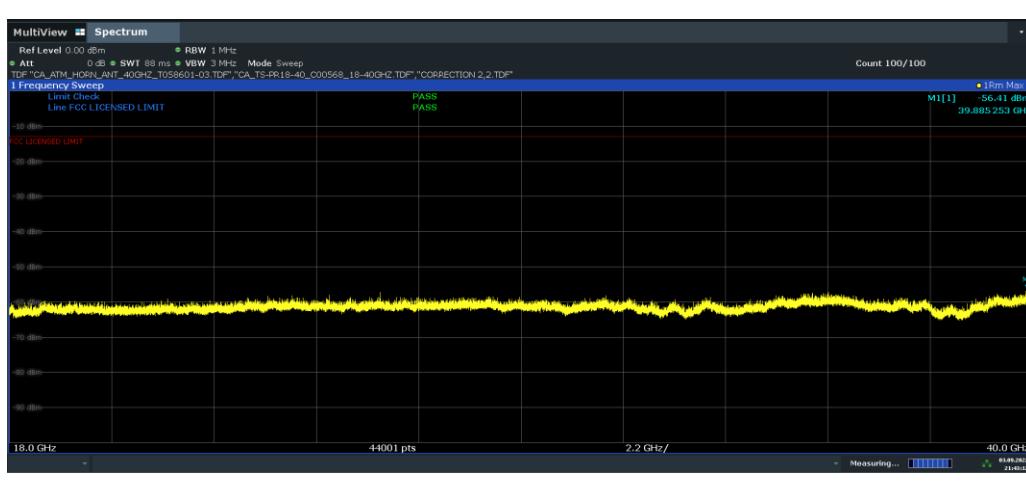
NR Band n77 C Band



Plot 7-286. Antenna 3 Radiated Spurious Plot 1GHz – 18GHz (NR Band n77 C Band)



Plot 7-287. Antenna 3 Radiated Spurious Emission above 18GHz (NR Band n77 C Band, Pol. H)



Plot 7-288. Antenna 3 Radiated Spurious Emission above 18GHz (NR Band n77 C Band, Pol. V)

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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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	V	-	-	-80.06	10.90	37.84	-57.42	-13.00	-44.42
11250.0	V	226	82	-80.64	15.89	42.25	-53.01	-13.00	-40.01
15000.0	V	-	-	-82.62	21.23	45.61	-49.65	-13.00	-36.65

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	V	-	-	-80.41	10.91	37.50	-57.76	-13.00	-44.76
11520.0	V	202	168	-80.38	16.56	43.18	-52.08	-13.00	-39.08
15360.0	V	-	-	-83.99	22.22	45.23	-50.02	-13.00	-37.02

Table 7-22. Antenna 3 Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	V	-	-	-81.55	11.70	37.15	-58.11	-13.00	-45.11
11790.0	V	274	228	-82.99	17.55	41.56	-53.69	-13.00	-40.69
15720.0	V	-	-	-83.97	23.48	46.51	-48.75	-13.00	-35.75

Table 7-23. Antenna 3 Radiated Spurious Data (NR Band n77 C Band – High Channel)

FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
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7.7.2 Antenna 1 Radiated Spurious Emission Measurements

NR Band n77 DoD Band

Bandwidth (MHz):	90
Frequency (MHz):	3495.0
RB / Offset:	1 / 238

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
6990.0	H	-	-	-80.43	11.05	37.62	-57.64	-13.00	-44.64
10485.0	H	-	-	-81.83	15.02	40.19	-55.07	-13.00	-42.07
13980.0	H	-	-	-80.57	18.24	44.67	-50.59	-13.00	-37.59
17475.0	H	-	-	-83.22	23.78	47.56	-47.69	-13.00	-34.69

Table 7-24. Antenna 1 Radiated Spurious Data (NR Band n77 DoD Band – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	3500.0
RB / Offset:	1 / 268

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7000.0	H	-	-	-80.27	11.12	37.85	-57.41	-13.00	-44.41
10500.0	H	-	-	-81.93	14.77	39.84	-55.42	-13.00	-42.42
14000.0	H	-	-	-80.74	18.00	44.26	-51.00	-13.00	-38.00
17500.0	H	-	-	-83.87	24.36	47.49	-47.76	-13.00	-34.76

Table 7-25. Antenna 1 Radiated Spurious Data (NR Band n77 DoD Band – Mid Channel)

Bandwidth (MHz):	90
Frequency (MHz):	3505.0
RB / Offset:	1 / 238

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7010.0	H	-	-	-80.18	11.13	37.95	-57.31	-13.00	-44.31
10515.0	H	-	-	-81.69	14.81	40.12	-55.14	-13.00	-42.14
14020.0	H	-	-	-80.97	18.46	44.49	-50.77	-13.00	-37.77
17525.0	H	-	-	-83.35	24.62	48.27	-46.99	-13.00	-33.99

Table 7-26. Antenna 1 Radiated Spurious Data (NR Band n77 DoD Band – High Channel)

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT						Approved by: Technical 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	H	-	-	-79.90	10.83	37.93	-57.33	-13.00	-44.33
11250.0	H	-	-	-82.95	15.91	39.96	-55.30	-13.00	-42.30
15000.0	H	-	-	-83.54	21.19	44.65	-50.61	-13.00	-37.61

Table 7-27. Antenna 1 Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	H	-	-	-80.96	10.91	36.95	-58.31	-13.00	-45.31
11520.0	H	-	-	-84.91	16.56	38.65	-56.61	-13.00	-43.61
15360.0	H	-	-	-84.08	22.20	45.12	-50.14	-13.00	-37.14

Table 7-28. Antenna 1 Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	H	-	-	-81.58	11.65	37.07	-58.19	-13.00	-45.19
11790.0	H	-	-	-83.14	17.49	41.35	-53.91	-13.00	-40.91
15720.0	H	-	-	-84.24	23.45	46.21	-49.05	-13.00	-36.05

Table 7-29. Antenna 1 Radiated Spurious Data (NR Band n77 C Band – High Channel)

FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
Test Report S/N: 1C2205090025-05.BCG	Test Dates: 6/7/2022 - 9/1/2022	EUT Type: Tablet Device					

7.7.3 Antenna 4b Radiated Spurious Emission Measurements

NR Band n77 DoD Band

Bandwidth (MHz):	90
Frequency (MHz):	3495.0
RB / Offset:	1 / 238

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
6990.0	H	-	-	-79.78	11.05	38.27	-56.99	-13.00	-43.99
10485.0	H	-	-	-81.89	15.02	40.13	-55.13	-13.00	-42.13
13980.0	H	-	-	-80.54	18.24	44.70	-50.56	-13.00	-37.56
17475.0	H	-	-	-83.27	23.78	47.51	-47.74	-13.00	-34.74

Table 7-30. Antenna 4b Radiated Spurious Data (NR Band n77 DoD Band – Low Channel)

Bandwidth (MHz):	100
Frequency (MHz):	3500.0
RB / Offset:	1 / 268

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7000.0	V	-	-	-80.29	11.09	37.80	-57.46	-13.00	-44.46
10500.0	V	-	-	-81.78	14.80	40.02	-55.24	-13.00	-42.24
14000.0	V	-	-	-80.74	18.00	44.26	-50.99	-13.00	-37.99
17500.0	V	-	-	-83.46	24.38	47.92	-47.33	-13.00	-34.33

Table 7-31. Antenna 4b Radiated Spurious Data (NR Band n77 DoD Band – Mid Channel)

Bandwidth (MHz):	90
Frequency (MHz):	3505.0
RB / Offset:	1 / 238

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7010.0	H	-	-	-80.16	11.13	37.97	-57.29	-13.00	-44.29
10515.0	H	-	-	-81.88	14.81	39.93	-55.33	-13.00	-42.33
14020.0	H	-	-	-80.79	18.46	44.67	-50.59	-13.00	-37.59
17525.0	H	-	-	-83.77	24.62	47.85	-47.41	-13.00	-34.41

Table 7-32. Antenna 4b Radiated Spurious Data (NR Band n77 DoD Band – High Channel)

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT						Approved by: Technical 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	H	-	-	-83.29	10.90	34.61	-60.65	-13.00	-47.65
11250.0	H	271	306	-82.77	15.89	40.12	-55.14	-13.00	-42.14
15000.0	H	-	-	-84.46	21.23	43.77	-51.49	-13.00	-38.49

Table 7-33. Antenna 4b Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	H	-	-	-80.82	10.91	37.09	-58.17	-13.00	-45.17
11520.0	H	205	0	-80.24	16.56	43.32	-51.94	-13.00	-38.94
15360.0	H	-	-	-84.22	22.22	45.00	-50.25	-13.00	-37.25

Table 7-34. Antenna 4b Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	H	-	-	-81.21	11.65	37.44	-57.82	-13.00	-44.82
11790.0	H	261	10	-82.11	17.49	42.38	-52.88	-13.00	-39.88
15720.0	H	-	-	-84.32	23.45	46.13	-49.13	-13.00	-36.13

Table 7-35. Antenna 4b Radiated Spurious Data (NR Band n77 C Band – High Channel)

FCC ID: BCGA2435	 element	PART 27 MEASUREMENT REPORT					Approved by: Technical Manager
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7.7.4 Antenna 2a Radiated Spurious Emission Measurements

NR Band n77 DoD 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	H	-	-	-79.46	10.90	38.44	-56.82	-13.00	-43.82
11250.0	H	-	-	-83.19	15.89	39.70	-55.56	-13.00	-42.56
15000.0	H	-	-	-83.51	21.23	44.72	-50.54	-13.00	-37.54

Table 7-36. Antenna 2a Radiated Spurious Data (NR Band n77 DoD Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	H	-	-	-80.69	10.91	37.22	-58.04	-13.00	-45.04
11520.0	H	-	-	-83.36	16.56	40.20	-55.06	-13.00	-42.06
15360.0	H	-	-	-84.70	22.22	44.52	-50.73	-13.00	-37.73

Table 7-37. Antenna 2a Radiated Spurious Data (NR Band n77 DoD Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	H	-	-	-81.25	11.70	37.45	-57.81	-13.00	-44.81
11790.0	H	-	-	-82.84	17.55	41.71	-53.54	-13.00	-40.54
15720.0	H	-	-	-84.41	23.48	46.07	-49.19	-13.00	-36.19

Table 7-38. Antenna 2a Radiated Spurious Data (NR Band n77 DoD Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7500.0	H	-	-	-79.46	10.90	38.44	-56.82	-13.00	-43.82
11250.0	H	-	-	-83.19	15.89	39.70	-55.56	-13.00	-42.56
15000.0	H	-	-	-83.51	21.23	44.72	-50.54	-13.00	-37.54

Table 7-39. Antenna 2a Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7680.0	H	-	-	-80.69	10.91	37.22	-58.04	-13.00	-45.04
11520.0	H	-	-	-83.36	16.56	40.20	-55.06	-13.00	-42.06
15360.0	H	-	-	-84.70	22.22	44.52	-50.73	-13.00	-37.73

Table 7-40. Antenna 2a Radiated Spurious Data (NR Band n77 C Band – 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 [dB μ V/m]	EIRP Spurious Emission Level [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
7860.0	H	-	-	-81.25	11.70	37.45	-57.81	-13.00	-44.81
11790.0	H	-	-	-82.84	17.55	41.71	-53.54	-13.00	-40.54
15720.0	H	-	-	-84.41	23.48	46.07	-49.19	-13.00	-36.19

Table 7-41. Antenna 2a Radiated Spurious Data (NR Band n77 C Band – 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:

- Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- 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

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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

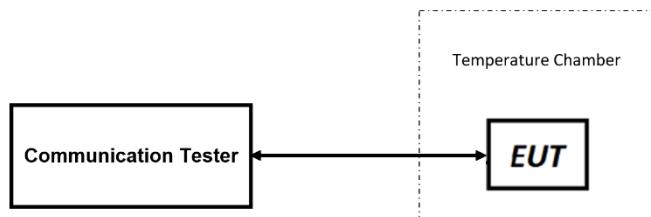


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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

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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	3,494,999,005	3,504,998,998	-521	-454	-0.00001491	
		- 20	3,494,999,002	3,504,998,999	-524	-453	-0.00001499	
		- 10	3,494,998,983	3,504,998,999	-543	-453	-0.00001554	
		0	3,494,999,076	3,504,998,942	-450	-510	-0.00001455	
		+ 10	3,494,999,011	3,504,998,926	-515	-526	-0.00001501	
		+ 20 (Ref)	3,494,999,526	3,504,999,452	0	0	0.00000000	
		+ 30	3,494,999,080	3,504,998,952	-446	-500	-0.00001427	
		+ 40	3,494,999,053	3,504,998,938	-473	-514	-0.00001466	
		+ 50	3,494,998,977	3,504,998,961	-549	-491	-0.00001571	
		Battery Endpoint	3.23	+ 20	3,494,999,047	3,504,998,934	-479	
		-479						
		-518						
		-0.00001478						

Table 7-42. NR Band n77 DoD Band 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	3,749,998,998	3,929,999,030	-463	-493	-0.00001254
		- 20	3,749,998,966	3,929,999,007	-495	-516	-0.00001313
		- 10	3,749,998,984	3,929,999,002	-477	-521	-0.00001326
		0	3,749,998,906	3,929,999,025	-555	-498	-0.00001480
		+ 10	3,749,999,012	3,929,999,025	-449	-498	-0.00001267
		+ 20 (Ref)	3,749,999,461	3,929,999,523	0	0	0.00000000
		+ 30	3,749,999,012	3,929,999,049	-449	-474	-0.00001206
		+ 40	3,749,998,950	3,929,998,988	-511	-535	-0.00001361
		+ 50	3,749,999,004	3,929,999,049	-457	-474	-0.00001206
		Battery Endpoint	3.23	+ 20	3,749,998,948	3,929,999,070	-513

Table 7-43. NR Band n77 C Band 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: BCGA2435** complies with all the requirements of Part 27 of the FCC rules.

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9.0 APPENDIX A

The following antenna gains provided by manufacturer.

Band	Horizontal (dBi)	Vertical (dBi)
B1	0.6	0.6
B2	1.4	0.5
B3	2.1	0.7
B5	-3.3	-1.3
B7	-3.1	-2.7
B8	-2.2	-3.2
B11	0.1	-2
B13	-2.7	-3.0
B17	-2.5	-2.3
B20	-2.6	-1.7
B21	0.2	-1.9
B28	-2.2	-1.1
B30	-4.1	-3.8
B34	-1.6	0.3
B39	1.4	0.6
B40	-5.5	-1.2
B41	-5.6	-2.7
B42	-1.5	-0.1
B48	-1.5	0.0
B66	2.3	0.8
B71	-3.1	-3.6
Band	Horizontal (dBi)	Vertical (dBi)
n41	-5.6	-2.7
n70	2.0	0.7
n77	-1.8	-0.1
n78	-1.0	0.6
n79	-2.9	-0.6

Table 9-1. Cellular Antenna 3 Gain; Type: IFA

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Band	Horizontal (dBi)	Vertical (dBi)
B1	1.3	1.1
B2	1.5	1.3
B3	0.5	-0.5
B5	-3.1	-2.6
B7	-3.1	-0.3
B8	-1.7	-2.8
B11	-1.1	-4
B13	-1.5	-1.9
B17	-2.4	-1.9
B20	-3.4	-2.6
B21	-1.4	-3.9
B28	-2.5	-1.9
B30	-2.8	-2.1
B34	-3.1	-0.8
B39	1.5	0.8
B40	-2.6	-2.1
B41	-3.2	-0.4
B42	-1.2	-3.4
B48	-1.2	-3.5
B66	0.4	-0.9
B71	-1.9	-2.1
n41	-3.2	-0.4
n70	-1.6	-1.9
n77	-0.6	-2.6
Band	Horizontal (dBi)	Vertical (dBi)
n78	-2.9	-2.6
n79	0.1	-0.3

Table 9-2. Cellular Antenna 1 Gain; Type: IFA

FCC ID: BCGA2435	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
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Band	Horizontal (dBi)	Vertical (dBi)
B1	-3.5	-1.3
B2	-3.4	-2.7
B3	-3.7	-3.2
B7	-1.5	0.2
B30	-2.6	-0.3
B39	-3.7	-3
B40	-2.6	0.3
B41	-1.9	-0.4
B42	-2.6	-1
B48	-2.5	-1.6
B66	-3.4	-3.1
n41	-1.9	-0.4
n70	-3.4	-3.1
n77	-1.5	-2.6
n78	-1.6	-2.6
n79	0.1	0.3

Table 9-3. Cellular Antenna 4b Gain; Type: IFA

Band	Horizontal (dBi)	Vertical (dBi)
B42	2.2	1.9
B48	1.8	1.3
n77	-1.3	1.4
n78	-2.5	0.7
n79	-2	0.1

Table 9-4. Cellular Antenna 2a Gain; Type: IFA

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