

## 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	m/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	25.93	0.392	33.01	-7.08
		3544.98	-1.50	1 / 17	27.41	25.91	0.390	33.01	-7.10
	16-QAM	3544.98	-1.50	1 / 17	26.54	25.04	0.319	33.01	-7.97
	64-QAM	3455.01	-1.50	1 / 6	25.58	24.08	0.256	33.01	-8.93
	256-QAM	3455.01	-1.50	1 / 6	22.47	20.97	0.125	33.01	-12.04
	15 MHz	m/2 BPSK	3457.50	-1.50	1 / 19	27.39	25.89	0.388	33.01
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
64-QAM		3500.01	-1.50	1 / 9	25.49	23.99	0.251	33.01	-9.02
256-QAM		3457.50	-1.50	1 / 28	22.48	20.98	0.125	33.01	-12.03
20 MHz		m/2 BPSK	3460.02	-1.50	1 / 37	27.42	25.92	0.391	33.01
	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
	64-QAM	3460.02	-1.50	1 / 13	25.43	23.93	0.247	33.01	-9.08
	256-QAM	3500.01	-1.50	1 / 13	22.20	20.70	0.117	33.01	-12.31
	30 MHz	m/2 BPSK	3465.00	-1.50	1 / 19	27.24	25.74	0.375	33.01
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
64-QAM		3500.01	-1.50	1 / 68	25.50	24.00	0.251	33.01	-9.01
256-QAM		3534.99	-1.50	1 / 39	22.47	20.97	0.125	33.01	-12.04
40 MHz		m/2 BPSK	3470.01	-1.50	1 / 53	27.50	26.00	0.398	33.01
	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
	64-QAM	3500.01	-1.50	1 / 26	25.51	24.01	0.252	33.01	-9.00
	256-QAM	3470.01	-1.50	1 / 26	22.51	21.01	0.126	33.01	-12.00
	50 MHz	m/2 BPSK	3475.02	-1.50	1 / 99	27.39	25.89	0.388	33.01
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
64-QAM		3525.00	-1.50	1 / 66	25.52	24.02	0.252	33.01	-8.99
256-QAM		3525.00	-1.50	1 / 99	22.45	20.95	0.124	33.01	-12.06
60 MHz		m/2 BPSK	3480.00	-1.50	1 / 121	27.44	25.94	0.393	33.01
	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
	64-QAM	3500.01	-1.50	1 / 81	25.47	23.97	0.249	33.01	-9.04
	256-QAM	3500.01	-1.50	1 / 81	22.47	20.97	0.125	33.01	-12.04
	70 MHz	m/2 BPSK	3485.01	-1.50	1 / 141	27.43	25.93	0.392	33.01
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
64-QAM		3514.98	-1.50	1 / 94	25.56	24.06	0.255	33.01	-8.95
256-QAM		3500.01	-1.50	1 / 47	22.55	21.05	0.127	33.01	-11.96
80 MHz		m/2 BPSK	3490.02	-1.50	1 / 108	27.44	25.94	0.393	33.01
	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
	64-QAM	3490.02	-1.50	1 / 162	25.44	23.94	0.248	33.01	-9.07
	256-QAM	3510.00	-1.50	1 / 108	22.40	20.90	0.123	33.01	-12.11
	90 MHz	m/2 BPSK	3495.00	-1.50	1 / 122	27.29	25.79	0.379	33.01
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
64-QAM		3504.99	-1.50	1 / 183	25.45	23.95	0.248	33.01	-9.06
256-QAM		3504.99	-1.50	1 / 183	22.42	20.92	0.124	33.01	-12.09
100 MHz		m/2 BPSK	3500.01	-1.50	1 / 136	27.35	25.85	0.385	33.01
	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 / 68	27.50	26.00	0.398	33.01	-7.01
		3500.01	-1.50	1 / 136	27.49	25.99	0.397	33.01	-7.02
		3500.01	-1.50	1 / 136	27.21	25.71	0.372	33.01	-7.30
	16-QAM	3500.01	-1.50	1 / 68	26.45	24.95	0.313	33.01	-8.06
	64-QAM	3500.01	-1.50	1 / 136	25.48	23.98	0.250	33.01	-9.03
	256-QAM	3500.01	-1.50	1 / 204	22.47	20.97	0.125	33.01	-12.04

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	3455.01	-1.50	1 / 12	25.38	<b>23.88</b>	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	<b>24.20</b>	0.263	33.01	-8.81
	16-QAM	3500.01	-1.50	1 / 12	24.66	23.16	0.207	33.01	-9.85
	64-QAM	3455.01	-1.50	1 / 6	23.62	22.12	0.163	33.01	-10.89
	256-QAM	3544.98	-1.50	1 / 17	20.61	19.11	0.081	33.01	-13.90
	15 MHz	π/2 BPSK	3457.50	-1.50	1 / 28	25.70	<b>24.20</b>	0.263	33.01
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
QPSK		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
16-QAM		3457.50	-1.50	1 / 9	24.68	23.18	0.208	33.01	-9.83
256-QAM	3457.50	-1.50	1 / 19	23.69	22.19	0.166	33.01	-10.82	
20 MHz	π/2 BPSK	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	<b>24.20</b>	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
	16-QAM	3460.02	-1.50	1 / 13	24.65	23.15	0.207	33.01	-9.86
64-QAM	3500.01	-1.50	1 / 37	23.60	22.10	0.162	33.01	-10.91	
256-QAM	3540.00	-1.50	1 / 25	20.67	19.17	0.083	33.01	-13.84	
30 MHz	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	<b>24.20</b>	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
	16-QAM	3500.01	-1.50	1 / 39	24.65	23.15	0.207	33.01	-9.86
	64-QAM	3500.01	-1.50	1 / 39	23.65	22.15	0.164	33.01	-10.86
	256-QAM	3465.00	-1.50	1 / 58	20.54	19.04	0.080	33.01	-13.97
	40 MHz	π/2 BPSK	3470.01	-1.50	1 / 53	25.65	24.15	0.260	33.01
3500.01			-1.50	1 / 53	25.61	24.11	0.258	33.01	-8.90
3529.98			-1.50	1 / 26	25.70	<b>24.20</b>	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
16-QAM		3529.98	-1.50	1 / 79	24.73	23.23	0.210	33.01	-9.78
64-QAM		3500.01	-1.50	1 / 53	23.66	22.16	0.164	33.01	-10.85
256-QAM		3529.98	-1.50	1 / 79	20.61	19.11	0.081	33.01	-13.90
50 MHz		π/2 BPSK	3475.02	-1.50	1 / 99	25.43	23.93	0.247	33.01
	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	<b>24.20</b>	0.263	33.01	-8.81
	16-QAM	3500.01	-1.50	1 / 33	24.75	23.25	0.211	33.01	-9.76
	64-QAM	3500.01	-1.50	1 / 66	23.74	22.24	0.167	33.01	-10.77
	256-QAM	3475.02	-1.50	1 / 99	20.74	19.24	0.084	33.01	-13.77
	60 MHz	π/2 BPSK	3480.00	-1.50	1 / 121	25.62	24.12	0.258	33.01
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	<b>24.20</b>	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
64-QAM		3519.99	-1.50	1 / 121	23.66	22.16	0.164	33.01	-10.85
256-QAM		3480.00	-1.50	1 / 40	20.78	19.28	0.085	33.01	-13.73
70 MHz		π/2 BPSK	3485.01	-1.50	1 / 94	25.70	<b>24.20</b>	0.263	33.01
	3500.01		-1.50	1 / 47	25.68	24.18	0.262	33.01	-8.83
	3514.98		-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
	16-QAM	3485.01	-1.50	1 / 94	24.72	23.22	0.210	33.01	-9.79
	64-QAM	3500.01	-1.50	1 / 47	23.74	22.24	0.167	33.01	-10.77
	256-QAM	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
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	<b>24.20</b>	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
64-QAM	3500.01	-1.50	1 / 54	23.71	22.21	0.166	33.01	-10.80	
256-QAM	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	<b>24.20</b>	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
	16-QAM	3504.99	-1.50	1 / 183	24.70	23.20	0.209	33.01	-9.81
	64-QAM	3504.99	-1.50	1 / 183	23.68	22.18	0.165	33.01	-10.83
	256-QAM	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
3500.01			-1.50	1 / 136	25.55	24.05	0.254	33.01	-8.96
3500.01			-1.50	1 / 204	25.70	<b>24.20</b>	0.263	33.01	-8.81
QPSK		3500.01	-1.50	1 / 204	25.46	23.96	0.249	33.01	-9.05
		3500.01	-1.50	1 / 204	25.64	24.14	0.259	33.01	-8.87
		3500.01	-1.50	1 / 68	25.66	24.16	0.261	33.01	-8.85
16-QAM		3500.01	-1.50	1 / 68	24.70	23.20	0.209	33.01	-9.81
64-QAM	3500.01	-1.50	1 / 68	23.68	22.18	0.165	33.01	-10.83	
256-QAM	3500.01	-1.50	1 / 136	20.72	19.22	0.084	33.01	-13.83	

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 / 25	27.40	<b>25.90</b>	0.389	33.01	-7.11
		3840.00	-1.50	1 / 13	27.50	<b>26.00</b>	0.398	33.01	-7.01
		3975.00	-1.50	1 / 25	27.50	<b>26.00</b>	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
	64-QAM	3840.00	-1.50	1 / 13	25.48	23.98	0.250	33.01	-9.03
	256-QAM	3975.00	-1.50	1 / 25	22.43	20.93	0.124	33.01	-12.08
	256-QAM	3840.00	-1.50	1 / 13	22.46	20.96	0.125	33.01	-12.05
15 MHz	π/2 BPSK	3707.51	-1.50	1 / 37	27.50	<b>26.00</b>	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
	QPSK	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
	16-QAM	3840.00	-1.50	1 / 25	26.41	24.91	0.310	33.01	-8.10
	64-QAM	3972.50	-1.50	1 / 37	25.44	23.94	0.248	33.01	-9.07
	256-QAM	3840.00	-1.50	1 / 13	22.46	20.96	0.125	33.01	-12.05
	256-QAM	3710.01	-1.50	1 / 37	27.32	25.82	0.382	33.01	-7.19
20 MHz	π/2 BPSK	3840.00	-1.50	1 / 37	27.30	25.80	0.380	33.01	-7.21
		3969.99	-1.50	1 / 25	27.50	<b>26.00</b>	0.398	33.01	-7.01
		3710.01	-1.50	1 / 37	27.31	25.81	0.381	33.01	-7.20
	QPSK	3840.00	-1.50	1 / 25	27.30	25.80	0.380	33.01	-7.21
		3969.99	-1.50	1 / 37	27.50	<b>26.00</b>	0.398	33.01	-7.01
		3710.01	-1.50	1 / 37	27.31	25.81	0.381	33.01	-7.20
	16-QAM	3840.00	-1.50	1 / 13	26.48	24.98	0.315	33.01	-8.03
	64-QAM	3840.00	-1.50	1 / 13	25.48	23.98	0.250	33.01	-9.03
	256-QAM	3840.00	-1.50	1 / 37	22.49	20.99	0.126	33.01	-12.02
	256-QAM	3715.02	-1.50	1 / 19	27.17	25.67	0.369	33.01	-7.34
30 MHz	π/2 BPSK	3840.00	-1.50	1 / 39	27.50	<b>26.00</b>	0.398	33.01	-7.01
		3964.98	-1.50	1 / 19	27.46	25.96	0.394	33.01	-7.05
		3715.02	-1.50	1 / 58	27.43	25.93	0.392	33.01	-7.08
	QPSK	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
		3715.02	-1.50	1 / 19	26.43	24.93	0.311	33.01	-8.08
	16-QAM	3840.00	-1.50	1 / 39	25.47	23.97	0.249	33.01	-9.04
	64-QAM	3715.02	-1.50	1 / 58	22.52	21.02	0.126	33.01	-11.99
	256-QAM	3840.00	-1.50	1 / 58	22.52	21.02	0.126	33.01	-11.99
	256-QAM	3720.00	-1.50	1 / 79	27.50	<b>26.00</b>	0.398	33.01	-7.01
40 MHz	π/2 BPSK	3840.00	-1.50	1 / 26	27.37	25.87	0.386	33.01	-7.14
		3960.00	-1.50	1 / 79	27.42	25.92	0.391	33.01	-7.09
		3720.00	-1.50	1 / 53	27.35	25.85	0.385	33.01	-7.16
	QPSK	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
		3720.00	-1.50	1 / 26	26.50	25.00	0.316	33.01	-8.01
	16-QAM	3840.00	-1.50	1 / 26	25.55	24.05	0.254	33.01	-8.96
	64-QAM	3720.00	-1.50	1 / 53	22.56	21.06	0.128	33.01	-11.95
	256-QAM	3725.01	-1.50	1 / 33	27.47	25.97	0.395	33.01	-7.04
	256-QAM	3840.00	-1.50	1 / 66	27.35	25.85	0.385	33.01	-7.16
50 MHz	π/2 BPSK	3954.99	-1.50	1 / 99	27.48	25.98	0.396	33.01	-7.03
		3725.01	-1.50	1 / 33	27.50	<b>26.00</b>	0.398	33.01	-7.01
		3840.00	-1.50	1 / 33	27.39	25.89	0.388	33.01	-7.12
	QPSK	3954.99	-1.50	1 / 99	27.42	25.92	0.391	33.01	-7.09
		3840.00	-1.50	1 / 33	26.54	25.04	0.319	33.01	-7.97
		3725.01	-1.50	1 / 66	25.48	23.98	0.250	33.01	-9.03
	16-QAM	3840.00	-1.50	1 / 66	22.56	21.06	0.128	33.01	-11.95
	64-QAM	3725.01	-1.50	1 / 66	22.56	21.06	0.128	33.01	-11.95
	256-QAM	3730.02	-1.50	1 / 81	27.50	<b>26.00</b>	0.398	33.01	-7.01
	256-QAM	3840.00	-1.50	1 / 40	27.41	25.91	0.390	33.01	-7.10
	256-QAM	3949.98	-1.50	1 / 81	27.46	25.96	0.394	33.01	-7.05
60 MHz	π/2 BPSK	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
	QPSK	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
	16-QAM	3735.00	-1.50	1 / 94	27.32	25.82	0.382	33.01	-7.19
	64-QAM	3840.00	-1.50	1 / 141	27.50	<b>26.00</b>	0.398	33.01	-7.01
	256-QAM	3945.00	-1.50	1 / 141	27.49	25.99	0.397	33.01	-7.02
	256-QAM	3735.00	-1.50	1 / 47	27.35	25.85	0.385	33.01	-7.16
	256-QAM	3840.00	-1.50	1 / 94	27.49	25.99	0.397	33.01	-7.02
70 MHz	π/2 BPSK	3945.00	-1.50	1 / 94	27.39	25.89	0.388	33.01	-7.12
		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
	QPSK	3945.00	-1.50	1 / 94	27.39	25.89	0.388	33.01	-7.12
		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
	16-QAM	3735.00	-1.50	1 / 94	25.47	23.97	0.249	33.01	-9.04
	64-QAM	3735.00	-1.50	1 / 94	25.47	23.97	0.249	33.01	-9.04
	256-QAM	3840.00	-1.50	1 / 94	22.46	20.96	0.125	33.01	-12.05
	256-QAM	3740.01	-1.50	1 / 54	27.42	25.92	0.391	33.01	-7.09
80 MHz	π/2 BPSK	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
		3740.01	-1.50	1 / 162	27.30	25.80	0.380	33.01	-7.21
	QPSK	3840.00	-1.50	1 / 162	27.50	<b>26.00</b>	0.398	33.01	-7.01
		3939.99	-1.50	1 / 54	27.49	25.99	0.397	33.01	-7.02
		3740.01	-1.50	1 / 54	26.49	24.99	0.316	33.01	-8.02
	16-QAM	3740.01	-1.50	1 / 54	25.49	23.99	0.251	33.01	-9.02
	64-QAM	3740.01	-1.50	1 / 54	22.51	21.01	0.126	33.01	-12.00
	256-QAM	3745.02	-1.50	1 / 122	27.46	25.96	0.394	33.01	-7.05
	256-QAM	3840.00	-1.50	1 / 61	27.46	25.96	0.394	33.01	-7.05
90 MHz	π/2 BPSK	3934.98	-1.50	1 / 183	27.41	25.91	0.390	33.01	-7.10
		3745.02	-1.50	1 / 183	27.17	25.67	0.369	33.01	-7.34
		3840.00	-1.50	1 / 61	27.32	25.82	0.382	33.01	-7.19
	QPSK	3934.98	-1.50	1 / 61	27.50	<b>26.00</b>	0.398	33.01	-7.01
		3745.02	-1.50	1 / 122	26.59	25.09	0.323	33.01	-7.92
		3840.00	-1.50	1 / 61	25.57	24.07	0.255	33.01	-8.94
	16-QAM	3934.98	-1.50	1 / 122	22.47	20.97	0.125	33.01	-12.04
	64-QAM	3750.00	-1.50	1 / 204	27.50	<b>26.00</b>	0.398	33.01	-7.01
	256-QAM	3840.00	-1.50	1 / 204	27.49	25.99	0.397	33.01	-7.02
	256-QAM	3930.00	-1.50	1 / 204	27.47	25.97	0.395	33.01	-7.04
100 MHz	π/2 BPSK	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
	QPSK	3840.00	-1.50	1 / 204	26.47	24.97	0.314	33.01	-8.04
		3930.00	-1.50	1 / 136	25.45	23.95	0.248	33.01	-9.06
		3750.00	-1.50	1 / 68	22.52	21.02	0.126	33.01	-11.99
	16-QAM	3840.00	-1.50	1 / 68	22.52	21.02	0.126	33.01	-11.99
	64-QAM	3750.00	-1.50	1 / 68	22.52	21.02	0.126	33.01	-11.99
	256-QAM	3840.00	-1.50	1 / 68	22.52	21.02	0.126	33.01	-11.99
	256-QAM	3750.00	-1.50	1 / 68	22.52	21.02	0.126	33.01	-11.99
	256-QAM	3930.00	-1.50	1 / 68	22.52	21.02	0.126	33.01	-11.99

Table 7-12. Antenna 4b EIRP Data (NR Band n77 (PC2) – C Band)

FCC ID: BCGA2435	
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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	-1.50	1 / 13	25.63	<b>24.13</b>	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	<b>24.20</b>	0.263	33.01	-8.81
	16-QAM	3705.00	-1.50	1 / 13	24.71	23.21	0.209	33.01	-9.80
	64-QAM	3840.00	-1.50	1 / 25	23.70	22.20	0.166	33.01	-10.81
	256-QAM	3705.00	-1.50	1 / 25	20.68	19.18	0.083	33.01	-13.83
	256-QAM	3840.00	-1.50	1 / 25	20.72	19.22	0.084	33.01	-13.79
15 MHz	π/2 BPSK	3707.51	-1.50	1 / 25	25.63	24.13	0.259	33.01	-8.88
		3840.00	-1.50	1 / 25	25.70	<b>24.20</b>	0.263	33.01	-8.81
		3972.50	-1.50	1 / 13	25.63	24.13	0.259	33.01	-8.88
	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
	64-QAM	3840.00	-1.50	1 / 25	23.63	22.13	0.163	33.01	-10.88
	256-QAM	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	<b>24.20</b>	0.263	33.01	-8.81
20 MHz	π/2 BPSK	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
		3710.01	-1.50	1 / 37	25.70	<b>24.20</b>	0.263	33.01	-8.81
	QPSK	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
		3710.01	-1.50	1 / 13	24.65	23.15	0.207	33.01	-9.86
	16-QAM	3969.99	-1.50	1 / 13	23.62	22.12	0.163	33.01	-10.89
	64-QAM	3969.99	-1.50	1 / 37	23.62	22.12	0.163	33.01	-10.89
	256-QAM	3710.01	-1.50	1 / 37	20.44	18.94	0.078	33.01	-14.07
	256-QAM	3715.02	-1.50	1 / 19	25.65	24.15	0.260	33.01	-8.86
30 MHz	π/2 BPSK	3840.00	-1.50	1 / 58	25.70	<b>24.20</b>	0.263	33.01	-8.81
		3964.98	-1.50	1 / 19	25.64	24.14	0.259	33.01	-8.87
		3715.02	-1.50	1 / 58	25.56	24.06	0.255	33.01	-8.95
	QPSK	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
		3715.02	-1.50	1 / 19	24.77	23.27	0.212	33.01	-9.74
	16-QAM	3964.98	-1.50	1 / 19	23.66	22.16	0.164	33.01	-10.85
	64-QAM	3964.98	-1.50	1 / 19	23.66	22.16	0.164	33.01	-10.85
	256-QAM	3715.02	-1.50	1 / 39	20.72	19.22	0.084	33.01	-13.79
	256-QAM	3720.00	-1.50	1 / 26	25.67	24.17	0.261	33.01	-8.84
40 MHz	π/2 BPSK	3840.00	-1.50	1 / 53	25.70	<b>24.20</b>	0.263	33.01	-8.81
		3960.00	-1.50	1 / 79	25.68	24.18	0.262	33.01	-8.83
		3720.00	-1.50	1 / 79	25.66	24.16	0.261	33.01	-8.85
	QPSK	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
		3720.00	-1.50	1 / 79	24.64	23.14	0.206	33.01	-9.87
	16-QAM	3960.00	-1.50	1 / 79	23.70	22.20	0.166	33.01	-10.81
	64-QAM	3960.00	-1.50	1 / 79	23.70	22.20	0.166	33.01	-10.81
	256-QAM	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
50 MHz	π/2 BPSK	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
		3725.01	-1.50	1 / 33	25.43	23.93	0.247	33.01	-9.08
	QPSK	3840.00	-1.50	1 / 66	25.70	<b>24.20</b>	0.263	33.01	-8.81
		3954.99	-1.50	1 / 66	25.48	23.98	0.250	33.01	-9.03
		3725.01	-1.50	1 / 33	24.71	23.21	0.209	33.01	-9.80
	16-QAM	3954.99	-1.50	1 / 33	23.58	22.08	0.161	33.01	-10.93
	64-QAM	3954.99	-1.50	1 / 66	23.58	22.08	0.161	33.01	-10.93
	256-QAM	3840.00	-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
60 MHz	π/2 BPSK	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
		3730.02	-1.50	1 / 121	25.65	24.15	0.260	33.01	-8.86
	QPSK	3840.00	-1.50	1 / 121	25.60	24.10	0.257	33.01	-8.91
		3949.98	-1.50	1 / 81	25.70	<b>24.20</b>	0.263	33.01	-8.81
		3730.02	-1.50	1 / 40	24.68	23.18	0.208	33.01	-9.83
	16-QAM	3730.02	-1.50	1 / 40	23.71	22.21	0.166	33.01	-10.80
	64-QAM	3730.02	-1.50	1 / 121	20.63	19.13	0.082	33.01	-13.88
	256-QAM	3730.02	-1.50	1 / 121	20.63	19.13	0.082	33.01	-13.88
	256-QAM	3735.00	-1.50	1 / 141	25.57	24.07	0.255	33.01	-8.94
70 MHz	π/2 BPSK	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
		3735.00	-1.50	1 / 94	25.61	24.11	0.258	33.01	-8.90
	QPSK	3840.00	-1.50	1 / 141	25.70	<b>24.20</b>	0.263	33.01	-8.81
		3945.00	-1.50	1 / 47	25.34	23.84	0.242	33.01	-9.17
		3735.00	-1.50	1 / 94	24.54	23.04	0.201	33.01	-9.97
	16-QAM	3945.00	-1.50	1 / 94	23.68	22.18	0.165	33.01	-10.83
	64-QAM	3945.00	-1.50	1 / 94	23.68	22.18	0.165	33.01	-10.83
	256-QAM	3945.00	-1.50	1 / 141	20.64	19.14	0.082	33.01	-13.87
	256-QAM	3740.01	-1.50	1 / 162	25.67	24.17	0.261	33.01	-8.84
	256-QAM	3840.00	-1.50	1 / 162	25.52	24.02	0.252	33.01	-8.99
80 MHz	π/2 BPSK	3939.99	-1.50	1 / 108	25.70	<b>24.20</b>	0.263	33.01	-8.81
		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
	QPSK	3939.99	-1.50	1 / 54	25.51	24.01	0.252	33.01	-9.00
		3840.00	-1.50	1 / 162	24.70	23.20	0.209	33.01	-9.81
		3740.01	-1.50	1 / 108	23.66	22.16	0.164	33.01	-10.85
	16-QAM	3840.00	-1.50	1 / 108	23.66	22.16	0.164	33.01	-10.85
	64-QAM	3840.00	-1.50	1 / 108	20.71	19.21	0.083	33.01	-13.80
	256-QAM	3740.01	-1.50	1 / 108	20.71	19.21	0.083	33.01	-13.80
	256-QAM	3745.02	-1.50	1 / 183	25.70	<b>24.20</b>	0.263	33.01	-8.81
	256-QAM	3840.00	-1.50	1 / 61	25.63	24.13	0.259	33.01	-8.88
90 MHz	π/2 BPSK	3934.98	-1.50	1 / 61	25.64	24.14	0.259	33.01	-8.87
		3745.02	-1.50	1 / 183	25.57	24.07	0.255	33.01	-8.94
		3840.00	-1.50	1 / 122	25.63	24.13	0.259	33.01	-8.88
	QPSK	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
		3840.00	-1.50	1 / 183	23.69	22.19	0.166	33.01	-10.82
	16-QAM	3745.02	-1.50	1 / 183	23.69	22.19	0.166	33.01	-10.82
	64-QAM	3745.02	-1.50	1 / 183	23.69	22.19	0.166	33.01	-10.82
	256-QAM	3934.98	-1.50	1 / 61	20.70	19.20	0.083	33.01	-13.81
	256-QAM	3750.00	-1.50	1 / 136	25.67	24.17	0.261	33.01	-8.84
	256-QAM	3840.00	-1.50	1 / 204	25.61	24.11	0.258	33.01	-8.90
100 MHz	π/2 BPSK	3930.00	-1.50	1 / 68	25.59	24.09	0.256	33.01	-8.92
		3750.00	-1.50	1 / 204	25.49	23.99	0.251	33.01	-9.02
		3840.00	-1.50	1 / 68	25.70	<b>24.20</b>	0.263	33.01	-8.81
	QPSK	3930.00	-1.50	1 / 204	25.63	24.13	0.259	33.01	-8.88
		3840.00	-1.50	1 / 136	24.66	23.16	0.207	33.01	-9.85
		3750.00	-1.50	1 / 204	23.58	22.08	0.161	33.01	-10.93
	16-QAM	3840.00	-1.50	1 / 68	20.52	19.02	0.080	33.01	-13.99
	64-QAM	3750.00	-1.50	1 / 204	23.58	22.08	0.161	33.01	-10.93
	256-QAM	3840.00	-1.50	1 / 68	20.52	19.02	0.080	33.01	-13.99
	256-QAM	3840.00	-1.50	1 / 68	20.52	19.02	0.080	33.01	-13.99


Table 7-13. Antenna 4b EIRP Data (NR Band n77 (PC3) – C Band)

FCC ID:
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## 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	<b>24.64</b>	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	<b>24.90</b>	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
		16-QAM	3544.98	1.40	1 / 17	22.51	0.246	33.01	-9.10
		64-QAM	3455.01	1.40	1 / 12	21.47	0.194	33.01	-10.14
		256-QAM	3500.01	1.40	1 / 6	18.51	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	<b>24.90</b>	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	16-QAM	3457.50	1.40	1 / 19	22.53	0.247	33.01	-9.08
		64-QAM	3500.01	1.40	1 / 28	21.52	0.196	33.01	-10.09
		256-QAM	3457.50	1.40	1 / 9	18.41	0.096	33.01	-13.20
		3460.02	1.40	1 / 37	23.39	24.79	0.301	33.01	-8.22
		3540.00	1.40	1 / 25	23.47	24.87	0.307	33.01	-8.14
20 MHz	π/2 BPSK	3540.00	1.40	1 / 37	23.50	<b>24.90</b>	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
		16-QAM	3460.02	1.40	1 / 25	22.50	0.245	33.01	-9.11
	QPSK	64-QAM	3500.01	1.40	1 / 25	21.45	0.193	33.01	-10.16
		256-QAM	3540.00	1.40	1 / 13	18.49	0.097	33.01	-13.12
		3465.00	1.40	1 / 19	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3500.01	1.40	1 / 19	23.43	24.83	0.304	33.01	-8.18
		3534.98	1.40	1 / 38	23.39	24.79	0.301	33.01	-8.22
30 MHz	π/2 BPSK	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
		3534.98	1.40	1 / 19	23.36	24.76	0.299	33.01	-8.25
		16-QAM	3465.00	1.40	1 / 19	22.49	0.245	33.01	-9.12
		64-QAM	3500.01	1.40	1 / 39	21.46	0.193	33.01	-10.15
	QPSK	256-QAM	3465.00	1.40	1 / 19	18.47	0.097	33.01	-13.14
		3470.01	1.40	1 / 79	23.50	<b>24.90</b>	0.309	33.01	-8.11
		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
		16-QAM	3470.01	1.40	1 / 79	23.32	0.296	33.01	-8.29
40 MHz	π/2 BPSK	3529.98	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
		16-QAM	3529.98	1.40	1 / 53	22.42	0.241	33.01	-9.19
		64-QAM	3529.98	1.40	1 / 26	21.51	0.195	33.01	-10.10
		256-QAM	3529.98	1.40	1 / 79	18.49	0.097	33.01	-13.12
	QPSK	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
		3525.00	1.40	1 / 99	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3475.02	1.40	1 / 99	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3500.01	1.40	1 / 66	23.44	24.84	0.305	33.01	-8.17
50 MHz	π/2 BPSK	3525.00	1.40	1 / 66	23.25	24.65	0.292	33.01	-8.36
		16-QAM	3525.00	1.40	1 / 99	22.44	0.242	33.01	-9.17
		64-QAM	3500.01	1.40	1 / 33	21.52	0.196	33.01	-10.09
		256-QAM	3525.00	1.40	1 / 66	18.55	0.099	33.01	-13.06
		3480.00	1.40	1 / 121	23.50	<b>24.90</b>	0.309	33.01	-8.11
	QPSK	3500.01	1.40	1 / 81	23.36	24.76	0.299	33.01	-8.25
		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
60 MHz	π/2 BPSK	16-QAM	3500.01	1.40	1 / 81	22.41	0.240	33.01	-9.20
		64-QAM	3480.00	1.40	1 / 81	21.48	0.194	33.01	-10.13
		256-QAM	3500.01	1.40	1 / 40	18.45	0.097	33.01	-13.16
		3485.01	1.40	1 / 47	23.32	24.72	0.296	33.01	-8.29
		3500.01	1.40	1 / 141	23.49	24.89	0.308	33.01	-8.12
	QPSK	3514.98	1.40	1 / 141	23.50	<b>24.90</b>	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
		3514.98	1.40	1 / 47	23.45	24.85	0.305	33.01	-8.16
		16-QAM	3485.01	1.40	1 / 141	22.53	0.247	33.01	-9.08
70 MHz	π/2 BPSK	64-QAM	3514.98	1.40	1 / 141	21.49	0.195	33.01	-10.12
		256-QAM	3485.01	1.40	1 / 47	18.49	0.097	33.01	-13.12
		3490.02	1.40	1 / 54	23.41	24.81	0.303	33.01	-8.20
		3500.01	1.40	1 / 162	23.37	24.77	0.300	33.01	-8.24
		3510.00	1.40	1 / 162	23.50	<b>24.90</b>	0.309	33.01	-8.11
	QPSK	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
		16-QAM	3490.02	1.40	1 / 162	22.46	0.243	33.01	-9.15
		64-QAM	3510.00	1.40	1 / 108	21.45	0.193	33.01	-10.16
80 MHz	π/2 BPSK	256-QAM	3510.00	1.40	1 / 54	18.51	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
		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
	QPSK	3500.01	1.40	1 / 61	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3504.99	1.40	1 / 61	23.38	24.78	0.301	33.01	-8.23
		16-QAM	3504.99	1.40	1 / 61	22.44	0.242	33.01	-9.17
		64-QAM	3504.99	1.40	1 / 122	21.49	0.195	33.01	-10.12
		256-QAM	3504.99	1.40	1 / 183	18.44	0.096	33.01	-13.17
90 MHz	π/2 BPSK	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
		3500.01	1.40	1 / 136	23.50	<b>24.90</b>	0.309	33.01	-8.11
	QPSK	3500.01	1.40	1 / 204	23.48	24.88	0.308	33.01	-8.13
		16-QAM	3500.01	1.40	1 / 204	22.47	0.244	33.01	-9.14
		64-QAM	3500.01	1.40	1 / 204	21.42	0.191	33.01	-10.19
		256-QAM	3500.01	1.40	1 / 136	18.34	0.094	33.01	-13.27
		3500.01	1.40	1 / 68	23.08	24.48	0.281	33.01	-8.53
100 MHz	π/2 BPSK	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
		3500.01	1.40	1 / 136	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3500.01	1.40	1 / 204	23.48	24.88	0.308	33.01	-8.13
	QPSK	16-QAM	3500.01	1.40	1 / 204	22.47	0.244	33.01	-9.14
		64-QAM	3500.01	1.40	1 / 204	21.42	0.191	33.01	-10.19
		256-QAM	3500.01	1.40	1 / 136	18.34	0.094	33.01	-13.27
		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

Table 7-14. Antenna 2a EIRP Data (NR Band n77 (PC2) – DoD Band)


FCC ID: BCGA2435		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	Page 180 of 203



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	<b>24.77</b>	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	<b>24.80</b>	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	19.86	0.097	33.01	-13.15
	256-QAM	3455.01	1.40	1 / 17	18.46	19.86	0.097	33.01	-13.15
15 MHz	π/2 BPSK	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
	QPSK	3457.50	1.40	1 / 9	23.50	<b>24.90</b>	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
	256-QAM	3500.01	1.40	1 / 28	18.44	19.84	0.096	33.01	-13.17
20 MHz	π/2 BPSK	3460.02	1.40	1 / 25	23.50	<b>24.90</b>	0.309	33.01	-8.11
		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
	QPSK	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	18.48	19.88	0.097	33.01	-13.13
	256-QAM	3540.00	1.40	1 / 13	18.48	19.88	0.097	33.01	-13.13
30 MHz	π/2 BPSK	3465.00	1.40	1 / 58	23.34	24.74	0.298	33.01	-8.27
		3500.01	1.40	1 / 58	23.48	24.88	0.308	33.01	-8.13
		3534.99	1.40	1 / 58	23.50	<b>24.90</b>	0.309	33.01	-8.11
	QPSK	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	18.48	19.88	0.097	33.01	-13.13
	256-QAM	3500.01	1.40	1 / 19	18.48	19.88	0.097	33.01	-13.13
40 MHz	π/2 BPSK	3470.01	1.40	1 / 26	23.22	24.62	0.290	33.01	-8.39
		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
	QPSK	3470.01	1.40	1 / 26	23.50	<b>24.90</b>	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
	256-QAM	3529.98	1.40	1 / 79	18.54	19.94	0.099	33.01	-13.07
50 MHz	π/2 BPSK	3475.02	1.40	1 / 99	23.29	24.69	0.294	33.01	-8.32
		3500.01	1.40	1 / 66	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3525.00	1.40	1 / 99	23.47	24.87	0.307	33.01	-8.14
	QPSK	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
	256-QAM	3525.00	1.40	1 / 33	18.55	19.95	0.099	33.01	-13.06
	256-QAM	3525.00	1.40	1 / 33	18.55	19.95	0.099	33.01	-13.06
60 MHz	π/2 BPSK	3480.00	1.40	1 / 81	23.49	24.89	0.308	33.01	-8.12
		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
	QPSK	3480.00	1.40	1 / 121	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3500.01	1.40	1 / 40	23.50	<b>24.90</b>	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
	256-QAM	3480.00	1.40	1 / 40	18.43	19.83	0.096	33.01	-13.18
70 MHz	π/2 BPSK	3485.01	1.40	1 / 141	23.44	24.84	0.305	33.01	-8.17
		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
	QPSK	3485.01	1.40	1 / 47	23.50	<b>24.90</b>	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
	256-QAM	3514.98	1.40	1 / 47	18.45	19.85	0.097	33.01	-13.16
	256-QAM	3514.98	1.40	1 / 47	18.45	19.85	0.097	33.01	-13.16
80 MHz	π/2 BPSK	3490.02	1.40	1 / 162	23.47	24.87	0.307	33.01	-8.14
		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
	QPSK	3490.02	1.40	1 / 162	23.50	<b>24.90</b>	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
	256-QAM	3500.01	1.40	1 / 108	18.57	19.97	0.099	33.01	-13.04
	256-QAM	3500.01	1.40	1 / 108	18.57	19.97	0.099	33.01	-13.04
90 MHz	π/2 BPSK	3495.00	1.40	1 / 183	23.46	24.86	0.306	33.01	-8.15
		3500.01	1.40	1 / 61	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3504.99	1.40	1 / 61	23.44	24.84	0.305	33.01	-8.17
	QPSK	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	0.296	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
	256-QAM	3495.00	1.40	1 / 183	18.45	19.85	0.097	33.01	-13.16
100 MHz	π/2 BPSK	3500.01	1.40	1 / 204	23.47	24.87	0.307	33.01	-8.14
		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
	QPSK	3500.01	1.40	1 / 136	23.48	24.88	0.308	33.01	-8.13
		3500.01	1.40	1 / 204	23.50	<b>24.90</b>	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
	256-QAM	3500.01	1.40	1 / 204	18.47	19.87	0.097	33.01	-13.14
	256-QAM	3500.01	1.40	1 / 204	18.47	19.87	0.097	33.01	-13.14


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	<b>24.90</b>	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
	64-QAM	3840.00	1.40	1 / 37	21.52	22.92	0.196	33.01	-10.09
	256-QAM	3705.00	1.40	1 / 13	18.47	19.87	0.097	33.01	-13.14
	256-QAM	3840.00	1.40	1 / 25	18.34	19.74	0.094	33.01	-13.27
15 MHz	π/2 BPSK	3707.51	1.40	1 / 25	23.40	24.80	0.302	33.01	-8.21
		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
	64-QAM	3972.50	1.40	1 / 37	21.52	22.92	0.196	33.01	-10.09
	256-QAM	3840.00	1.40	1 / 25	18.34	19.74	0.094	33.01	-13.27
	256-QAM	3710.01	1.40	1 / 37	23.40	24.80	0.302	33.01	-8.21
20 MHz	π/2 BPSK	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
		3710.01	1.40	1 / 25	23.48	24.88	0.308	33.01	-8.13
	QPSK	3840.00	1.40	1 / 13	23.25	24.65	0.292	33.01	-8.36
		3969.99	1.40	1 / 25	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3710.01	1.40	1 / 37	22.57	23.97	0.249	33.01	-9.04
	16-QAM	3969.99	1.40	1 / 37	22.57	23.97	0.249	33.01	-9.04
	64-QAM	3710.01	1.40	1 / 37	21.53	22.93	0.196	33.01	-10.08
	256-QAM	3969.99	1.40	1 / 37	18.53	19.93	0.098	33.01	-13.08
	256-QAM	3715.02	1.40	1 / 58	23.45	24.85	0.305	33.01	-8.16
30 MHz	π/2 BPSK	3840.00	1.40	1 / 39	23.46	24.86	0.306	33.01	-8.15
		3964.98	1.40	1 / 19	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3715.02	1.40	1 / 19	23.36	24.76	0.299	33.01	-8.25
	QPSK	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
		3715.02	1.40	1 / 58	22.33	23.73	0.236	33.01	-9.28
	16-QAM	3715.02	1.40	1 / 19	21.41	22.81	0.191	33.01	-10.20
	64-QAM	3715.02	1.40	1 / 19	21.41	22.81	0.191	33.01	-10.20
	256-QAM	3964.98	1.40	1 / 39	18.44	19.84	0.096	33.01	-13.17
	256-QAM	3720.00	1.40	1 / 79	23.46	24.86	0.306	33.01	-8.15
40 MHz	π/2 BPSK	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
		3720.00	1.40	1 / 26	23.50	<b>24.90</b>	0.309	33.01	-8.11
	QPSK	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
		3720.00	1.40	1 / 79	22.49	23.89	0.245	33.01	-9.12
	16-QAM	3960.00	1.40	1 / 53	21.51	22.91	0.195	33.01	-10.10
	64-QAM	3960.00	1.40	1 / 79	18.49	19.89	0.097	33.01	-13.12
	256-QAM	3840.00	1.40	1 / 79	18.49	19.89	0.097	33.01	-13.12
	256-QAM	3725.01	1.40	1 / 66	23.31	24.71	0.296	33.01	-8.30
50 MHz	π/2 BPSK	3840.00	1.40	1 / 33	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3954.99	1.40	1 / 66	23.40	24.80	0.302	33.01	-8.21
		3725.01	1.40	1 / 66	23.25	24.65	0.292	33.01	-8.36
	QPSK	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
		3725.01	1.40	1 / 99	22.41	23.81	0.240	33.01	-9.20
	16-QAM	3840.00	1.40	1 / 66	21.41	22.81	0.191	33.01	-10.20
	64-QAM	3840.00	1.40	1 / 66	21.41	22.81	0.191	33.01	-10.20
	256-QAM	3725.01	1.40	1 / 99	18.47	19.87	0.097	33.01	-13.14
	256-QAM	3730.02	1.40	1 / 81	23.31	24.71	0.296	33.01	-8.30
	256-QAM	3840.00	1.40	1 / 81	23.50	<b>24.90</b>	0.309	33.01	-8.11
60 MHz	π/2 BPSK	3949.98	1.40	1 / 40	23.23	24.63	0.290	33.01	-8.38
		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
	QPSK	3949.98	1.40	1 / 81	23.36	24.76	0.299	33.01	-8.25
		3730.02	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
	16-QAM	3730.02	1.40	1 / 40	18.46	19.86	0.097	33.01	-13.13
	64-QAM	3730.02	1.40	1 / 40	18.46	19.86	0.097	33.01	-13.13
	256-QAM	3735.00	1.40	1 / 47	23.21	24.61	0.289	33.01	-8.40
	256-QAM	3840.00	1.40	1 / 47	23.38	24.78	0.301	33.01	-8.23
70 MHz	π/2 BPSK	3945.00	1.40	1 / 94	23.18	24.58	0.287	33.01	-8.43
		3735.00	1.40	1 / 141	23.22	24.62	0.290	33.01	-8.39
		3840.00	1.40	1 / 47	23.50	<b>24.90</b>	0.309	33.01	-8.11
	QPSK	3945.00	1.40	1 / 47	23.35	24.75	0.299	33.01	-8.26
		3735.00	1.40	1 / 47	22.47	23.87	0.244	33.01	-9.14
		3840.00	1.40	1 / 94	21.45	22.85	0.193	33.01	-10.16
	16-QAM	3945.00	1.40	1 / 47	22.47	23.87	0.244	33.01	-9.14
	64-QAM	3945.00	1.40	1 / 94	21.45	22.85	0.193	33.01	-10.16
	256-QAM	3945.00	1.40	1 / 94	18.39	19.79	0.095	33.01	-13.22
	256-QAM	3740.01	1.40	1 / 108	23.50	<b>24.90</b>	0.309	33.01	-8.11
80 MHz	π/2 BPSK	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
		3740.01	1.40	1 / 54	23.47	24.87	0.307	33.01	-8.14
	QPSK	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
		3740.01	1.40	1 / 54	22.43	23.83	0.242	33.01	-9.18
	16-QAM	3740.01	1.40	1 / 108	21.43	22.83	0.192	33.01	-10.18
	64-QAM	3939.99	1.40	1 / 108	21.43	22.83	0.192	33.01	-10.18
	256-QAM	3740.01	1.40	1 / 108	18.52	19.92	0.098	33.01	-13.09
	256-QAM	3745.02	1.40	1 / 61	23.49	24.89	0.308	33.01	-8.12
90 MHz	π/2 BPSK	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
		3745.02	1.40	1 / 183	23.50	<b>24.90</b>	0.309	33.01	-8.11
	QPSK	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
		3745.02	1.40	1 / 61	22.59	23.99	0.251	33.01	-9.02
	16-QAM	3745.02	1.40	1 / 61	21.58	22.98	0.199	33.01	-10.03
	64-QAM	3745.02	1.40	1 / 61	21.58	22.98	0.199	33.01	-10.03
	256-QAM	3934.98	1.40	1 / 183	18.58	19.98	0.100	33.01	-13.03
	256-QAM	3750.00	1.40	1 / 204	23.29	24.69	0.294	33.01	-8.32
	256-QAM	3840.00	1.40	1 / 204	23.14	24.54	0.284	33.01	-8.47
100 MHz	π/2 BPSK	3930.00	1.40	1 / 204	23.39	24.79	0.301	33.01	-8.22
		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
	QPSK	3930.00	1.40	1 / 68	23.50	<b>24.90</b>	0.309	33.01	-8.11
		3750.00	1.40	1 / 68	22.50	23.90	0.245	33.01	-9.11
		3840.00	1.40	1 / 204	21.50	22.90	0.195	33.01	-10.11
	16-QAM	3930.00	1.40	1 / 68	22.50	23.90	0.245	33.01	-9.11
	64-QAM	3930.00	1.40	1 / 204	21.50	22.90	0.195	33.01	-10.11
	256-QAM	3750.00	1.40	1 / 68	18.49	19.89	0.097	33.01	-13.12
	256-QAM	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	 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	Page 182 of 203

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 / 25	23.42	<b>24.82</b>	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	
	QPSK	3705.00	1.40	1 / 13	23.40	24.80	0.302	33.01	-8.21	
		3840.00	1.40	1 / 25	23.42	24.82	0.303	33.01	-8.19	
		3975.00	1.40	1 / 25	23.50	<b>24.90</b>	0.309	33.01	-8.11	
	16-QAM	3840.00	1.40	1 / 13	22.46	23.86	0.243	33.01	-9.15	
		64-QAM	3975.00	1.40	1 / 37	21.49	22.89	0.195	33.01	-10.12
		256-QAM	3705.00	1.40	1 / 25	18.45	19.85	0.097	33.01	-13.16
15 MHz	π/2 BPSK	3707.51	1.40	1 / 37	23.44	24.84	0.305	33.01	-8.17	
		3840.00	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	
	QPSK	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	<b>24.90</b>	0.309	33.01	-8.11	
	16-QAM	3707.51	1.40	1 / 25	22.47	23.87	0.244	33.01	-9.14	
		64-QAM	3972.50	1.40	1 / 25	21.49	22.89	0.195	33.01	-10.12
		256-QAM	3707.51	1.40	1 / 37	18.36	19.76	0.095	33.01	-13.25
20 MHz	π/2 BPSK	3710.01	1.40	1 / 13	23.42	24.82	0.303	33.01	-8.19	
		3840.00	1.40	1 / 25	23.31	24.71	0.296	33.01	-8.30	
		3969.99	1.40	1 / 13	23.50	<b>24.90</b>	0.309	33.01	-8.11	
	QPSK	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	
	16-QAM	3710.01	1.40	1 / 25	22.53	23.93	0.247	33.01	-9.08	
		64-QAM	3840.00	1.40	1 / 13	21.54	22.94	0.197	33.01	-10.07
		256-QAM	3710.01	1.40	1 / 37	18.52	19.92	0.098	33.01	-13.09
30 MHz	π/2 BPSK	3715.02	1.40	1 / 58	23.35	24.75	0.299	33.01	-8.26	
		3840.00	1.40	1 / 19	23.50	<b>24.90</b>	0.309	33.01	-8.11	
		3964.98	1.40	1 / 19	23.16	24.56	0.286	33.01	-8.45	
	QPSK	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	<b>24.90</b>	0.309	33.01	-8.11	
	16-QAM	3840.00	1.40	1 / 19	22.46	23.86	0.243	33.01	-9.15	
		64-QAM	3840.00	1.40	1 / 19	21.43	22.83	0.192	33.01	-10.18
		256-QAM	3715.02	1.40	1 / 19	18.50	19.90	0.098	33.01	-13.11
40 MHz	π/2 BPSK	3720.00	1.40	1 / 79	23.50	<b>24.90</b>	0.309	33.01	-8.11	
		3840.00	1.40	1 / 79	23.43	24.83	0.304	33.01	-8.18	
		3960.00	1.40	1 / 79	23.23	24.63	0.290	33.01	-8.38	
	QPSK	3720.00	1.40	1 / 53	23.46	24.86	0.306	33.01	-8.15	
		3840.00	1.40	1 / 79	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	
	16-QAM	3840.00	1.40	1 / 53	22.50	23.90	0.245	33.01	-9.11	
		64-QAM	3840.00	1.40	1 / 53	21.39	22.79	0.190	33.01	-10.22
		256-QAM	3960.00	1.40	1 / 26	18.48	19.88	0.097	33.01	-13.13
50 MHz	π/2 BPSK	3725.01	1.40	1 / 99	23.21	24.61	0.289	33.01	-8.40	
		3840.00	1.40	1 / 66	23.43	24.83	0.304	33.01	-8.18	
		3954.99	1.40	1 / 99	23.49	24.89	0.308	33.01	-8.12	
	QPSK	3725.01	1.40	1 / 33	23.26	24.66	0.292	33.01	-8.35	
		3840.00	1.40	1 / 99	23.50	<b>24.90</b>	0.309	33.01	-8.11	
		3954.99	1.40	1 / 66	23.39	24.79	0.301	33.01	-8.22	
	16-QAM	3840.00	1.40	1 / 66	22.29	23.69	0.234	33.01	-9.32	
		64-QAM	3840.00	1.40	1 / 99	21.42	22.82	0.191	33.01	-10.19
		256-QAM	3954.99	1.40	1 / 66	18.46	19.86	0.097	33.01	-13.15
60 MHz	π/2 BPSK	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	
		3949.98	1.40	1 / 40	23.16	24.56	0.286	33.01	-8.45	
	QPSK	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	<b>24.90</b>	0.309	33.01	-8.11	
	16-QAM	3840.00	1.40	1 / 121	22.47	23.87	0.244	33.01	-9.14	
		64-QAM	3840.00	1.40	1 / 81	21.48	22.88	0.194	33.01	-10.13
		256-QAM	3840.00	1.40	1 / 121	18.49	19.89	0.097	33.01	-13.12
70 MHz	π/2 BPSK	3735.00	1.40	1 / 47	23.46	24.86	0.306	33.01	-8.15	
		3840.00	1.40	1 / 94	23.50	<b>24.90</b>	0.309	33.01	-8.11	
		3945.00	1.40	1 / 141	23.25	24.65	0.292	33.01	-8.36	
	QPSK	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 / 47	23.39	24.79	0.301	33.01	-8.22	
	16-QAM	3735.00	1.40	1 / 47	22.46	23.86	0.243	33.01	-9.15	
		64-QAM	3735.00	1.40	1 / 141	21.51	22.91	0.195	33.01	-10.10
		256-QAM	3840.00	1.40	1 / 94	18.51	19.91	0.098	33.01	-13.10
80 MHz	π/2 BPSK	3740.01	1.40	1 / 108	23.50	<b>24.90</b>	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	
	QPSK	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	
		3939.99	1.40	1 / 162	23.48	24.88	0.308	33.01	-8.13	
	16-QAM	3840.00	1.40	1 / 54	22.43	23.83	0.242	33.01	-9.18	
		64-QAM	3939.99	1.40	1 / 54	21.51	22.91	0.195	33.01	-10.10
		256-QAM	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 / 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	
	QPSK	3745.02	1.40	1 / 122	23.49	24.89	0.308	33.01	-8.12	
		3840.00	1.40	1 / 122	23.50	<b>24.90</b>	0.309	33.01	-8.11	
		3934.98	1.40	1 / 122	23.31	24.71	0.296	33.01	-8.30	
	16-QAM	3934.98	1.40	1 / 122	22.50	23.90	0.245	33.01	-9.11	
		64-QAM	3840.00	1.40	1 / 61	21.47	22.87	0.194	33.01	-10.14
		256-QAM	3745.02	1.40	1 / 183	18.47	19.87	0.097	33.01	-13.14
100 MHz	π/2 BPSK	3750.00	1.40	1 / 68	23.45	24.85	0.305	33.01	-8.16	
		3840.00	1.40	1 / 136	23.43	24.83	0.304	33.01	-8.16	
		3930.00	1.40	1 / 204	23.33	24.73	0.297	33.01	-8.26	
	QPSK	3750.00	1.40	1 / 136	23.50	<b>24.90</b>	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 / 136	23.49	24.89	0.308	33.01	-8.12	
	16-QAM	3930.00	1.40	1 / 68	22.50	23.90	0.245	33.01	-9.11	
		64-QAM	3840.00	1.40	1 / 136	21.50	22.90	0.195	33.01	-10.11
		256-QAM	3930.00	1.40	1 / 204	18.50	19.90	0.098	33.01	-13.11

Table 7-17. Antenna 2a 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

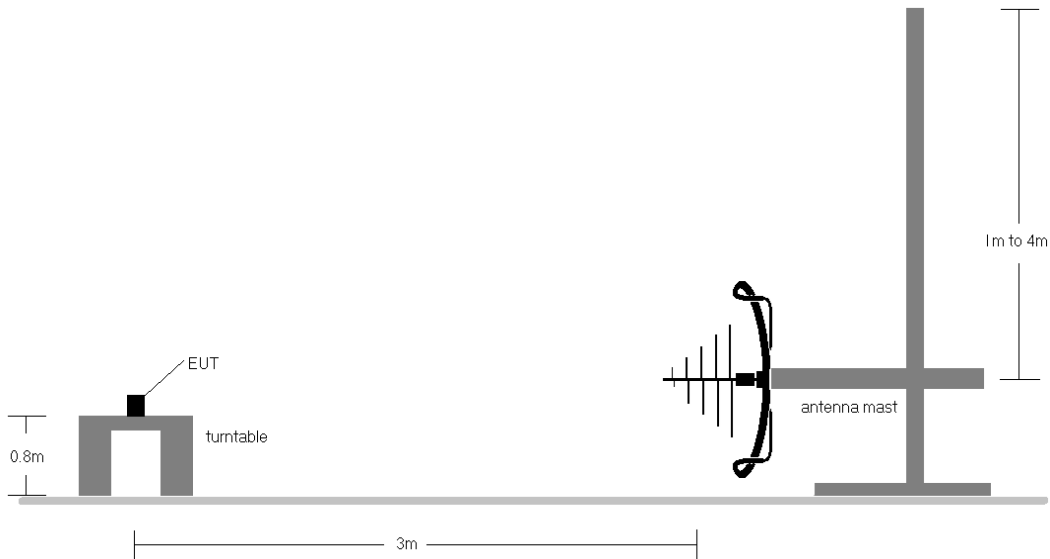
1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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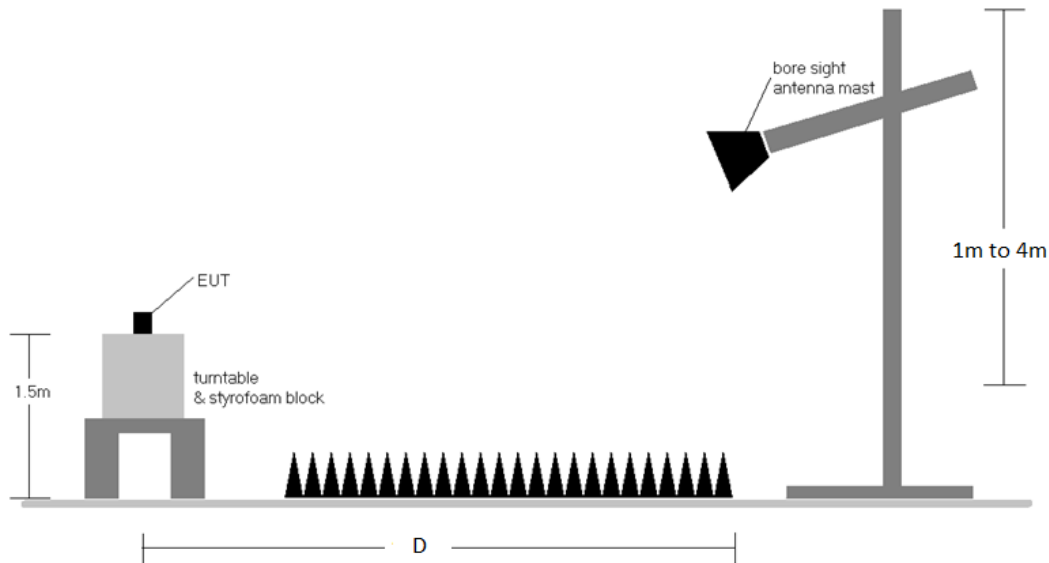
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**Test Setup**


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.  $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b.  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$ ; 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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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 [dBμV/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 [dBμV/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 [dBμV/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

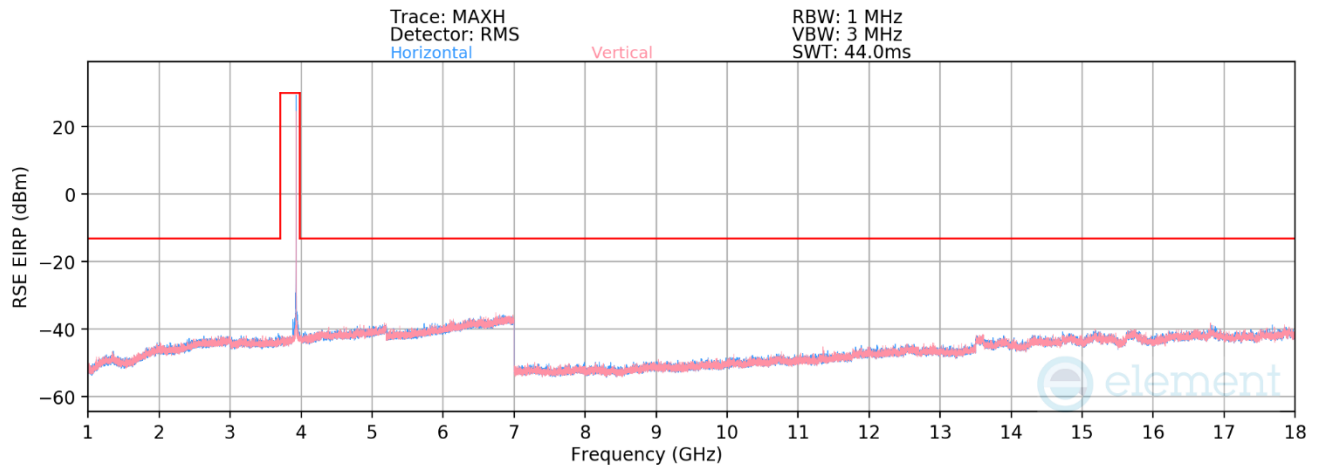
**Table 7-20. Antenna 3 Radiated Spurious Data (NR Band n77 DoD Band – High Channel)**

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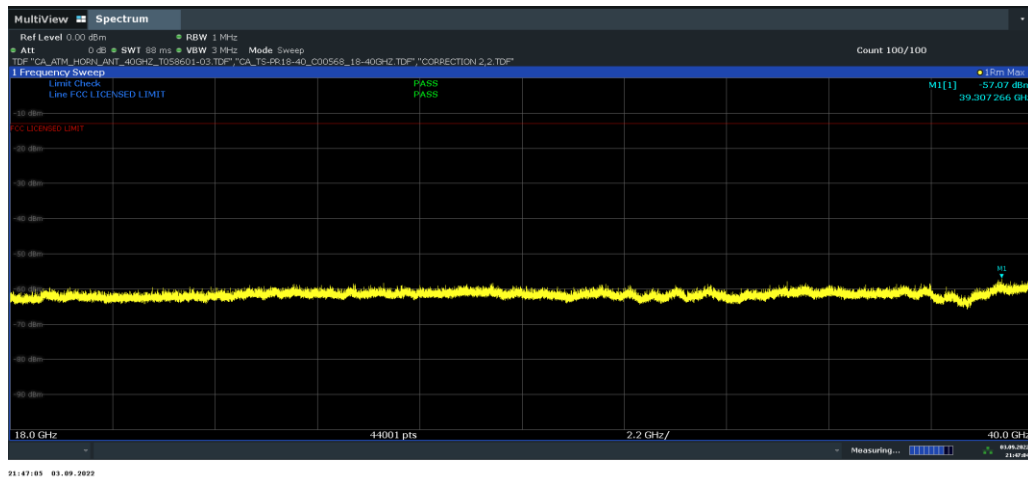
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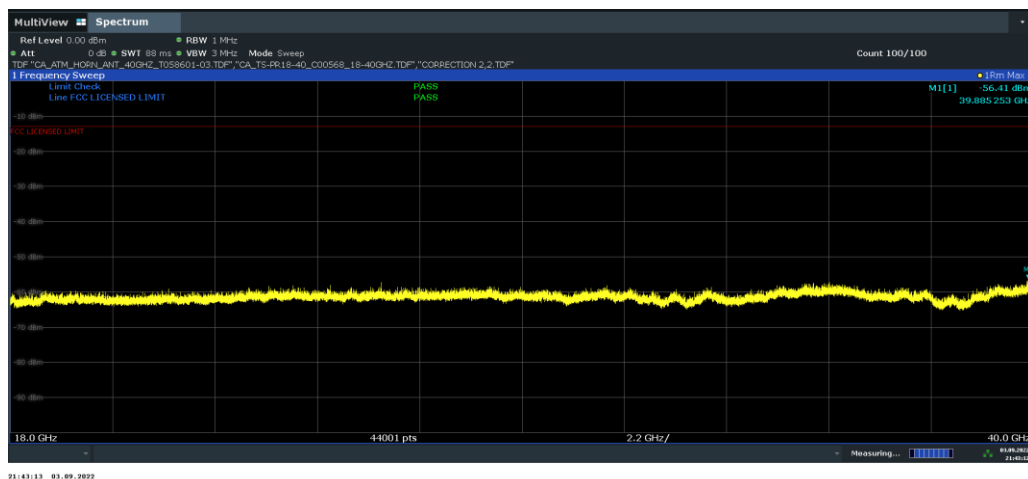
## NR Band n77 C Band



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 [dBμV/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 [dBμV/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 [dBμV/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)**

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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 [dBμV/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 [dBμV/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 [dBμV/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)**

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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/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 [dBμV/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 [dBμV/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)**

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## 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 [dBμV/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 [dBμV/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 [dBμV/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)

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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/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 [dBμV/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 [dBμV/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	 <b>PART 27 MEASUREMENT REPORT</b>		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 [dBμV/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 [dBμV/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 [dBμV/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 [dBμV/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 [dBμV/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 [dBμV/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:

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

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

### Test Procedure Used

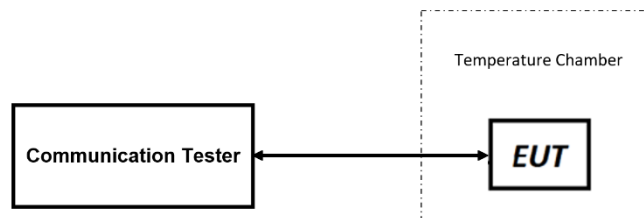
ANSI C63.26-2015

TIA-603-E-2016

### Test Settings

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


### Test Setup



**Figure 7-8. Test Instrument & Measurement Setup**

### Test Notes

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


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## Frequency Stability / Temperature Variation

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	-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	-453	-0.00001368


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**

<b>FCC ID:</b> BCGA2435	 <b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> 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**

<b>FCC ID:</b> BCGA2435	 <b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1C2205090025-05.BCG	<b>Test Dates:</b> 6/7/2022 - 9/1/2022	<b>EUT Type:</b> Tablet Device	Page 203 of 203

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