

A) APPENDIX A: SAR TEST RESULTS FOR P_{LIMIT} CALCULATIONS

FCC ID: BCGA2589	PART 0 SAR CHAR REPORT	Approved by: Technical Manager
Document S/N: 1C2305300033-03.BCG	DUT Type: Tablet Device	APPENDIX A: Page 1 of 3

REV 1.1
04/08/2022

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

Table A-1
DSI = 1 Plimit Calculations - NR Band n48 Ant 1b

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plim#	Overall Plimit
MHz	Ch.														(W/kg)		
3570.00	638000	Low	NR Band n48	40	12.92	0.00	0	Ant 1b	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.674	13.66
3624.99	641666	Mid	NR Band n48	40	12.75	-0.01	0	Ant 1b	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.665	13.55
3679.98	645332	High	NR Band n48	40	12.70	-0.04	0	Ant 1b	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.612	13.86
3570.00	638000	Low	NR Band n48	40	12.85	0.09	0	Ant 1b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.684	13.53
3624.99	641666	Mid	NR Band n48	40	12.88	0.03	0	Ant 1b	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.641	13.64
3679.98	645332	High	NR Band n48	40	12.45	0.14	0	Ant 1b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.602	13.68
3570.00	638000	Low	NR Band n48	40	12.75	0.04	0	Ant 1b	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.728	13.16
3570.00	638000	Low	NR Band n48	40	12.92	0.05	0	Ant 1b	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.000	41.95
3570.00	638000	Low	NR Band n48	40	12.85	0.03	0	Ant 1b	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.000	41.88
3570.00	638000	Low	NR Band n48	40	12.92	-0.04	0	Ant 1b	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.743	13.24
3624.99	641666	Mid	NR Band n48	40	12.75	0.00	0	Ant 1b	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.686	13.42
3679.98	645332	High	NR Band n48	40	12.70	-0.01	0	Ant 1b	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.687	13.36
3570.00	638000	Low	NR Band n48	40	12.85	-0.06	0	Ant 1b	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.714	13.34
3624.99	641666	Mid	NR Band n48	40	12.68	0.02	0	Ant 1b	DFT-S-OFDM	QPSK	50	28	0 mm	bottom	1:1	0.601	13.92
3679.98	645332	High	NR Band n48	40	12.45	-0.02	0	Ant 1b	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.637	13.44
3570.00	638000	Low	NR Band n48	40	12.75	0.03	0	Ant 1b	DFT-S-OFDM	QPSK	100	0	0 mm	bottom	1:1	0.742	13.08
3570.00	638000	Low	NR Band n48	40	12.90	-0.05	0	Ant 1b	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.791	12.95
3570.00	638000	Low	NR Band n48	40	12.92	0.07	0	Ant 1b	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.004	35.93
3570.00	638000	Low	NR Band n48	40	12.85	0.03	0	Ant 1b	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.006	34.10
3570.00	638000	Low	NR Band n48	40	12.92	-0.08	0	Ant 1b	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.015	30.19
3570.00	638000	Low	NR Band n48	40	12.85	0.01	0	Ant 1b	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.012	31.09
ANSI / IEEE C62.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

12.95

Table A-2
DSI = 1 Plimit Calculations - NR Band n48 Ant 2b

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna State	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plim#	Overall Plimit
MHz	Ch.														(W/kg)		
3570.00	638000	Low	NR Band n48	40	13.00	-0.02	0	Ant 2b	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.558	14.56
3624.99	641666	Mid	NR Band n48	40	12.72	0.05	0	Ant 2b	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.503	14.74
3679.98	645332	High	NR Band n48	40	12.92	-0.01	0	Ant 2b	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.553	14.52
3570.00	638000	Low	NR Band n48	40	12.94	0.08	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.541	14.64
3624.99	641666	Mid	NR Band n48	40	12.70	0.04	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.490	14.83
3679.98	645332	High	NR Band n48	40	12.83	0.02	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.594	14.12
3570.00	638000	Low	NR Band n48	40	12.90	0.03	0	Ant 2b	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.575	14.33
3570.00	638000	Low	NR Band n48	40	13.00	0.03	0	Ant 2b	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.001	42.03
3570.00	638000	Low	NR Band n48	40	12.94	-0.05	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.000	41.87
3570.00	638000	Low	NR Band n48	40	13.00	0.02	0	Ant 2b	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.604	14.22
3624.99	641666	Mid	NR Band n48	40	12.72	-0.04	0	Ant 2b	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.593	14.02
3679.98	645332	High	NR Band n48	40	12.92	0.07	0	Ant 2b	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.632	13.94
3570.00	638000	Low	NR Band n48	40	12.94	-0.01	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.609	14.12
3624.99	641666	Mid	NR Band n48	40	12.70	-0.06	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.578	14.11
3679.98	645332	High	NR Band n48	40	12.83	-0.04	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.662	13.65
3570.00	638000	Low	NR Band n48	40	12.90	0.05	0	Ant 2b	DFT-S-OFDM	QPSK	100	0	0 mm	bottom	1:1	0.629	13.94
3570.00	638000	Low	NR Band n48	40	12.80	-0.15	0	Ant 2b	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.669	13.58
3570.00	638000	Low	NR Band n48	40	13.00	0.02	0	Ant 2b	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.004	36.01
3570.00	638000	Low	NR Band n48	40	12.94	-0.05	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.003	37.20
3570.00	638000	Low	NR Band n48	40	13.00	0.09	0	Ant 2b	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.000	42.03
3570.00	638000	Low	NR Band n48	40	12.94	0.08	0	Ant 2b	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.000	41.97
ANSI / IEEE C62.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

13.58

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Table A-3

DSI = 1 Plimit Calculations - NR Band n48 Ant 3b

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Power Dn [dB]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Plimit	Overall Plimit
MHz	Ch.																
3570.00	638000	Low	NR Band n48	40	14.72	0.07	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.738	15.07
3624.99	641666	Mid	NR Band n48	40	14.52	-0.08	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.709	15.04
3679.98	645332	High	NR Band n48	40	14.57	-0.01	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.675	15.31
3570.00	638000	Low	NR Band n48	40	14.77	0.01	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.761	14.99
3624.99	641666	Mid	NR Band n48	40	14.44	-0.03	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.670	15.21
3679.98	645332	High	NR Band n48	40	14.58	0.00	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.667	15.37
3570.00	638000	Low	NR Band n48	40	14.67	0.05	0	Ant 3b	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.774	14.81
3570.00	638000	Low	NR Band n48	40	14.72	0.03	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.777	14.85
3624.99	641666	Mid	NR Band n48	40	14.52	0.00	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.755	14.77
3679.98	645332	High	NR Band n48	40	14.57	0.07	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.795	14.60
3570.00	638000	Low	NR Band n48	40	14.77	0.01	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.743	15.09
3624.99	641666	Mid	NR Band n48	40	14.44	-0.01	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.708	14.97
3679.98	645332	High	NR Band n48	40	14.58	-0.03	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.778	14.70
3570.00	638000	Low	NR Band n48	40	14.67	0.04	0	Ant 3b	DFT-S-OFDM	QPSK	100	0	0 mm	top	1:1	0.770	14.84
3624.99	641666	Mid	NR Band n48	40	14.71	-0.01	0	Ant 3b	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.749	15.00
3570.00	638000	Low	NR Band n48	40	14.72	-0.09	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.000	43.75
3570.00	638000	Low	NR Band n48	40	14.77	0.00	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.000	43.80
3570.00	638000	Low	NR Band n48	40	14.72	0.10	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.098	23.84
3570.00	638000	Low	NR Band n48	40	14.77	0.02	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.097	23.93
3570.00	638000	Low	NR Band n48	40	14.72	-0.08	0	Ant 3b	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.018	31.20
3570.00	638000	Low	NR Band n48	40	14.77	-0.03	0	Ant 3b	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.018	31.25
ANSI / IEEE CS61.1992 - SAFETY LIMIT Spatial Peak							Body										
Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) averaged over 1 gram										

14.60

Table A-4

DSI = 1 Plimit Calculations - NR Band n48 Ant 4

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Power Dn [dB]	MPR [dB]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Plimit	Overall Plimit
MHz	Ch.																
3570.00	638000	Low	NR Band n48	40	12.32	0.01	0	Ant 4	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.730	12.72
3624.99	641666	Mid	NR Band n48	40	12.30	-0.07	0	Ant 4	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.794	12.33
3679.98	645332	High	NR Band n48	40	12.33	0.00	0	Ant 4	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.807	12.29
3570.00	638000	Low	NR Band n48	40	12.17	0.01	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.704	12.73
3624.99	641666	Mid	NR Band n48	40	12.17	-0.02	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.862	11.85
3679.98	645332	High	NR Band n48	40	12.18	0.02	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.814	12.10
3570.00	638000	Low	NR Band n48	40	12.15	0.01	0	Ant 4	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.761	12.37
3570.00	638000	Low	NR Band n48	40	12.15	-0.08	0	Ant 4	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.719	12.61
3679.98	645332	High	NR Band n48	40	12.33	-0.10	0	Ant 4	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.238	17.60
3679.98	645332	High	NR Band n48	40	12.18	0.04	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.240	17.41
3679.98	645332	High	NR Band n48	40	12.33	-0.02	0	Ant 4	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.004	35.34
3679.98	645332	High	NR Band n48	40	12.18	-0.07	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.006	33.43
3679.98	645332	High	NR Band n48	40	12.33	0.00	0	Ant 4	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.000	41.36
3679.98	645332	High	NR Band n48	40	12.16	0.00	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.000	41.21
3679.98	645332	High	NR Band n48	40	12.33	0.05	0	Ant 4	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.512	14.27
3570.00	638000	Low	NR Band n48	40	12.17	-0.01	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.469	14.49
3624.99	641666	Mid	NR Band n48	40	12.17	-0.01	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.475	14.43
3679.98	645332	High	NR Band n48	40	12.18	0.01	0	Ant 4	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.524	14.02
3570.00	638000	Low	NR Band n48	40	12.15	-0.07	0	Ant 4	DFT-S-OFDM	QPSK	100	0	0 mm	left	1:1	0.449	14.66
ANSI / IEEE CS61.1992 - SAFETY LIMIT Spatial Peak							Body										
Uncontrolled Exposure/General Population							1.6 W/kg (mW/g) averaged over 1 gram										

11.85

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