

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

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

Table A-1
DSI = 1 P_{limit} Calculations – NR Band n48 Antenna 1a

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	P _{limit}	Overall P _{limit}
MHz	Ch.													(W/kg)		
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	1	1	10.01	0	1:1	0.365	13.42
3679.98	645332	High	back	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	50	28	9.70	0	1:1	0.486	11.86
3570.00	638000	Low	top	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	1	1	10.01	0	1:1	0.008	30.01
3679.98	645332	High	top	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	50	28	9.70	0	1:1	0.007	30.28
3570.00	638000	Low	bottom	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	1	1	10.01	0	1:1	0.147	17.37
3679.98	645332	High	bottom	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	50	28	9.70	0	1:1	0.179	16.20
3570.00	638000	Low	right	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	1	1	10.01	0	1:1	0.004	33.02
3679.98	645332	High	right	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	50	28	9.70	0	1:1	0.000	38.73
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	1	1	10.01	0	1:1	0.477	12.26
3624.99	641666	Mid	left	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	1	1	9.75	0	1:1	0.562	11.28
3679.98	645332	High	left	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	1	1	9.81	0	1:1	0.673	10.56
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	50	56	9.62	0	1:1	0.513	11.55
3624.99	641666	Mid	left	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	50	56	9.52	0	1:1	0.610	10.70
3679.98	645332	High	left	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	50	28	9.70	0	1:1	0.650	10.60
3679.98	645332	High	left	0 mm	NR Band n48	Ant 1a	40	DFT-S-OFDM	QPSK	100	0	9.69	0	1:1	0.659	10.53
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 1a	40	CP-OFDM	QPSK	1	1	9.86	0	1:1	0.510	11.82
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table A-2
DSI = 1 P_{limit} Calculations – NR Band n48 Antenna 2a

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	P _{limit}	Overall P _{limit}
MHz	Ch.													(W/kg)		
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.65	0	1:1	0.610	9.83
3624.99	641666	Mid	back	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.52	0	1:1	0.662	9.34
3679.98	645332	High	back	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.53	0	1:1	0.633	9.55
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	56	8.32	0	1:1	0.646	9.25
3624.99	641666	Mid	back	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	0	8.24	0	1:1	0.652	9.13
3679.98	645332	High	back	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	0	8.40	0	1:1	0.565	9.91
3679.98	645332	High	back	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	100	0	8.38	0	1:1	0.554	9.98
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 2a	40	CP-OFDM	QPSK	1	1	8.55	0	1:1	0.639	9.53
3570.00	638000	Low	top	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.65	0	1:1	0.006	29.90
3679.98	645332	High	top	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	0	8.40	0	1:1	0.006	29.65
3570.00	638000	Low	bottom	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.65	0	1:1	0.224	14.18
3679.98	645332	High	bottom	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	0	8.40	0	1:1	0.225	13.91
3570.00	638000	Low	right	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.65	0	1:1	0.619	9.76
3624.99	641666	Mid	right	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.52	0	1:1	0.613	9.68
3679.98	645332	High	right	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.53	0	1:1	0.592	9.84
3570.00	638000	Low	right	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	56	8.32	0	1:1	0.620	9.43
3624.99	641666	Mid	right	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	0	8.24	0	1:1	0.605	9.45
3679.98	645332	High	right	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	0	8.40	0	1:1	0.563	9.93
3679.98	645332	High	right	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	100	0	8.38	0	1:1	0.560	9.93
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	1	1	8.65	0	1:1	0.000	37.68
3679.98	645332	High	left	0 mm	NR Band n48	Ant 2a	40	DFT-S-OFDM	QPSK	50	0	8.40	0	1:1	0.000	37.43
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

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Table A-3

DSI = 1 P_{limit} Calculations - NR Band n48 Antenna 3b

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	P _{limit}	Overall P _{limit}
MHz	Ch.													(W/kg)		
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	104	12.67	0.00	1:1	0.678	14.36
3624.99	641666	Mid	back	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	1	12.55	0.00	1:1	0.639	14.50
3679.98	645332	High	back	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	1	12.44	0.00	1:1	0.579	14.81
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	56	12.65	0.00	1:1	0.639	14.60
3624.99	641666	Mid	back	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	56	12.43	0.00	1:1	0.575	14.83
3679.98	645332	High	back	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	0	12.34	0.00	1:1	0.551	14.93
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	100	0	12.59	0.00	1:1	0.663	14.37
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 3b	40	CP-OFDM	QPSK	1	1	12.52	0.00	1:1	0.721	13.94
3570.00	638000	Low	top	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	104	12.67	0.00	1:1	0.491	15.76
3624.99	641666	Mid	top	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	1	12.55	0.00	1:1	0.454	15.98
3679.98	645332	High	top	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	1	12.44	0.00	1:1	0.445	15.96
3570.00	638000	Low	top	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	56	12.65	0.00	1:1	0.515	15.53
3624.99	641666	Mid	top	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	56	12.43	0.00	1:1	0.434	16.05
3679.98	645332	High	top	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	0	12.34	0.00	1:1	0.470	15.62
3570.00	638000	Low	top	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	100	0	12.59	0.00	1:1	0.534	15.31
3570.00	638000	Low	bottom	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	104	12.67	0.00	1:1	0.000	52.67
3570.00	638000	Low	bottom	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	56	12.65	0.00	1:1	0.000	52.65
3570.00	638000	Low	right	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	104	12.67	0.00	1:1	0.085	23.38
3570.00	638000	Low	right	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	56	12.65	0.00	1:1	0.087	23.25
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	1	104	12.67	0.00	1:1	0.017	30.37
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 3b	40	DFT-S-OFDM	QPSK	50	56	12.65	0.00	1:1	0.016	30.61
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table A-4

DSI = 1 P_{limit} Calculations - NR Band n48 Antenna 4

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Duty Cycle	SAR (1g)	P _{limit}	Overall P _{limit}
MHz	Ch.													(W/kg)		
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.99	0.00	1:1	0.735	11.33
3624.99	641666	Mid	back	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.78	0.00	1:1	0.672	11.51
3679.98	645332	High	back	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.64	0.00	1:1	0.636	11.61
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	56	9.76	0.00	1:1	0.718	11.20
3624.99	641666	Mid	back	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	0	9.50	0.00	1:1	0.634	11.48
3679.98	645332	High	back	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	56	9.75	0.00	1:1	0.641	11.68
3570.00	638000	Low	back	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	100	0	9.55	0.00	1:1	0.730	10.92
3570.00	638000	Low	top	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.99	0.00	1:1	0.301	15.20
3570.00	638000	Low	top	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	56	9.76	0.00	1:1	0.256	15.68
3570.00	638000	Low	bottom	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.99	0.00	1:1	0.018	27.44
3570.00	638000	Low	bottom	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	56	9.76	0.00	1:1	0.015	28.00
3570.00	638000	Low	right	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.99	0.00	1:1	0.000	49.99
3570.00	638000	Low	right	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	56	9.76	0.00	1:1	0.002	36.75
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.99	0.00	1:1	0.664	11.77
3624.99	641666	Mid	left	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.78	0.00	1:1	0.648	11.66
3679.98	645332	High	left	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	1	1	9.64	0.00	1:1	0.728	11.02
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	56	9.76	0.00	1:1	0.653	11.61
3624.99	641666	Mid	left	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	0	9.50	0.00	1:1	0.655	11.34
3679.98	645332	High	left	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	50	56	9.75	0.00	1:1	0.778	10.84
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 4	40	DFT-S-OFDM	QPSK	100	0	9.55	0.00	1:1	0.653	11.40
3570.00	638000	Low	left	0 mm	NR Band n48	Ant 4	40	CP-OFDM	QPSK	1	1	10.06	0.00	1:1	0.674	11.77
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram						

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