

APPENDIX A: SAR TEST RESULTS FOR P_{Limit} CALCULATIONS

Table A-1
DSI = 2 P_{Limit} Calculations – n48 Head SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
3570.00	638000	Low	NR Band n48	40	13.91	G	Right	Cheek	DFT-S-OFDM	QPSK	1	104	1:1	0.725	15.31	14.75
3624.99	641666	Mid	NR Band n48	40	13.92	G	Right	Cheek	DFT-S-OFDM	QPSK	1	1	1:1	0.729	15.29	
3679.98	645332	High	NR Band n48	40	13.68	G	Right	Cheek	DFT-S-OFDM	QPSK	1	1	1:1	0.781	14.75	
3570.00	638000	Low	NR Band n48	40	13.77	G	Right	Cheek	DFT-S-OFDM	QPSK	50	56	1:1	0.715	15.23	
3624.99	641666	Mid	NR Band n48	40	13.78	G	Right	Cheek	DFT-S-OFDM	QPSK	50	0	1:1	0.732	15.13	
3679.98	645332	High	NR Band n48	40	13.64	G	Right	Cheek	DFT-S-OFDM	QPSK	50	0	1:1	0.772	14.76	
3624.99	641666	Mid	NR Band n48	40	13.67	G	Right	Cheek	DFT-S-OFDM	QPSK	100	0	1:1	0.730	15.04	
3624.99	641666	Mid	NR Band n48	40	13.91	G	Right	Cheek	CP-OFDM	QPSK	1	1	1:1	0.757	15.12	
3624.99	641666	Mid	NR Band n48	40	13.92	G	Right	Tilt	DFT-S-OFDM	QPSK	1	1	1:1	0.298	19.18	
3624.99	641666	Mid	NR Band n48	40	13.78	G	Right	Tilt	DFT-S-OFDM	QPSK	50	0	1:1	0.300	19.01	
3624.99	641666	Mid	NR Band n48	40	13.92	G	Left	Cheek	DFT-S-OFDM	QPSK	1	1	1:1	0.091	24.33	
3624.99	641666	Mid	NR Band n48	40	13.78	G	Left	Cheek	DFT-S-OFDM	QPSK	50	0	1:1	0.093	24.10	
3624.99	641666	Mid	NR Band n48	40	13.92	G	Left	Tilt	DFT-S-OFDM	QPSK	1	1	1:1	0.109	23.55	
3624.99	641666	Mid	NR Band n48	40	13.78	G	Left	Tilt	DFT-S-OFDM	QPSK	50	0	1:1	0.109	23.41	

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

Table A-2
DSI = 0 P_{Limit} Calculations – n48 Body-Worn SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)														
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	15 mm	back	1:1	0.105	25.79	25.49
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	15 mm	back	1:1	0.105	25.49	
3679.98	645332	High	NR Band n48	40	15.67	G	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.101	25.63	

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




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Table A-3
DSI = 3 P_{Limit} Calculations – n48 Hotspot SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	10 mm	back	1:1	0.193	23.14	20.26
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	10 mm	back	1:1	0.186	23.00	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	10 mm	front	1:1	0.104	25.83	
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	10 mm	front	1:1	0.100	25.70	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	10 mm	top	1:1	0.111	25.55	
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	10 mm	top	1:1	0.104	25.53	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	10 mm	left	1:1	0.340	20.69	
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	10 mm	left	1:1	0.350	20.26	
3679.98	645332	High	NR Band n48	40	15.67	G	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.342	20.33	

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

Table A-4
DSI = 0 P_{Limit} Calculations – n48 Phablet SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.927	20.31	16.00
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.913	20.07	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	front	1:1	1.930	17.12	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.596	22.23	
3570.00	638000	Low	NR Band n48	40	15.67	G	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	2.250	16.13	
3624.99	641666	Mid	NR Band n48	40	15.61	G	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	2.200	16.17	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	2.080	16.80	
3570.00	638000	Low	NR Band n48	40	15.62	G	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	2.290	16.00	
3624.99	641666	Mid	NR Band n48	40	15.47	G	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	2.170	16.08	
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	2.130	16.40	
3679.98	645332	High	NR Band n48	40	15.60	G	DFT-S-OFDM	QPSK	100	0	0 mm	left	1:1	2.080	16.40	
3679.98	645332	High	NR Band n48	40	15.67	G	CP-OFDM	QPSK	1	1	0 mm	left	1:1	2.170	16.28	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.







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Table A-5
DSI = 1 P_{Limit} Calculations – n48 Phablet SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Plimit	Overall Plimit
MHz	Ch.													(W/kg)		
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.927	20.31	16.00
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.913	20.07	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	front	1:1	1.930	17.12	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.586	22.23	
3570.00	638000	Low	NR Band n48	40	15.67	G	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	2.250	16.13	
3624.99	641666	Mid	NR Band n48	40	15.61	G	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	2.200	16.17	
3679.98	645332	High	NR Band n48	40	16.00	G	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	2.080	16.80	
3570.00	638000	Low	NR Band n48	40	15.62	G	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	2.290	16.00	
3624.99	641666	Mid	NR Band n48	40	15.47	G	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	2.170	16.08	
3679.98	645332	High	NR Band n48	40	15.70	G	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	2.130	16.40	
3679.98	645332	High	NR Band n48	40	15.60	G	DFT-S-OFDM	QPSK	100	0	0 mm	left	1:1	2.080	16.40	
3679.98	645332	High	NR Band n48	40	15.67	G	CP-OFDM	QPSK	1	1	0 mm	left	1:1	2.170	16.28	

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.
Data highlighted in blue was tested and provided by the manufacturer.

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