

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

**Table A-1**  
**DSI = 3 or DSI = 4  $P_{Limit}$  Calculations – 5G Head SAR**

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	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	Closed	18.69	E	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	1:1	0.177	26.21	24.68
3570.00	638000	Low	NR Band n48	40	Closed	18.62	E	0	Right	Cheek	DFT-S-OFDM	QPSK	50	0	1:1	0.179	26.09	
3570.00	638000	Low	NR Band n48	40	Closed	18.69	E	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	1:1	0.182	26.09	
3570.00	638000	Low	NR Band n48	40	Closed	18.62	E	0	Right	Tilt	DFT-S-OFDM	QPSK	50	0	1:1	0.182	26.02	
3570.00	638000	Low	NR Band n48	40	Closed	18.69	E	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	1:1	0.196	25.77	
3570.00	638000	Low	NR Band n48	40	Closed	18.62	E	0	Left	Cheek	DFT-S-OFDM	QPSK	50	0	1:1	0.189	25.86	
3570.00	638000	Low	NR Band n48	40	Closed	18.69	E	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	1:1	0.244	24.82	
3570.00	638000	Low	NR Band n48	40	Closed	18.62	E	0	Left	Tilt	DFT-S-OFDM	QPSK	50	0	1:1	0.238	24.85	
3570.00	638000	Low	NR Band n48	40	Closed	18.61	E	0	Left	Tilt	CP-OFDM	QPSK	1	1	1:1	0.247	24.68	

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

**Table A-2**  
**DSI = 0 or DSI = 11  $P_{Limit}$  Calculations – 5G Body-Worn and UMPC SAR**

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Cover Type	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
3570.00	638000	Low	NR Band n48	40	Closed	19.87	E	0	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.208	26.69	26.63
3570.00	638000	Low	NR Band n48	40	Closed	19.99	E	0	DFT-S-OFDM	QPSK	50	56	15 mm	back	1:1	0.213	26.71	
3570.00	638000	Low	NR Band n48	40	Closed	19.75	E	0	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.205	26.63	
MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.363	24.27	24.11
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	back	1:1	0.387	24.11	
3570.00	638000	Low	NR Band n48	40	Open	19.75	E	0	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.348	24.33	
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.187	27.15	
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	front	1:1	0.196	27.07	
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.320	24.82	
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	top	1:1	0.320	24.94	

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

**Table A-3**  
**DSI = 5 or DSI = 6  $P_{Limit}$  Calculations – 5G Hotspot**

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
3570.00	638000	Low	NR Band n48	40	Closed	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.210	26.65	25.74
3570.00	638000	Low	NR Band n48	40	Closed	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	back	1:1	0.204	26.89	
3570.00	638000	Low	NR Band n48	40	Closed	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.034	34.56	
3570.00	638000	Low	NR Band n48	40	Closed	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	front	1:1	0.032	34.94	
3570.00	638000	Low	NR Band n48	40	Closed	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.224	26.37	
3570.00	638000	Low	NR Band n48	40	Closed	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	top	1:1	0.223	26.51	
3570.00	638000	Low	NR Band n48	40	Closed	19.75	E	0	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.252	25.74	
3570.00	638000	Low	NR Band n48	40	Closed	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.024	36.07	
3570.00	638000	Low	NR Band n48	40	Closed	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	left	1:1	0.027	35.68	

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

FCC ID: A3LSMF926U	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
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**Table A-4**  
**DSI = 1  $P_{Limit}$  Calculations – 5G 1g UMPC SAR**

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.363	24.27	24.11
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	back	1:1	0.387	24.11	
3570.00	638000	Low	NR Band n48	40	Open	19.75	E	0	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.348	24.33	
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.187	27.15	
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	front	1:1	0.196	27.07	
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.320	24.82	
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	DFT-S-OFDM	QPSK	50	56	10 mm	top	1:1	0.320	24.94	

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

**Table A-5**  
**DSI = 0 or DSI = 11  $P_{Limit}$  Calculations – 5G Phablet and 10g UMPC SAR**

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
3624.99	641666	Mid	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.509	26.73	20.58
3624.99	641666	Mid	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.044	37.36	
3624.99	641666	Mid	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	2.100	20.58	
3624.99	641666	Mid	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.077	34.93	

  

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.															(W/kg)			
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.030	23.72	19.85	
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	1.100		23.56
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	0356M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	1.300		22.71
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	front	1:1	1.360		22.63
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	0356M	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	2.140		20.55
3624.99	641666	Mid	NR Band n48	40	Open	19.82	E	0	0356M	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	2.470		19.87
3679.98	645332	High	NR Band n48	40	Open	19.85	E	0	0356M	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	2.490		19.87
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	2.340		20.28
3624.99	641666	Mid	NR Band n48	40	Open	19.85	E	0	0356M	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	2.460		19.92
3679.98	645332	High	NR Band n48	40	Open	19.95	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	2.550		19.86
3570.00	638000	Low	NR Band n48	40	Open	19.74	E	0	0356M	DFT-S-OFDM	QPSK	100	0	0 mm	top	1:1	2.440		19.85
3570.00	638000	Low	NR Band n48	40	Open	19.75	E	0	0356M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	2.290		20.13

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-6**  
**DSI = 1 or DSI = 2  $P_{Limit}$  Calculations – 5G Phablet and 10g UMPC SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Plimit	Overall Plimit		
MHz	Ch.														(W/kg)				
3624.99	641666	Md	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.509	26.73	20.58	
3624.99	641666	Md	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.044	37.36		
3624.99	641666	Md	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	2.100	20.58		
3624.99	641666	Md	NR Band n48	40	Closed	19.82	E	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.077	34.93		
MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	DUT Configuration	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Plimit	Overall Plimit	
MHz	Ch.															(W/kg)			
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	0356M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.030	23.72	19.85
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	1.100	23.56	
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	0356M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	1.300	22.71	
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	front	1:1	1.360	22.63	
3570.00	638000	Low	NR Band n48	40	Open	19.87	E	0	0356M	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	2.140	20.55	
3624.99	641666	Md	NR Band n48	40	Open	19.82	E	0	0356M	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	2.470	19.87	
3679.98	645332	High	NR Band n48	40	Open	19.85	E	0	0356M	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	2.490	19.87	
3570.00	638000	Low	NR Band n48	40	Open	19.99	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	2.340	20.28	
3624.99	641666	Md	NR Band n48	40	Open	19.85	E	0	0356M	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	2.460	19.92	
3679.98	645332	High	NR Band n48	40	Open	19.95	E	0	0356M	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	2.550	19.86	
3570.00	638000	Low	NR Band n48	40	Open	19.74	E	0	0356M	DFT-S-OFDM	QPSK	100	0	0 mm	top	1:1	2.440	19.85	
3570.00	638000	Low	NR Band n48	40	Open	19.75	E	0	0356M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	2.290	20.13	

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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