

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

Table A-1
DSI = 2 P_{Limit} Calculations – 5G Head SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	Low											(W/kg)	[dBm]	[dBm]
3570.00	638000	Low	NR Band n48	40	14.22	0	Right	Cheek	DFT-s-OFDM QPSK	1	104	1:1	0.447	17.72	17.69
3570.00	638000	Low	NR Band n48	40	14.13	0	Right	Cheek	DFT-s-OFDM QPSK	50	0	1:1	0.437	17.73	
3570.00	638000	Low	NR Band n48	40	14.22	0	Right	Tilt	DFT-s-OFDM QPSK	1	104	1:1	0.023	30.60	
3570.00	638000	Low	NR Band n48	40	14.13	0	Right	Tilt	DFT-s-OFDM QPSK	50	0	1:1	0.025	30.15	
3570.00	638000	Low	NR Band n48	40	14.22	0	Left	Cheek	DFT-s-OFDM QPSK	1	104	1:1	0.131	23.05	
3570.00	638000	Low	NR Band n48	40	14.13	0	Left	Cheek	DFT-s-OFDM QPSK	50	0	1:1	0.134	22.86	
3570.00	638000	Low	NR Band n48	40	14.22	0	Left	Tilt	DFT-s-OFDM QPSK	1	104	1:1	0.048	27.41	
3570.00	638000	Low	NR Band n48	40	14.13	0	Left	Tilt	DFT-s-OFDM QPSK	50	0	1:1	0.041	28.00	
3570.00	638000	Low	NR Band n48	40	14.18	0	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.446	17.69	

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

Table A-2
DSI = 0 P_{Limit} Calculations – 5G Body-Worn SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	Mid											(W/kg)	[dBm]	[dBm]
3624.99	641666	Mid	NR Band n48	40	18.24	0	DFT-s-OFDM QPSK	1	1	15	Back	1:1	0.115	27.63	26.96
3570.00	638000	Low	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.119	27.41	
3624.99	641666	Mid	NR Band n48	40	16.36	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.087	26.96	

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

Table A-3
DSI = 3 P_{Limit} Calculations – 5G Hotspot SAR

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	Mid											(W/kg)	[dBm]	[dBm]
3624.99	641666	Mid	NR Band n48	40	18.24	0	DFT-s-OFDM QPSK	1	1	10	Back	1:1	0.226	24.70	21.75
3570.00	638000	Low	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.225	24.65	
3624.99	641666	Mid	NR Band n48	40	18.24	0	DFT-s-OFDM QPSK	1	1	10	Front	1:1	0.249	24.28	
3570.00	638000	Low	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.247	24.24	
3624.99	641666	Mid	NR Band n48	40	18.24	0	DFT-s-OFDM QPSK	1	1	10	Right	1:1	0.405	22.17	
3570.00	638000	Low	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.391	22.25	
3624.99	641666	Mid	NR Band n48	40	16.36	1.5	CP-OFDM QPSK	1	1	10	Right	1:1	0.289	21.75	

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




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Test Dates: 11/09/20 – 12/01/20	DUT Type: Portable Handset	APPENDIX A: Page 1 of 2		

Table A-4
DSI = 0 P_{Limit} Calculations – 5G Phablet SAR




MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
3624.99	641666	Md	NR Band n48	40	17.85	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.527	24.61	18.12
3624.99	641666	Md	NR Band n48	40	17.85	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.245	20.88	
3570.00	638000	Low	NR Band n48	40	18.22	0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	2.090	19.00	
3624.99	641666	Md	NR Band n48	40	18.24	0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	2.050	19.10	
3681.63	645332	High	NR Band n48	40	18.12	0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	2.140	18.80	
3570.00	638000	Low	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	2.000	19.14	
3624.99	641666	Md	NR Band n48	40	17.74	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.960	18.80	
3681.63	645332	High	NR Band n48	40	17.62	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	2.230	18.12	
3570.00	638000	Low	NR Band n48	40	17.00	1	DFT-s-OFDM QPSK	100	0	0	Right	1:1	1.540	19.10	
3624.99	641666	Md	NR Band n48	40	16.36	1.5	CP-OFDM QPSK	1	1	0	Right	1:1	1.290	19.23	

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.

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

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
3624.99	641666	Md	NR Band n48	40	17.85	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.527	24.61	18.12
3624.99	641666	Md	NR Band n48	40	17.85	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	1.245	20.88	
3570.00	638000	Low	NR Band n48	40	18.22	0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	2.090	19.00	
3624.99	641666	Md	NR Band n48	40	18.24	0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	2.050	19.10	
3681.63	645332	High	NR Band n48	40	18.12	0	DFT-s-OFDM QPSK	1	1	0	Right	1:1	2.140	18.80	
3570.00	638000	Low	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	2.000	19.14	
3624.99	641666	Md	NR Band n48	40	17.74	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.960	18.80	
3681.63	645332	High	NR Band n48	40	17.62	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	2.230	18.12	
3570.00	638000	Low	NR Band n48	40	17.00	1	DFT-s-OFDM QPSK	100	0	0	Right	1:1	1.540	19.10	
3624.99	641666	Md	NR Band n48	40	16.36	1.5	CP-OFDM QPSK	1	1	0	Right	1:1	1.290	19.23	

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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