

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

<b>FCC ID:</b> BCGA2568	<b>PART 0 SAR CHAR REPORT</b>	<b>Approved by:</b> Quality Manager
<b>Test Dates:</b> 07/13/2021	<b>DUT Type:</b> Tablet Device	APPENDIX A: Page 1 of 4

REV 1.1  
04/08/2022

For some bands/modes, a lower P<sub>limit</sub> was selected as a more conservative evaluation.

**Table A-1**  
**DSI = 1 P<sub>Limit</sub> Calculations – NR Band n48 Antenna 1a**

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	P <sub>limit</sub>	Overall P <sub>limit</sub>	
MHz	Ch.													(W/kg)			
3570.00	638000	Low	NR Band n48	40	9.18	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.677	9.90	9.30
3624.99	641666	Mid	NR Band n48	40	9.25	Antenna 1a	0	DFT-S-OFDM	QPSK	1	53	0 mm	back	1:1	0.540	10.96	
3679.98	645332	High	NR Band n48	40	9.12	Antenna 1a	0	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.484	11.30	
3570.00	638000	Low	NR Band n48	40	8.96	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.663	9.78	
3624.99	641666	Mid	NR Band n48	40	9.15	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.573	10.60	
3679.98	645332	High	NR Band n48	40	8.82	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.491	10.94	
3624.99	641666	Mid	NR Band n48	40	9.08	Antenna 1a	0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.544	10.75	
3624.99	641666	Mid	NR Band n48	40	9.25	Antenna 1a	0	DFT-S-OFDM	QPSK	1	53	0 mm	top	1:1	0.000	38.28	
3624.99	641666	Mid	NR Band n48	40	9.15	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.001	38.18	
3624.99	641666	Mid	NR Band n48	40	9.25	Antenna 1a	0	DFT-S-OFDM	QPSK	1	53	0 mm	bottom	1:1	0.163	16.16	
3624.99	641666	Mid	NR Band n48	40	9.15	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.167	15.95	
3624.99	641666	Mid	NR Band n48	40	9.25	Antenna 1a	0	DFT-S-OFDM	QPSK	1	53	0 mm	right	1:1	0.000	38.28	
3624.99	641666	Mid	NR Band n48	40	9.15	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.000	38.18	
3570.00	638000	Low	NR Band n48	40	9.18	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.736	9.54	
3624.99	641666	Mid	NR Band n48	40	9.25	Antenna 1a	0	DFT-S-OFDM	QPSK	1	53	0 mm	left	1:1	0.551	10.87	
3679.98	645332	High	NR Band n48	40	9.12	Antenna 1a	0	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.556	10.70	
3570.00	638000	Low	NR Band n48	40	8.96	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.740	9.30	
3624.99	641666	Mid	NR Band n48	40	9.15	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.576	10.58	
3679.98	645332	High	NR Band n48	40	8.82	Antenna 1a	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.530	10.61	
3624.99	641666	Mid	NR Band n48	40	9.08	Antenna 1a	0	DFT-S-OFDM	QPSK	100	0	0 mm	left	1:1	0.561	10.62	
3624.99	641666	Mid	NR Band n48	40	9.31	Antenna 1a	0	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.670	10.08	
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-2**  
**DSI = 1  $P_{Limit}$  Calculations – NR Band n48 Antenna 2**

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Reported SAR (1g)	Plot #	
MHz	Ch.													(W/kg)	(W/kg)		
3570.00	638000	Low	NR Band n48	40	10.83	Antenna 2	0	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.602	12.06	11.67
3624.99	641666	Mid	NR Band n48	40	10.72	Antenna 2	0	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.531	12.50	
3679.98	645332	High	NR Band n48	40	10.65	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.615	11.79	
3570.00	638000	Low	NR Band n48	40	10.80	Antenna 2	0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.574	12.24	
3624.99	641666	Mid	NR Band n48	40	10.70	Antenna 2	0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.545	12.37	
3679.98	645332	High	NR Band n48	40	10.60	Antenna 2	0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.515	12.51	
3570.00	638000	Low	NR Band n48	40	10.71	Antenna 2	0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.595	12.00	
3570.00	638000	Low	NR Band n48	40	10.72	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.643	11.67	
3570.00	638000	Low	NR Band n48	40	10.83	Antenna 2	0	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.006	32.08	
3570.00	638000	Low	NR Band n48	40	10.80	Antenna 2	0	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.005	32.84	
3570.00	638000	Low	NR Band n48	40	10.83	Antenna 2	0	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.324	14.76	
3570.00	638000	Low	NR Band n48	40	10.80	Antenna 2	0	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.302	15.03	
3570.00	638000	Low	NR Band n48	40	10.83	Antenna 2	0	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.285	15.31	
3570.00	638000	Low	NR Band n48	40	10.80	Antenna 2	0	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.270	15.52	
3570.00	638000	Low	NR Band n48	40	10.83	Antenna 2	0	DFT-S-OFDM	QPSK	1	104	0 mm	left	1:1	0.000	39.86	
3570.00	638000	Low	NR Band n48	40	10.80	Antenna 2	0	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.000	39.83	
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-3**  
**DSI = 1  $P_{Limit}$  Calculations – NR Band n48 Antenna 3a**

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	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)			
3624.99	641666	Mid	NR Band n48	40	8.55	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.318	12.56	9.60
3624.99	641666	Mid	NR Band n48	40	8.44	Antenna 3a	0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.321	12.41	
3624.99	641666	Mid	NR Band n48	40	8.55	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.135	16.28	
3624.99	641666	Mid	NR Band n48	40	8.44	Antenna 3a	0	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.119	16.72	
3624.99	641666	Mid	NR Band n48	40	8.55	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.000	37.58	
3624.99	641666	Mid	NR Band n48	40	8.44	Antenna 3a	0	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.000	37.47	
3570.00	638000	Low	NR Band n48	40	8.51	Antenna 3a	0	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.588	9.85	
3624.99	641666	Mid	NR Band n48	40	8.55	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.585	9.91	
3679.98	645332	High	NR Band n48	40	8.54	Antenna 3a	0	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.588	9.88	
3570.00	638000	Low	NR Band n48	40	8.41	Antenna 3a	0	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.584	9.78	
3624.99	641666	Mid	NR Band n48	40	8.44	Antenna 3a	0	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.572	9.90	
3679.98	645332	High	NR Band n48	40	8.42	Antenna 3a	0	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.603	9.65	
3570.00	638000	Low	NR Band n48	40	8.40	Antenna 3a	0	DFT-S-OFDM	QPSK	100	0	0 mm	right	1:1	0.607	9.60	
3624.99	641666	Mid	NR Band n48	40	8.37	Antenna 3a	0	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.543	10.05	
3624.99	641666	Mid	NR Band n48	40	8.55	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.000	37.58	
3624.99	641666	Mid	NR Band n48	40	8.44	Antenna 3a	0	DFT-S-OFDM	QPSK	50	56	0 mm	left	1:1	0.000	37.47	
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-4**  
**DSI = 1  $P_{Limit}$  Calculations – NR Band n48 Antenna 4**

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	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	8.86	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.661	9.69	9.63
3624.99	641666	Mid	NR Band n48	40	8.90	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.676	9.63	
3679.98	645332	High	NR Band n48	40	8.86	Antenna 4	0	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.442	11.44	
3570.00	638000	Low	NR Band n48	40	8.81	Antenna 4	0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.611	9.98	
3624.99	641666	Mid	NR Band n48	40	8.89	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.649	9.80	
3679.98	645332	High	NR Band n48	40	8.86	Antenna 4	0	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.461	11.25	
3624.99	641666	Mid	NR Band n48	40	8.78	Antenna 4	0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.609	9.96	
3624.99	641666	Mid	NR Band n48	40	8.88	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.645	9.82	
3624.99	641666	Mid	NR Band n48	40	8.90	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.163	15.81	
3624.99	641666	Mid	NR Band n48	40	8.89	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.110	17.51	
3624.99	641666	Mid	NR Band n48	40	8.90	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.000	37.93	
3624.99	641666	Mid	NR Band n48	40	8.89	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.000	37.92	
3624.99	641666	Mid	NR Band n48	40	8.90	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.000	37.93	
3624.99	641666	Mid	NR Band n48	40	8.89	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.000	37.92	
3624.99	641666	Mid	NR Band n48	40	8.90	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.219	14.53	
3624.99	641666	Mid	NR Band n48	40	8.89	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.212	14.66	
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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