


# APPENDIX G: LTE AND NR LOWER BANDWIDTH RF CONDUCTED POWERS

<b>FCC ID:</b> BCGA2568	 <b>element</b>	<b>SAR EVALUATION REPORT</b>	<b>Approved by:</b> Quality Manager
<b>Test Dates:</b> 07/13/2021	<b>DUT Type:</b> Tablet Device		APPENDIX G: Page 1 of 6

All conducted power measurements for 5G Sub6 WWAN technologies and bands in this section were performed by setting *Reserve\_power\_margin* (Qualcomm® Smart Transmit EFS entry) to 0 dB, so that the EUT transmits continuously at minimum (Plimit, limitimum tune up output power Plimit).

Note: Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.


See the original filling for all lower bandwidth RF conducted powers for bands that were not evaluated for this permissive change.

## G.1 NR Lower Bandwidth RF Conducted Powers

### G.1.1 NR Band n48

**Table G-1**  
**NR Band n48 Measured P<sub>Limit</sub> Antenna 1a - 20 MHz Bandwidth**

NR Band n48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	8.84	9.17	9.16	9.26	0	0.0
	1	26	8.76	9.18	9.11	9.21		0.0
	1	49	8.67	9.16	9.12	9.39		0.0
	25	0	8.76	9.11	9.09	9.24	0-0.5	0.0
	25	13	8.70	9.13	9.01	9.23	0	0.0
	25	26	8.65	9.14	9.00	9.33	0-0.5	0.0
	50	0	8.66	9.15	8.99	9.26		0.0
DFT-s-OFDM QPSK	1	1	8.74	9.08	9.01	9.18	0	0.0
	1	26	8.75	9.05	8.87	9.22		0.0
	1	49	8.71	9.14	8.97	9.37		0.0
	25	0	8.71	9.18	9.09	9.25	0-1	0.0
	25	13	8.68	9.15	9.06	9.21	0	0.0
	25	26	8.66	9.13	8.98	9.31	0-1	0.0
50	0	8.73	9.17	9.05	9.29	0.0		
DFT-s-OFDM 16QAM	1	1	8.94	9.18	9.07	9.46	0-1	0.0
CP-OFDM QPSK	1	1	8.83	9.05	9.06	9.08	0-1.5	0.0


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**Table G-2**  
**NR Band n48 Measured  $P_{Limit}$  Antenna 1a - 10 MHz Bandwidth**

NR Band n48 10 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	8.81	9.09	9.15	9.29	0	0.0
	1	12	8.75	9.12	9.04	9.20		0.0
	1	22	8.78	9.14	9.01	9.32		0.0
	12	0	8.73	8.97	9.07	9.24	0-0.5	0.0
	12	6	8.72	9.03	8.98	9.24	0	0.0
	12	12	8.70	9.07	8.99	9.32	0-0.5	0.0
	24	0	8.71	9.00	9.02	9.25		0.0
DFT-s-OFDM QPSK	1	1	8.83	9.02	9.05	9.19	0	0.0
	1	12	8.76	8.96	8.98	9.30		0.0
	1	22	8.73	9.06	8.99	9.33		0.0
	12	0	8.79	9.05	9.06	9.28	0-1	0.0
	12	6	8.78	9.07	9.05	9.20	0	0.0
	12	12	8.73	9.04	9.00	9.27	0-1	0.0
	24	0	8.76	9.01	8.94	9.24		0.0
DFT-s-OFDM 16QAM	1	1	8.67	8.95	9.13	9.31	0-1	0.0
CP-OFDM QPSK	1	1	8.83	8.97	9.07	9.24	0-1.5	0.0

**Table G-3**  
**NR Band n48 Measured  $P_{Limit}$  Antenna 2 - 20 MHz Bandwidth**

NR Band n48 20 MHz Bandwidth									
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]	MPR [dB]
Modulation	RB Size	RB Offset	637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)			
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.82	11.16	11.04	11.28	0	0	0.0
	1	26	10.90	11.20	10.99	11.37		0	0.0
	1	49	10.93	11.17	10.95	11.39		0	0.0
	25	0	10.75	11.19	11.00	11.29	0-0.5	0	0.0
	25	13	10.81	11.14	10.98	11.26	0	0	0.0
	25	26	10.80	11.16	11.07	11.29	0-0.5	0	0.0
	50	0	10.87	11.12	10.95	11.33		0	0.0
DFT-s-OFDM QPSK	1	1	10.74	11.15	11.07	11.05	0	0	0.0
	1	26	10.61	11.06	10.91	10.97		0	0.0
	1	49	10.74	11.13	11.11	11.19		0	0.0
	25	0	10.72	11.20	11.05	11.10	0-1	0	0.0
	25	13	10.78	11.14	10.99	11.09	0	0	0.0
	25	26	10.76	11.16	11.12	11.18	0-1	0	0.0
	50	0	10.79	11.21	10.97	11.13		0	0.0
DFT-s-OFDM 16QAM	1	1	10.90	11.18	10.94	11.20	0-1	0	0.0
CP-OFDM QPSK	1	1	10.77	11.13	10.88	11.17	0-1.5	0	0.0


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**Table G-4**  
**NR Band n48 Measured  $P_{Limit}$  Antenna 2 - 10 MHz Bandwidth**

NR Band n48 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]	
			637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)			
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	10.87	11.15	11.14	11.39	0	0.0	
	1	12	10.90	11.02	11.09	11.30		0.0	
	1	22	10.91	11.11	10.95	11.29		0.0	
	DFT-s-OFDM QPSK	12	0	10.75	11.01	10.99	11.32	0-0.5	0.0
		12	6	10.84	11.03	10.97	11.37	0	0.0
		12	12	10.89	10.95	11.04	11.28	0-0.5	0.0
		24	0	10.86	11.04	10.94	11.24		0.0
1		1	10.38	11.07	11.12	11.05	0	0.0	
1	12	10.32	11.09	11.15	10.98	0.0			
1	22	10.34	11.06	11.09	11.20	0.0			
DFT-s-OFDM 16QAM	12	0	10.37	11.08	11.11	11.10	0-1	0.0	
	12	6	10.39	11.06	11.12	11.08	0	0.0	
	12	12	10.38	11.03	11.09	11.19	0-1	0.0	
	24	0	10.41	11.05	11.07	11.13		0.0	
CP-OFDM QPSK	1	1	10.89	11.13	11.25	10.95	0-1	0.0	
CP-OFDM QPSK	1	1	10.53	11.04	11.12	11.18	0-1.5	0.0	

**Table G-5**  
**NR Band n48 Measured  $P_{Limit}$  Antenna 3a - 20 MHz Bandwidth**

NR Band n48 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]	
			637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)			
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	8.24	8.47	8.23	8.63	0	0.0	
	1	26	8.18	8.35	8.08	8.54		0.0	
	1	49	8.31	8.27	8.24	8.59		0.0	
	DFT-s-OFDM QPSK	25	0	8.23	8.38	8.28	8.61	0-0.5	0.0
		25	13	8.19	8.36	8.23	8.57	0	0.0
		25	26	8.21	8.35	8.24	8.55	0-0.5	0.0
		50	0	8.27	8.27	8.17	8.57		0.0
DFT-s-OFDM 16QAM	1	1	8.14	8.45	8.22	8.54	0	0.0	
	1	26	8.08	8.34	8.13	8.39		0.0	
	1	49	8.13	8.37	8.18	8.55		0.0	
	25	0	8.19	8.44	8.28	8.58	0-1	0.0	
	25	13	8.12	8.39	8.23	8.53	0	0.0	
	25	26	8.14	8.37	8.27	8.6	0-1	0.0	
CP-OFDM QPSK	50	0	8.15	8.45	8.24	8.56	0-1	0.0	
CP-OFDM QPSK	1	1	8.22	8.44	7.98	8.48	0-1	0.0	
CP-OFDM QPSK	1	1	8.17	8.48	8.32	8.56	0-1.5	0.0	


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**Table G-6**  
**NR Band n48 Measured  $P_{Limit}$  Antenna 3a - 10 MHz Bandwidth**

NR Band n48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	8.13	8.53	8.39	8.53	0	0.0
	1	12	8.04	8.36	8.42	8.45		0.0
	1	22	8.16	8.33	8.27	8.46		0.0
	12	0	8.05	8.38	8.29	8.52	0-0.5	0.0
	12	6	7.99	8.36	8.3	8.11	0	0.0
	12	12	8.01	8.54	8.35	8.16	0-0.5	0.0
	24	0	8.03	8.43	8.34	8.56		0.0
DFT-s-OFDM QPSK	1	1	8.07	8.36	8.29	8.39	0	0.0
	1	12	7.94	8.39	8.24	8.42		0.0
	1	22	8.01	8.58	8.33	8.44		0.0
	12	0	7.99	8.34	8.32	8.48	0-1	0.0
	12	6	8.01	8.3	8.22	8.49	0	0.0
	12	12	7.96	8.35	8.28	8.56	0-1	0.0
	24	0	7.93	8.4	8.31	8.46		0.0
DFT-s-OFDM 16QAM	1	1	8.02	8.37	8.35	8.41	0-1	0.0
CP-OFDM QPSK	1	1	8.03	8.47	8.32	8.34	0-1.5	0.0


**Table G-7**  
**NR Band n48 Measured  $P_{Limit}$  Antenna 4 - 20 MHz Bandwidth**

NR Band n48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	8.62	9.52	9.41	9.28	0	0.0
	1	26	8.64	9.43	9.40	9.19		0.0
	1	49	8.75	9.44	9.28	9.30		0.0
	25	0	8.61	9.43	9.33	9.25	0-0.5	0.0
	25	13	8.59	9.45	9.30	9.15	0	0.0
	25	26	8.66	9.43	9.34	9.20	0-0.5	0.0
	50	0	8.62	9.39	9.36	9.21		0.0
DFT-s-OFDM QPSK	1	1	8.38	9.35	9.40	9.18	0	0.0
	1	26	8.35	9.17	9.31	9.11		0.0
	1	49	8.40	9.25	9.36	9.24		0.0
	25	0	8.36	9.20	9.35	9.04	0-1	0.0
	25	13	8.32	9.13	9.15	9.13	0	0.0
	25	26	8.36	9.30	9.28	9.16	0-1	0.0
	50	0	8.38	9.15	9.27	9.18		0.0
DFT-s-OFDM 16QAM	1	1	8.59	9.37	9.37	9.12	0-1	0.0
CP-OFDM QPSK	1	1	8.39	9.24	9.34	9.14	0-1.5	0.0

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**Table G-8**  
**NR Band n48 Measured  $P_{Limit}$  Antenna 4 - 20 MHz Bandwidth**

NR Band n48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	8.60	9.49	9.46	9.28	0	0.0
	1	12	8.55	9.41	9.18	9.07		0.0
	1	22	8.63	9.50	9.22	9.12		0.0
	12	0	8.45	9.36	9.35	9.13	0-0.5	0.0
	12	6	8.53	9.46	9.38	9.09	0	0.0
	12	12	8.61	9.43	9.31	9.12	0-0.5	0.0
	24	0	8.55	9.41	9.00	9.15		0.0
DFT-s-OFDM QPSK	1	1	8.58	9.39	9.38	9.17	0	0.0
	1	12	8.53	9.32	9.31	9.18		0.0
	1	22	8.62	9.34	9.33	9.23		0.0
	12	0	8.47	9.35	9.31	9.04	0-1	0.0
	12	6	8.57	9.20	9.20	9.12	0	0.0
	12	12	8.53	9.29	9.24	9.17	0-1	0.0
	24	0	8.55	9.28	9.28	9.07		0.0
DFT-s-OFDM 16QAM	1	1	8.60	9.37	9.35	9.12	0-1	0.0
CP-OFDM QPSK	1	1	8.58	9.38	9.37	9.15	0-1.5	0.0

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