

APPENDIX F: NR LOWER BANDWIDTH RF CONDUCTED POWERS

All conducted power measurements for 4G/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 (P_{limit} , maximum tune up output power P_{max}).

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

F.1 NR Lower Bandwidth RF Conducted Powers

F.1.1 NR Band n48

Table F-1

NR Band n48 Measured P_{Limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	18.78	18.05	18.82	18.41	0	0.0
	1	26	18.45	18.35	18.87	18.51		0.0
	1	49	18.42	18.55	18.85	18.71		0.0
	25	0	18.67	18.40	18.84	18.50	0-0.5	0.0
	25	13	18.59	18.56	18.97	18.61	0	0.0
	25	26	18.53	18.60	18.91	18.70	0-0.5	0.0
50	0	18.59	18.54	18.93	18.61	0.0		
DFT-s-OFDM QPSK	1	1	18.76	18.04	18.94	18.64	0	0.0
	1	26	18.56	18.24	19.01	18.62		0.0
	1	49	18.57	18.62	19.00	18.77		0.0
	25	0	18.65	18.19	18.89	18.54	0-1	0.0
	25	13	18.55	18.32	18.99	18.62	0	0.0
	25	26	18.52	18.41	18.97	18.67	0-1	0.0
50	0	18.59	18.26	18.93	18.57	0.0		
DFT-s-OFDM 16QAM	1	1	18.58	17.88	18.61	18.36	0-1	0.0
CP-OFDM QPSK	1	1	18.78	18.26	19.00	18.70	0-1.5	0.0



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Table F-2
NR Band n48 Measured P_{Limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	18.80	18.35	18.90	18.64	0	0.0	
	1	12	18.57	18.44	18.91	18.81		0.0	
	1	22	18.57	18.50	18.83	18.92		0.0	
		12	0	18.69	18.40	18.90	18.75	0-0.5	0.0
		12	6	18.56	18.44	18.92	18.80	0	0.0
		12	12	18.54	18.45	18.84	18.86	0-0.5	0.0
		24	0	18.66	18.48	18.92	18.85		0.0
DFT-s-OFDM QPSK	1	1	18.73	18.51	19.05	18.80	0	0.0	
	1	12	18.69	18.56	19.01	18.93		0.0	
	1	22	18.65	18.62	18.95	18.91		0.0	
		12	0	18.71	18.49	18.96	18.80	0-1	0.0
		12	6	18.64	18.52	18.96	18.82	0	0.0
		12	12	18.59	18.48	18.90	18.92	0-1	0.0
		24	0	18.66	18.49	18.96	18.87		0.0
DFT-s-OFDM 16QAM	1	1	18.60	18.23	18.75	18.50	0-1	0.0	
CP-OFDM QPSK	1	1	18.74	18.60	19.15	18.84	0-1.5	0.0	

Table F-3
NR Band n48 Measured P_{Limit} for DSI = 2 (Head) - 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	15.24	15.18	15.13	15.28	0	0.0	
	1	26	15.20	15.09	15.08	15.28		0.0	
	1	49	15.37	15.18	15.18	15.38		0.0	
		25	0	15.29	15.20	15.14	15.37	0-0.5	0.0
		25	13	15.39	15.22	15.18	15.35	0	0.0
		25	26	15.40	15.18	15.20	15.41	0-0.5	0.0
		50	0	15.38	15.18	15.16	15.37		0.0
DFT-s-OFDM QPSK	1	1	15.33	15.24	15.23	15.39	0	0.0	
	1	26	15.27	15.17	15.15	15.37		0.0	
	1	49	15.45	15.23	15.21	15.48		0.0	
		25	0	15.28	15.18	15.12	15.35	0-1	0.0
		25	13	15.39	15.19	15.14	15.36	0	0.0
		25	26	15.40	15.16	15.17	15.41	0-1	0.0
		50	0	15.35	15.18	15.14	15.37		0.0
DFT-s-OFDM 16QAM	1	1	15.29	15.21	15.08	15.36	0-1	0.0	
CP-OFDM QPSK	1	1	15.37	15.14	15.11	15.30	0-1.5	0.0	



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Table F-4
NR Band n48 Measured P_{Limit} for DSI = 2 (Head) - 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	15.30	15.04	15.10	15.28	0	0.0	
	1	12	15.32	15.05	15.11	15.34		0.0	
	1	22	15.28	15.08	15.08	15.32		0.0	
	DFT-s-OFDM QPSK	12	0	15.28	15.06	15.07	15.30	0-0.5	0.0
		12	6	15.33	15.04	15.10	15.36	0	0.0
		12	12	15.30	15.03	15.11	15.34	0-0.5	0.0
		24	0	15.30	15.01	15.05	15.36		0.0
DFT-s-OFDM QPSK	1	1	15.37	15.04	15.16	15.38	0	0.0	
	1	12	15.38	15.08	15.13	15.40		0.0	
	1	22	15.34	15.11	15.18	15.39		0.0	
	DFT-s-OFDM 16QAM	12	0	15.31	15.03	15.07	15.31	0-1	0.0
		12	6	15.33	15.07	15.11	15.37	0	0.0
		12	12	15.32	15.05	15.14	15.35	0-1	0.0
24	0	15.31	15.03	15.07	15.33	0.0			
CP-OFDM QPSK	1	1	15.32	14.98	15.05	15.31	0-1.5	0.0	

Table F-5
NR Band n48 Measured P_{Limit} for DSI = 3 (Hotspot) - 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	17.44	17.57	17.65	17.83	0	0.0	
	1	26	17.37	17.59	17.42	17.84		0.0	
	1	49	17.56	17.78	17.39	17.94		0.0	
	DFT-s-OFDM QPSK	25	0	17.47	17.55	17.54	17.83	0-0.5	0.0
		25	13	17.50	17.58	17.45	17.83	0	0.0
		25	26	17.53	17.70	17.37	17.85	0-0.5	0.0
		50	0	17.51	17.57	17.46	17.85		0.0
DFT-s-OFDM QPSK	1	1	17.56	17.55	17.70	17.84	0	0.0	
	1	26	17.51	17.57	17.44	17.82		0.0	
	1	49	17.68	17.78	17.39	17.88		0.0	
	DFT-s-OFDM 16QAM	25	0	17.50	17.48	17.54	17.80	0-1	0.0
		25	13	17.51	17.52	17.45	17.86	0	0.0
		25	26	17.52	17.70	17.38	17.84	0-1	0.0
50	0	17.54	17.55	17.48	17.86	0.0			
CP-OFDM QPSK	1	1	17.38	17.29	17.46	17.84	0-1.5	0.0	





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Table F-6
NR Band n48 Measured P_{Limit} for DSI = 3 (Hotspot) - 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	17.40	17.49	17.37	17.67	0	0.0
	1	12	17.40	17.57	17.38	17.71		0.0
	1	22	17.42	17.57	17.38	17.72		0.0
	12	0	17.34	17.52	17.28	17.69	0-0.5	0.0
	12	6	17.37	17.54	17.31	17.68	0	0.0
	12	12	17.38	17.54	17.27	17.70	0-0.5	0.0
	24	0	17.40	17.55	17.28	17.69		0.0
DFT-s-OFDM QPSK	1	1	17.45	17.49	17.39	17.70	0	0.0
	1	12	17.44	17.61	17.38	17.72		0.0
	1	22	17.48	17.63	17.42	17.72		0.0
	12	0	17.35	17.54	17.33	17.67	0-1	0.0
	12	6	17.37	17.53	17.27	17.71	0	0.0
	12	12	17.36	17.55	17.24	17.76	0-1	0.0
	24	0	17.36	17.55	17.27	17.72		0.0
DFT-s-OFDM 16QAM	1	1	17.49	17.52	17.77	18.09	0-1	0.0
CP-OFDM QPSK	1	1	17.23	17.31	17.36	17.84	0-1.5	0.0

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