

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.

1.1 NR Conducted Powers

1.1.1 NR Band n48

Table 1-1

NR Band n48 Measured P_{limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor not triggered), or DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 20 MHz Bandwidth

NR Band n48 20 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [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	19.79	19.36	19.23	19.38	0	0.0
	1	26	19.76	19.17	19.17	19.39		0.0
	1	49	19.72	19.20	19.18	19.50		0.0
	25	0	19.85	19.32	19.28	19.49	0-0.5	0.0
	25	13	19.89	19.22	19.30	19.45	0	0.0
	25	26	19.92	19.25	19.31	19.51	0-0.5	0.0
	50	0	19.94	19.32	19.28	19.48		0.0
DFT-s-OFDM QPSK	1	1	19.96	19.29	19.25	19.49	0	0.0
	1	26	19.91	19.13	19.29	19.47		0.0
	1	49	19.87	19.19	19.31	19.54		0.0
	25	0	19.91	19.25	19.27	19.49	0-1	0.0
	25	13	19.94	19.20	19.24	19.47	0	0.0
	25	26	19.93	19.19	19.31	19.53	0-1	0.0
	50	0	19.91	19.24	19.29	19.49		0.0
DFT-s-OFDM 16QAM	1	1	20.00	19.44	19.31	19.49	0-1	0.0
CP-OFDM QPSK	1	1	19.84	19.17	19.05	19.34	0-1.5	0.0

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Table 1-2

NR Band n48 Measured P_{limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor not triggered), or DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 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	19.78	19.33	19.09	19.24	0	0.0
	1	12	19.82	19.39	19.15	19.28		0.0
	1	22	19.83	19.31	19.17	19.30		0.0
	12	0	19.91	19.24	19.20	19.32	0-0.5	0.0
	12	6	19.93	19.27	19.18	19.33	0	0.0
	12	12	19.93	19.22	19.21	19.33	0-0.5	0.0
	24	0	19.90	19.28	19.27	19.35		0.0
DFT-s-OFDM QPSK	1	1	19.92	19.27	19.31	19.38	0	0.0
	1	12	19.99	19.27	19.32	19.41		0.0
	1	22	19.98	19.25	19.35	19.43		0.0
	12	0	19.89	19.32	19.28	19.32	0-1	0.0
	12	6	19.92	19.31	19.31	19.34	0	0.0
	12	12	19.91	19.24	19.19	19.35	0-1	0.0
	24	0	19.95	19.34	19.20	19.34		0.0
DFT-s-OFDM 16QAM	1	1	20.00	19.53	19.25	19.36	0-1	0.0
CP-OFDM QPSK	1	1	19.89	19.37	19.06	19.17	0-1.5	0.0

Table 1-3

NR Band n48 Measured P_{limit} for or DSI = 3/4 (Head) - 20 MHz Bandwidth

NR Band n48 20 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [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	18.39	17.94	17.72	17.75	0	0.0
	1	26	18.35	17.81	17.68	17.72		0.0
	1	49	18.17	17.80	17.78	17.85		0.0
	25	0	18.29	17.88	17.77	17.81	0-0.5	0.0
	25	13	18.33	17.90	17.77	17.84	0	0.0
	25	26	18.38	17.84	17.75	17.87	0-0.5	0.0
	50	0	18.45	17.90	17.80	17.89		0.0
DFT-s-OFDM QPSK	1	1	18.35	18.14	17.84	17.88	0	0.0
	1	26	18.31	17.94	17.82	17.87		0.0
	1	49	18.23	17.93	17.88	17.91		0.0
	25	0	18.39	17.99	17.84	17.86	0-1	0.0
	25	13	18.29	17.99	17.75	17.79	0	0.0
	25	26	18.32	17.88	17.85	17.89	0-1	0.0
	50	0	18.36	17.97	17.82	17.74		0.0
DFT-s-OFDM 16QAM	1	1	18.33	18.06	17.47	17.66	0-1	0.0
CP-OFDM QPSK	1	1	18.33	17.94	17.49	17.63	0-1.5	0.0

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Table 1-4
NR Band n48 Measured P_{limit} for or DSI = 3/4 (Head) - 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	18.32	17.89	17.56	17.77	0	0.0
	1	12	18.36	17.96	17.63	17.86		0.0
	1	22	18.39	18.02	17.69	17.68		0.0
	12	0	18.22	17.95	17.70	17.71	0-0.5	0.0
	12	6	18.27	17.99	17.71	17.61	0	0.0
	12	12	18.31	17.96	17.66	17.74	0-0.5	0.0
	24	0	18.19	18.00	17.71	17.76		0.0
DFT-s-OFDM QPSK	1	1	18.30	17.94	17.79	17.80	0	0.0
	1	12	18.38	17.83	17.82	17.87		0.0
	1	22	18.37	17.92	17.85	17.90		0.0
	12	0	18.31	17.85	17.72	17.81	0-1	0.0
	12	6	18.34	17.86	17.78	17.74	0	0.0
	12	12	18.34	17.85	17.76	17.78	0-1	0.0
	24	0	18.39	17.90	17.78	17.83		0.0
DFT-s-OFDM 16QAM	1	1	18.36	17.78	17.66	17.79	0-1	0.0
CP-OFDM QPSK	1	1	18.31	17.83	17.67	17.74	0-1.5	0.0

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