

APPENDIX I: 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}).

Note: Some bands do not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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 LTE/NR lower bandwidth RF conducted powers for bands that were not evaluated for this permissive change.

I.1 NR Lower Bandwidth RF Conducted Powers

I.1.1 NR Band n48

Table I-1

NR Band n48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with Grip Sensor Active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 30 MHz Bandwidth

NR Band n48 30 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637668 (3565.02 MHz)	640334 (3605.01 MHz)	643000 (3645 MHz)	645666 (3684.99 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.70	16.79	16.97	17.12	0	0.0
	1	39	16.66	16.82	16.79	16.84		0.0
	1	76	16.90	16.86	16.94	16.92		0.0
	36	0	16.64	16.93	16.85	16.91	0-0.5	0.0
	36	21	16.66	16.95	16.83	16.88	0	0.0
	36	42	16.76	16.93	16.94	16.85	0	0.0
DFT-s-OFDM QPSK	75	0	16.69	16.92	16.84	16.94	0-0.5	0.0
	1	1	16.66	16.78	16.85	16.98	0	0.0
	1	39	16.66	16.93	16.72	16.96		0.0
	1	76	16.85	16.94	16.81	16.92		0.0
	36	0	16.68	16.89	16.90	17.02	0-1	0.0
	36	21	16.67	16.91	16.84	16.97	0	0.0
	36	42	16.78	16.90	16.94	16.88	0	0.0
75	0	16.70	16.88	16.91	16.99	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	16.64	16.86	16.51	17.12	0-1	0.0
CP-OFDM QPSK	1	1	16.78	16.71	16.74	16.67	0-1.5	0.0




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Table I-2

NR Band n48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with Grip Sensor Active), or DSI = 3 (Hotspot Mode), 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	16.62	16.79	16.85	17.00	0	0.0
	1	26	16.59	16.76	16.83	16.59		0.0
	1	49	16.62	16.85	16.98	16.85		0.0
	25	0	16.60	16.82	16.76	16.99	0-0.5	0.0
	25	13	16.58	16.88	16.81	16.93	0	0.0
	25	26	16.67	16.90	16.86	16.98	0-0.5	0.0
	50	0	16.57	16.92	16.78	16.90		0.0
DFT-s-OFDM QPSK	1	1	16.74	16.67	16.73	16.91	0	0.0
	1	26	16.60	16.85	16.81	16.72		0.0
	1	49	16.73	17.10	16.87	16.88		0.0
	25	0	16.60	16.82	16.73	16.96	0-1	0.0
	25	13	16.59	16.90	16.78	16.91	0	0.0
	25	26	16.62	16.86	16.84	16.97	0-1	0.0
	50	0	16.60	16.84	16.84	16.93		0.0
DFT-s-OFDM 16QAM	1	1	16.42	16.81	16.98	17.13	0-1	0.0
CP-OFDM QPSK	1	1	16.68	16.75	16.78	16.76	0-1.5	0.0

Table I-3

NR Band n48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with Grip Sensor Active), or DSI = 3 (Hotspot Mode), 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	16.42	16.46	16.54	16.70	0	0.0
	1	12	16.40	16.77	16.65	16.91		0.0
	1	22	16.52	16.90	16.81	16.88		0.0
	12	0	16.35	16.61	16.55	16.76	0-0.5	0.0
	12	6	16.47	16.71	16.53	16.76	0	0.0
	12	12	16.56	16.61	16.70	16.78	0-0.5	0.0
	24	0	16.49	16.66	16.49	16.84		0.0
DFT-s-OFDM QPSK	1	1	16.39	16.64	16.59	16.86	0	0.0
	1	12	16.42	16.72	16.31	16.65		0.0
	1	22	16.64	16.72	16.71	16.80		0.0
	12	0	16.39	16.54	16.57	16.77	0-1	0.0
	12	6	16.49	16.67	16.65	16.70	0	0.0
	12	12	16.52	16.77	16.64	16.88	0-1	0.0
	24	0	16.49	16.63	16.61	16.83		0.0
DFT-s-OFDM 16QAM	1	1	16.40	16.58	16.53	16.21	0-1	0.0
CP-OFDM QPSK	1	1	16.39	16.61	16.66	16.88	0-1.5	0.0



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Table I-4
NR Band n48 Measured P_{Limit} for DSI = 2 (Head) - 30 MHz Bandwidth

NR Band n48 30 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637668 (3565.02 MHz)	640334 (3605.01 MHz)	643000 (3645 MHz)	645666 (3684.99 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	15.79	15.90	16.12	16.14	0	0.0
	1	39	15.67	15.99	16.05	16.04		0.0
	1	76	15.90	15.90	15.94	15.99		0.0
	36	0	15.72	15.99	16.10	15.98	0-0.5	0.0
	36	21	15.67	15.95	16.01	16.03	0	0.0
	36	42	15.81	15.86	16.07	15.87	0-0.5	0.0
	75	0	15.65	15.90	16.00	16.01		0.0
DFT-s-OFDM QPSK	1	1	15.78	16.18	16.16	16.14	0	0.0
	1	39	15.69	15.93	15.91	16.10		0.0
	1	76	15.80	15.93	16.02	15.86		0.0
	36	0	15.69	16.00	16.10	15.96	0-1	0.0
	36	21	15.67	15.92	16.00	15.95	0	0.0
	36	42	15.76	15.85	16.08	15.94	0-1	0.0
	75	0	15.64	15.91	16.03	16.00		0.0
DFT-s-OFDM 16QAM	1	1	15.78	15.76	16.50	15.92	0-1	0.0
CP-OFDM QPSK	1	1	15.52	16.09	16.05	16.27	0-1.5	0.0

Table I-5
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	15.69	16.00	15.91	16.14	0	0.0
	1	26	15.58	16.00	15.80	15.87		0.0
	1	49	15.75	15.81	16.16	15.96		0.0
	25	0	15.64	15.82	16.03	15.94	0-0.5	0.0
	25	13	15.61	15.86	16.00	15.83	0	0.0
	25	26	15.60	15.82	16.10	15.95	0-0.5	0.0
	50	0	15.61	15.83	16.00	15.87		0.0
DFT-s-OFDM QPSK	1	1	15.64	15.80	15.99	16.09	0	0.0
	1	26	15.56	15.92	15.97	15.85		0.0
	1	49	15.62	15.89	16.05	16.00		0.0
	25	0	15.61	15.87	15.90	15.95	0-1	0.0
	25	13	15.60	15.83	16.03	15.92	0	0.0
	25	26	15.59	15.86	16.06	15.96	0-1	0.0
	50	0	15.61	15.92	15.89	15.94		0.0
DFT-s-OFDM 16QAM	1	1	15.50	16.02	16.21	16.31	0-1	0.0
CP-OFDM QPSK	1	1	15.71	15.83	16.11	15.85	0-1.5	0.0






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Table I-6
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	15.57	15.71	15.91	15.78	0	0.0
	1	12	15.34	16.00	16.05	15.83		0.0
	1	22	15.56	15.94	15.92	15.91		0.0
	12	0	15.40	15.79	16.02	15.89	0-0.5	0.0
	12	6	15.55	15.62	15.81	15.85	0	0.0
	12	12	15.56	15.65	15.98	15.92	0-0.5	0.0
	24	0	15.49	15.68	15.99	15.71		0.0
DFT-s-OFDM QPSK	1	1	15.46	15.73	15.89	15.77	0	0.0
	1	12	15.37	15.69	15.75	15.78		0.0
	1	22	15.55	15.53	16.00	15.95		0.0
	12	0	15.44	15.75	15.77	15.76	0-1	0.0
	12	6	15.50	15.67	15.85	15.91	0	0.0
	12	12	15.50	15.75	15.71	15.77	0-1	0.0
	24	0	15.50	15.61	15.80	15.77		0.0
DFT-s-OFDM 16QAM	1	1	15.43	15.61	16.00	15.76	0-1	0.0
CP-OFDM QPSK	1	1	15.30	15.58	15.74	15.73	0-1.5	0.0

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