

APPENDIX F: NR LOWER BANDWIDTH RF CONDUCTED POWERS

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 (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.

Note: The lower bandwidth powers for NR Band n77 Main Antenna were reused from the original FCC grant. These powers can be found in Appendix I of document 1M2201200003-05.PY7

F.1 NR Lower Bandwidth RF Conducted Powers

F.1.1 NR Band n41

**Table F-1
NR Band n41 Sub Antenna Measured P_{Max} for DSI=2 (Head)- 90 MHz Bandwidth**

NR Band n41 90 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			508200 (2541 MHz)	528996 (2644.98 MHz)		
			Conducted Power [dBm]			
CP-OFDM QPSK	1	1	16.43	16.46	0-1.5	0.0
	1	123	16.30	16.51		0.0
	1	243	16.36	16.20		0.0
	1	244	16.40	16.15	0-3	0.0
	123	0	16.57	16.72		0.0
	123	61	16.53	16.57	0-1.5	0.0
	123	122	16.48	16.44	0-3	0.0
	245	0	16.50	16.54		0.0

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Table F-2
NR Band n41 Sub Antenna Measured P_{Max} for DSI=2 (Head)- 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
CP-OFDM QPSK	1	1	16.62	16.58	0-1.5	0.0
	1	109	16.30	16.50		0.0
	1	215	16.20	16.34		0.0
	1	216	16.40	16.26	0-3	0.0
	109	0	16.60	16.72		0.0
	109	54	16.53	16.53	0-1.5	0.0
	109	108	16.52	16.44	0-3	0.0
	217	0	16.53	16.54		0.0

Table F-3
NR Band n41 Sub Antenna Measured P_{Max} for DSI=2 (Head)- 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
CP-OFDM QPSK	1	1	16.73	16.80	16.69	0-1.5	0.0
	1	81	16.71	16.97	16.61		0.0
	1	160	16.66	16.91	16.27		0.0
	1	161	16.52	16.75	16.43	0-3	0.0
	81	0	16.79	16.92	16.84		0.0
	81	41	16.73	16.98	16.64	0-1.5	0.0
	81	81	16.70	16.95	16.61	0-3	0.0
	162	0	16.76	16.94	16.72		0.0

Table F-4
NR Band n41 Sub Antenna Measured P_{Max} for DSI=2 (Head)- 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
CP-OFDM QPSK	1	1	16.90	16.80	16.85	0-1.5	0.0
	1	67	16.64	16.85	16.64		0.0
	1	131	16.63	17.00	16.51		0.0
	1	132	16.70	16.78	16.54	0-3	0.0
	67	0	16.81	16.93	16.47	0.0	
	67	33	16.80	16.90	16.45	0-1.5	0.0
	67	66	16.77	16.93	16.45	0-3	0.0
	133	0	16.76	16.91	16.45		0.0

Table F-5
NR Band n41 Sub Antenna Measured P_{Max} for DSI=2 (Head)- 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
CP-OFDM QPSK	1	1	16.82	16.88	16.99	16.72	0-1.5	0.0
	1	53	16.64	16.78	16.69	16.39		0.0
	1	104	16.77	16.91	16.91	16.45		0.0
	1	105	16.71	17.04	16.95	16.49	0-3	0.0
	53	0	16.84	16.93	16.91	16.58	0.0	
	53	26	16.76	16.90	16.91	16.56	0-1.5	0.0
	53	53	16.78	16.91	16.91	16.59	0-3	0.0
	106	0	16.82	16.83	16.89	16.60		0.0

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Table F-6
NR Band n41 Sub Antenna Measured P_{Max} for DSI=2 (Head)- 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
			502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
Conducted Power [dBm]									
CP-OFDM QPSK	1	1	16.81	16.63	16.73	16.77	16.57	0-1.5	0.0
	1	39	16.75	16.50	16.79	16.65	16.51		0.0
	1	76	16.64	16.54	16.85	16.72	16.60		0.0
	1	77	16.63	16.57	16.81	16.72	16.54	0-3	0.0
	39	0	16.84	16.61	16.89	16.83	16.57		0.0
	39	19	16.77	16.61	16.86	16.74	16.53	0-1.5	0.0
	39	39	16.77	16.65	16.93	16.76	16.55	0-3	0.0
	78	0	16.75	16.65	16.92	16.78	16.58		0.0

Table F-7
NR Band n41 Sub Antenna Measured P_{Max} for DSI=2 (Head)- 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
			501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
Conducted Power [dBm]									
CP-OFDM QPSK	1	1	16.84	16.82	16.76	16.75	16.23	0-1.5	0.0
	1	26	16.77	16.89	16.81	16.52	16.35		0.0
	1	49	16.66	16.76	16.84	16.63	16.43		0.0
	1	50	16.86	16.71	16.65	16.73	16.42	0-3	0.0
	26	0	16.94	16.79	16.90	16.78	16.61		0.0
	26	13	16.90	16.78	16.94	16.77	16.55	0-1.5	0.0
	26	25	16.92	16.80	16.83	16.76	16.52	0-3	0.0
	51	0	16.89	16.74	16.87	16.73	16.54		0.0

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Table F-8

NR Band n41 Sub Antenna Measured P_{limit} for DSI=3 (Bodyworn, Hotspot and Phablet)- 90 MHz Bandwidth

NR Band n41 90 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			508200 (2541 MHz)	528996 (2644.98 MHz)		
			Conducted Power [dBm]			
CP-OFDM QPSK	1	1	15.15	15.33	0-1.5	0.0
	1	123	15.04	15.25		0.0
	1	243	15.20	15.01		0.0
	1	244	15.12	14.85	0-3	0.0
	123	0	15.32	15.50		0.0
	123	61	15.28	15.42	0-1.5	0.0
	123	122	15.24	15.25	0-3	0.0
	245	0	15.25	15.42		0.0

Table F-9

NR Band n41 Sub Antenna Measured P_{limit} for DSI=3 (Bodyworn, Hotspot and Phablet)- 80 MHz Bandwidth

NR Band n41 80 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			507204 (2536.02 MHz)	529998 (2649.99 MHz)		
			Conducted Power [dBm]			
CP-OFDM QPSK	1	1	15.28	15.28	0-1.5	0.0
	1	109	15.30	15.21		0.0
	1	215	15.12	14.95		0.0
	1	216	15.22	14.92	0-3	0.0
	109	0	15.32	15.47		0.0
	109	54	15.27	15.41	0-1.5	0.0
	109	108	15.24	15.16	0-3	0.0
	217	0	15.24	15.43		0.0

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Table F-10

NR Band n41 Sub Antenna Measured P_{limit} for DSI=3 (Bodyworn, Hotspot and Phablet)- 60 MHz Bandwidth

NR Band n41 60 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			505200 (2526 MHz)	518598 (2592.99 MHz)	531996 (2659.98 MHz)		
			Conducted Power [dBm]				
CP-OFDM QPSK	1	1	15.42	15.43	15.39	0-1.5	0.0
	1	81	15.28	15.65	15.31		0.0
	1	160	15.48	15.56	15.34		0.0
	1	161	15.27	15.72	15.16	0-3	0.0
	81	0	15.58	15.72	15.67	0-1.5	0.0
	81	41	15.50	15.74	15.61	0-1.5	0.0
	81	81	15.47	15.72	15.43	0-3	0.0
	162	0	15.75	15.75	15.55		0.0

Table F-11

NR Band n41 Sub Antenna Measured P_{limit} for DSI=3 (Bodyworn, Hotspot and Phablet)- 50 MHz Bandwidth

NR Band n41 50 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			504204 (2521.02 MHz)	518598 (2592.99 MHz)	532998 (2664.99 MHz)		
			Conducted Power [dBm]				
CP-OFDM QPSK	1	1	15.44	15.62	15.62	0-1.5	0.0
	1	67	15.29	15.66	15.46		0.0
	1	131	15.43	15.76	15.34		0.0
	1	132	15.50	15.70	15.30	0-3	0.0
	67	0	15.54	15.71	15.59	0-1.5	0.0
	67	33	15.50	15.71	15.47	0-1.5	0.0
	67	66	15.50	15.74	15.42	0-3	0.0
	133	0	15.51	15.78	15.59		0.0

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Table F-12

NR Band n41 Sub Antenna Measured P_{limit} for DSI=3 (Bodyworn, Hotspot and Phablet)- 40 MHz Bandwidth

NR Band n41 40 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			503202 (2516.01 MHz)	513468 (2567.34 MHz)	523734 (2618.67 MHz)	534000 (2670 MHz)		
			Conducted Power [dBm]					
CP-OFDM QPSK	1	1	15.82	15.83	15.81	15.78	0-1.5	0.0
	1	53	15.50	15.60	15.76	15.49		0.0
	1	104	15.63	15.85	15.81	15.44		0.0
	1	105	15.66	15.96	15.88	15.49	0-3	0.0
	53	0	15.70	15.86	15.85	15.56		0.0
	53	26	15.65	15.85	15.85	15.54	0-1.5	0.0
	53	53	15.66	15.94	15.90	15.57	0-3	0.0
	106	0	15.66	15.88	15.85	15.64		0.0

Table F-13

NR Band n41 Sub Antenna Measured P_{limit} for DSI=3 (Bodyworn, Hotspot and Phablet)- 30 MHz Bandwidth

NR Band n41 30 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
			502200 (2511 MHz)	510402 (2552.01 MHz)	518598 (2592.99 MHz)	526800 (2634 MHz)	534996 (2674.98 MHz)		
			Conducted Power [dBm]						
CP-OFDM QPSK	1	1	15.65	15.40	15.72	15.75	15.54	0-1.5	0.0
	1	39	15.54	15.53	15.75	15.73	15.24		0.0
	1	76	15.65	15.65	15.84	15.85	15.40		0.0
	1	77	15.57	15.67	15.84	15.75	15.34	0-3	0.0
	39	0	15.82	15.63	15.85	15.82	15.50		0.0
	39	19	15.71	15.59	15.87	15.82	15.48	0-1.5	0.0
	39	39	15.74	15.63	15.89	15.83	15.50	0-3	0.0
	78	0	15.70	15.60	15.88	15.83	15.51		0.0

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Table F-14

NR Band n41 Sub Antenna Measured P_{limit} for DSI=3 (Bodyworn, Hotspot and Phablet)- 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
			501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
Conducted Power [dBm]									
CP-OFDM QPSK	1	1	15.61	15.50	15.70	15.66	15.58	0-1.5	0.0
	1	26	15.54	15.48	15.63	15.57	15.37		0.0
	1	49	15.53	15.62	15.66	15.67	15.37		0.0
	1	50	15.45	15.50	15.68	15.65	15.34	0-3	0.0
	26	0	15.65	15.57	15.84	15.76	15.59		0.0
	26	13	15.67	15.64	15.83	15.73	15.52	0-1.5	0.0
	26	25	15.66	15.60	15.81	15.72	15.54	0-3	0.0
	51	0	15.72	15.65	15.74	15.74	15.57		0.0

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F.1.2 NR Band n77

Table F-15
NR Band n77 Sub Antenna Measured P_{max} for all DSI - 80 MHz Bandwidth

NR Band n77 80 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			649334 (3740.01 MHz)	656000 (3840 MHz)	662666 (3939.99 MHz)		
			Conducted Power [dBm]				
CP-OFDM QPSK	1	1	14.34	14.02	14.01	0-1.5	0.0
	1	109	14.40	14.02	14.28		0.0
	1	215	14.56	14.23	14.00		0.0
	1	216	14.52	14.32	14.08	0-3	0.0
	109	0	14.42	14.12	14.22		0.0
	109	54	14.38	14.12	14.19	0-1.5	0.0
	109	108	14.54	14.23	14.06	0-3	0.0
	217	0	14.43	14.10	14.16		0.0

Table F-16
NR Band n77 Sub Antenna Measured P_{max} for all DSI - 40 MHz Bandwidth

NR Band n77 40 MHz Bandwidth										
Modulation	RB Size	RB Offset	Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
			648000 (3720 MHz)	651200 (3768 MHz)	654400 (3816 MHz)	657600 (3864 MHz)	660800 (3912 MHz)	664000 (3960 MHz)		
			Conducted Power [dBm]							
CP-OFDM QPSK	1	1	15.10	15.20	14.77	15.00	14.85	14.80	0-1.5	0.0
	1	53	15.35	14.80	14.53	14.98	15.34	14.89		0.0
	1	104	14.74	14.96	14.40	14.35	14.75	15.43		0.0
	1	105	15.19	14.57	14.93	14.86	15.00	14.65	0-3	0.0
	53	0	14.85	14.93	14.74	14.81	14.94	15.02		0.0
	53	26	14.95	15.10	14.73	14.87	14.91	14.93	0-1.5	0.0
	53	53	15.01	15.01	14.64	14.92	14.91	15.10	0-3	0.0
	106	0	15.00	15.00	14.79	14.79	14.97	14.97		0.0

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Table F-17
NR Band n77 Sub Antenna Measured P_{max} for all DSI - 30 MHz Bandwidth

NR Band n77 30 MHz Bandwidth										
Modulation	RB Size	RB Offset	Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
			647668 (3715.02 MHz)	651000 (3765 MHz)	654334 (3815.01 MHz)	657666 (3864.99 MHz)	661000 (3915 MHz)	664332 (3964.98 MHz)		
			Conducted Power [dBm]							
CP-OFDM QPSK	1	1	14.88	14.90	14.72	14.59	14.84	14.70	0-1.5	0.0
	1	39	14.87	14.99	14.62	14.62	14.93	14.68		0.0
	1	76	14.91	14.92	14.65	14.85	14.89	14.94		0.0
	1	77	15.02	15.06	14.48	14.87	14.75	14.80	0-3	0.0
	39	0	14.93	15.11	14.79	14.80	14.94	14.90		0.0
	39	19	14.97	14.99	14.79	14.82	14.98	14.96	0-1.5	0.0
	39	39	15.01	15.04	14.67	14.87	14.97	14.91	0-3	0.0
	78	0	14.97	15.04	14.70	14.80	14.98	14.99		0.0

Table F-18
NR Band n77 Sub Antenna Measured P_{max} for all DSI - 20 MHz Bandwidth

NR Band n77 20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Channel						MPR Allowed per 3GPP [dB]	MPR [dB]
			647334 (3710.01 MHz)	650800 (3762 MHz)	654266 (3813.99 MHz)	657734 (3866.01 MHz)	661200 (3918 MHz)	664666 (3969.99 MHz)		
			Conducted Power [dBm]							
CP-OFDM QPSK	1	1	15.20	15.21	14.71	14.90	14.96	14.70	0-1.5	0.0
	1	26	14.83	15.16	14.76	14.90	15.31	14.92		0.0
	1	49	14.85	15.04	14.52	14.69	14.89	14.83		0.0
	1	50	15.21	14.94	14.47	14.73	15.07	14.85	0-3	0.0
	26	0	15.00	15.19	14.79	14.81	14.85	14.90		0.0
	26	13	14.89	15.05	14.72	14.82	14.95	14.98	0-1.5	0.0
	26	25	15.04	15.11	14.77	15.00	14.88	14.91	0-3	0.0
	51	0	14.89	14.94	14.71	14.91	14.91	14.99		0.0

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