

APPENDIX G: NR LOWER BANDWIDTH RF CONDUCTED POWERS

FCC ID: BCGA2757	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G Page 1 of 5

Note: See the original filing for all other operations that were not evaluated in this permissive change.

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}).

G.1 NR Lower Bandwidth RF Conducted Powers

G.1.1 NR Band n48

Table G-1
NR Band n48 Measured P_{Limit} 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	10.26	9.91	9.85	9.70	0	0.0
	1	26	10.15	9.78	9.83	9.49		0.0
	1	49	10.14	9.83	9.80	9.54		0.0
	25	0	10.22	9.82	9.85	9.63	0-0.5	0.0
	25	13	10.17	9.80	9.45	9.54	0	0.0
	25	26	10.16	9.82	9.51	9.56	0-0.5	0.0
DFT-s-OFDM QPSK	1	1	10.28	9.98	9.54	9.66	0	0.0
	1	26	10.11	9.64	9.40	9.57		0.0
	1	49	10.09	9.98	9.48	9.61		0.0
	25	0	10.00	9.81	9.50	9.64	0-1	0.0
	25	13	10.04	9.82	9.48	9.57	0	0.0
	25	26	10.09	9.80	9.50	9.56	0-1	0.0
DFT-s-OFDM 16QAM	1	1	10.03	9.85	9.43	10.06	0-1	0.0
CP-OFDM QPSK	1	1	10.23	9.77	9.54	9.66	0-1.5	0.0

Table G-2
NR Band n48 Measured P_{Limit} Antenna 1a - 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	10.31	9.71	9.78	9.71	0	0.0
	1	12	10.35	9.81	9.64	9.38		0.0
	1	22	10.27	9.68	9.68	9.43		0.0
	12	0	10.29	9.75	9.68	9.53	0-0.5	0.0
	12	6	10.28	9.68	9.66	9.49	0	0.0
	12	12	10.21	9.66	9.61	9.30	0-0.5	0.0
DFT-s-OFDM QPSK	1	1	10.32	9.87	9.59	9.31	0	0.0
	1	12	10.12	9.76	9.46	9.31		0.0
	1	22	10.16	9.78	9.60	9.29		0.0
	12	0	10.05	9.70	9.55	9.33	0-1	0.0
	12	6	10.05	9.72	9.61	9.26	0	0.0
	12	12	10.07	9.73	9.57	9.28	0-1	0.0
DFT-s-OFDM 16QAM	1	1	10.19	9.75	9.51	9.26	0-1	0.0
CP-OFDM QPSK	1	1	10.27	9.64	9.57	9.33	0-1.5	0.0

FCC ID: BCGA2757	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G Page 2 of 5

Table G-3
NR Band n48 Measured P_{Limit} Antenna 2a - 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	8.44	8.34	8.04	8.13	0	0.0
	1	26	8.33	8.27	8.08	7.91		0.0
	1	49	8.37	8.21	8.11	8.04		0.0
	25	0	8.41	8.25	8.06	8.10	0-0.5	0.0
	25	13	8.35	8.18	8.09	8.02	0	0.0
	25	26	8.33	8.22	8.08	8.01	0-0.5	0.0
50	0	8.30	8.17	8.09	8.07	0.0		
DFT-s-OFDM QPSK	1	1	8.36	8.30	8.21	8.13	0	0.0
	1	26	8.30	8.18	8.07	8.08		0.0
	1	49	8.44	8.17	8.15	8.05		0.0
	25	0	8.40	8.24	8.09	8.09	0-1	0.0
	25	13	8.33	8.17	8.00	8.03	0	0.0
	25	26	8.31	8.19	8.07	7.97	0-1	0.0
50	0	8.37	8.22	8.04	8.02	0.0		
DFT-s-OFDM 16QAM	1	1	8.29	8.23	8.01	8.12	0-1	0.0
CP-OFDM QPSK	1	1	8.34	8.28	8.14	8.05	0-1.5	0.0

Table G-4
NR Band n48 Measured P_{Limit} Antenna 2a - 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	8.42	8.38	8.16	8.07	0	0.0
	1	12	8.32	8.27	8.12	8.12		0.0
	1	22	8.40	8.24	8.17	8.02		0.0
	12	0	8.44	8.33	8.14	8.14	0-0.5	0.0
	12	6	8.41	8.25	8.07	8.03	0	0.0
	12	12	8.35	8.23	8.12	8.02	0-0.5	0.0
24	0	8.40	8.26	8.04	8.06	0.0		
DFT-s-OFDM QPSK	1	1	8.40	8.35	8.12	8.20	0	0.0
	1	12	8.35	8.34	8.15	8.10		0.0
	1	22	8.42	8.31	8.13	8.12		0.0
	12	0	8.43	8.30	8.24	8.18	0-1	0.0
	12	6	8.39	8.32	8.20	8.14	0	0.0
	12	12	8.41	8.24	8.18	8.17	0-1	0.0
24	0	8.38	8.24	8.12	8.04	0.0		
DFT-s-OFDM 16QAM	1	1	8.34	8.16	8.12	8.21	0-1	0.0
CP-OFDM QPSK	1	1	8.31	8.36	8.18	8.15	0-1.5	0.0

FCC ID: BCGA2757	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G Page 3 of 5

Table G-5
NR Band n48 Measured P_{Limit} Antenna 3b - 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	12.57	12.27	12.24	12.34	0	0.0
	1	26	12.50	12.24	12.17	12.15		0.0
	1	49	12.56	12.31	12.18	12.24		0.0
	25	0	12.52	12.25	12.10	12.27	0-0.5	0.0
	25	13	12.51	12.21	12.14	12.18	0	0.0
	25	26	12.47	12.17	12.16	12.16	0-0.5	0.0
DFT-s-OFDM QPSK	1	1	12.60	12.22	12.24	12.35	0	0.0
	1	26	12.54	12.20	12.12	12.27		0.0
	1	49	12.59	12.27	12.23	12.24		0.0
	25	0	12.56	12.26	12.06	12.23	0-1	0.0
	25	13	12.49	12.21	12.15	12.21	0	0.0
	25	26	12.51	12.11	12.00	12.19	0-1	0.0
DFT-s-OFDM 16QAM	1	1	12.49	12.24	12.27	12.48	0-1	0.0
CP-OFDM QPSK	1	1	12.47	12.22	12.17	12.31	0-1.5	0.0

Table G-6
NR Band n48 Measured P_{Limit} Antenna 3b - 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	12.54	12.33	12.45	12.22	0	0.0
	1	12	12.58	12.43	12.21	12.18		0.0
	1	22	12.50	12.34	12.31	12.21		0.0
	12	0	12.54	12.27	12.19	12.17	0-0.5	0.0
	12	6	12.62	12.28	12.21	12.20	0	0.0
	12	12	12.58	12.30	12.20	12.23	0-0.5	0.0
DFT-s-OFDM QPSK	1	1	12.64	12.42	12.28	12.19	0	0.0
	1	12	12.62	12.40	12.24	12.08		0.0
	1	22	12.69	12.38	12.42	12.27		0.0
	12	0	12.62	12.27	12.24	12.06	0-1	0.0
	12	6	12.68	12.35	12.28	12.10	0	0.0
	12	12	12.62	12.41	12.19	12.08	0-1	0.0
DFT-s-OFDM 16QAM	1	1	12.60	12.44	12.36	12.42	0-1	0.0
CP-OFDM QPSK	1	1	12.56	12.23	12.14	12.09	0-1.5	0.0

FCC ID: BCGA2757	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Tablet Device		APPENDIX G Page 4 of 5

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	9.97	9.70	9.49	9.58	0	0.0
	1	26	9.93	9.58	9.20	9.47		0.0
	1	49	9.95	9.64	9.37	9.63		0.0
	25	0	9.88	9.72	9.29	9.43	0-0.5	0.0
	25	13	9.85	9.70	9.28	9.46	0	0.0
	25	26	9.93	9.72	9.21	9.45	0-0.5	0.0
50	0	9.83	9.68	9.25	9.48	0.0		
DFT-s-OFDM QPSK	1	1	9.96	9.67	9.43	9.42	0	0.0
	1	26	9.85	9.64	9.26	9.43		0.0
	1	49	9.99	9.72	9.38	9.46		0.0
	25	0	9.97	9.74	9.32	9.46	0-1	0.0
	25	13	9.98	9.70	9.31	9.45	0	0.0
	25	26	10.00	9.66	9.32	9.49	0-1	0.0
50	0	9.99	9.73	9.35	9.43	0.0		
DFT-s-OFDM 16QAM	1	1	9.83	9.62	9.37	9.42	0-1	0.0
CP-OFDM QPSK	1	1	10.04	9.82	9.50	9.53	0-1.5	0.0

Table G-8
NR Band n48 Measured P_{Limit} Antenna 4 - 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	9.88	9.55	9.30	9.32	0	0.0
	1	12	9.82	9.43	9.27	9.28		0.0
	1	22	9.89	9.60	9.32	9.31		0.0
	12	0	9.82	9.51	9.25	9.38	0-0.5	0.0
	12	6	9.88	9.57	9.20	9.42	0-0.5	0.0
	12	12	9.81	9.48	9.21	9.39		0.0
DFT-s-OFDM QPSK	1	1	9.90	9.52	9.27	9.30	0	0.0
	1	12	9.80	9.44	9.20	9.34		0.0
	1	22	9.84	9.45	9.33	9.31		0.0
	12	0	9.90	9.47	9.31	9.39	0-1	0.0
	12	6	9.92	9.50	9.30	9.38	0	0.0
	12	12	9.85	9.48	9.26	9.30	0-1	0.0
24	0	9.90	9.40	9.27	9.37	0.0		
DFT-s-OFDM 16QAM	1	1	9.82	9.36	9.18	9.30	0-1	0.0
CP-OFDM QPSK	1	1	9.94	9.55	9.30	9.39	0-1.5	0.0