

Appendix G: Secondary Mode Conducted Powers

G.1. LTE-M Conducted Powers

LTE-M Band 12		Frequency [MHz]			707.5	MPR [dB]
Antenna:	Main					
Bandwidth [MHz]:	10	Channel Number			23095	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]	
Max	16QAM	1	0	1	22.23	0
		1	2	3	22.21	0
		1	5	6	22.26	0
		3	0	1	22.12	0
		3	2	3	22.09	0
		3	3	6	22.07	0
		6	0	1	21.42	2
		6	0	3	21.44	2
		6	0	6	21.48	2

LTE-M Band 12		Frequency [MHz]			701.5	707.5	713.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			23035	23095	23155	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.28	22.27	22.36	0
		1	2	1	22.41	22.50	22.41	0
		1	5	2	22.34	22.25	22.40	0
		3	0	Low	21.27	21.31	21.22	1
		3	2	1	21.21	21.30	21.30	1
		3	3	2	21.27	21.29	21.32	1
		6	0	Low	21.24	21.32	21.29	1
		6	0	1	21.26	21.32	21.28	1
		6	0	2	21.29	21.28	21.26	1
	16QAM	1	0	Low	21.92	22.23	22.48	0
		1	2	1	22.11	22.25	22.36	0
		1	5	2	21.93	22.04	22.45	0
		3	0	Low	21.32	21.38	21.43	1
		3	2	1	21.36	21.36	21.37	1
		3	3	2	21.42	21.37	21.38	1
		6	0	Low	20.44	20.49	20.53	2
		6	0	1	20.41	20.51	20.52	2
		6	0	2	20.44	20.45	20.50	2

LTE-M Band 12		Frequency [MHz]			700.5	707.5	714.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			23025	23095	23165	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	21.38	22.29	22.39	0
		1	0	High	22.39	22.23	22.36	0
		1	5	High	22.43	22.24	22.27	0
		3	0	Low	21.28	21.32	21.41	1
		3	0	High	21.25	21.27	21.39	1
		3	3	High	21.27	21.28	21.40	1
		6	0	Low	21.34	21.33	21.38	2
		6	0	High	21.33	21.40	21.36	2
	16QAM	1	0	Low	20.99	20.43	21.09	1
		1	0	High	21.07	21.19	21.12	1
		1	5	High	20.97	21.20	21.05	1
		3	0	Low	20.27	20.48	20.43	2
		3	0	High	20.37	20.42	20.41	2
		3	3	High	20.40	20.43	20.39	2
		6	0	Low	20.47	20.43	20.32	2
		6	0	High	20.46	20.36	20.31	2

LTE-M Band 12		Frequency [MHz]			699.7	707.5	715.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			23017	23095	23173	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.18	22.44	22.33	0
		1	2	N/A	22.30	22.36	22.33	0
		1	5	N/A	22.18	22.35	22.31	0
		3	0	N/A	21.27	21.28	21.25	1
		3	2	N/A	21.26	21.36	21.33	1
		3	3	N/A	21.29	21.40	21.36	1
		6	0	N/A	21.36	21.41	21.38	2
	16QAM	1	0	N/A	21.78	21.20	21.20	1
		1	2	N/A	21.79	21.23	21.22	1
		1	5	N/A	21.71	21.21	21.19	1
		3	0	N/A	20.33	20.43	20.51	2
		3	2	N/A	20.44	20.52	20.53	2
		3	3	N/A	20.37	20.56	20.53	2
		6	0	N/A	20.33	20.48	20.46	2

LTE-M Band 4		Frequency [MHz]			1732.5	MPR [dB]
Antenna:	Main					
Bandwidth [MHz]:	20	Channel Number			20175	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]	
Max	16QAM	1	0	1	22.07	0
		1	0	7	22.06	0
		1	5	14	22.08	0
		3	0	1	22.13	0
		3	0	7	22.02	0
		3	3	14	22	0
		6	0	1	22.01	0
		6	0	7	22.01	0
		6	0	14	22.03	0

LTE-M Band 4		Frequency [MHz]			1717.5	1732.5	1747.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	15	Channel Number			20025	20175	20325	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.05	21.94	21.93	0
		1	0	5	21.94	21.96	21.93	0
		1	5	10	21.93	21.92	21.92	0
		3	0	1	22.00	22.07	21.89	0
		3	0	5	21.98	22.05	21.89	0
		3	3	10	21.87	22.03	21.88	0
		6	0	1	21.94	22.07	21.89	0
		6	0	5	21.94	22.04	21.97	0
		6	0	10	21.92	21.99	21.97	0
	16QAM	1	0	1	22.28	21.66	21.54	0
		1	0	5	22.31	21.67	21.47	0
		1	5	10	22.19	21.66	21.51	0
		3	0	1	22.13	22.12	22.05	0
		3	0	5	21.99	22.12	22.04	0
		3	3	10	21.98	22.11	22.01	0
		6	0	1	22.13	22.09	21.96	0
		6	0	5	22.14	22.07	21.99	0
		6	0	10	22.13	22.06	22.05	0

LTE-M Band 4		Frequency [MHz]			1715	1732.5	1750	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	10	Channel Number			20000	20175	20350	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.05	21.77	21.91	0
		1	2	3	21.97	22.02	22.07	0
		1	5	6	21.96	21.93	21.95	0
		3	0	1	21.98	22.02	21.89	0
		3	2	3	21.96	21.98	21.88	0
		3	3	6	21.97	22.04	21.79	0
		6	0	1	20.97	20.94	20.91	1
		6	0	3	20.97	20.95	20.91	1
		6	0	6	20.95	20.97	20.93	1
	16QAM	1	0	1	22.19	21.95	21.49	0
		1	2	3	22.07	21.95	21.61	0
		1	5	6	22.17	21.97	21.64	0
		3	0	1	22.11	21.91	21.91	0
		3	2	3	21.97	22.04	21.88	0
		3	3	6	21.86	21.98	21.95	0
		6	0	1	21.14	20.96	21.04	2
		6	0	3	21.16	20.98	21.04	2
		6	0	6	21.15	20.99	21.05	2

LTE-M Band 4		Frequency [MHz]			1712.5	1732.5	1752.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			19975	20175	20375	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	21.06	21.96	21.91	0
		1	2	1	22.08	22.12	21.97	0
		1	5	2	21.96	21.99	21.92	0
		3	0	Low	21.03	20.95	20.99	1
		3	2	1	20.98	20.93	20.99	1
		3	3	2	21.01	20.95	21.01	1
		6	0	Low	21.06	20.95	20.81	1
		6	0	1	21.03	20.97	20.83	1
		6	0	2	21.02	20.94	20.81	1
	16QAM	1	0	Low	21.91	21.43	22.12	0
		1	2	1	22.01	21.62	22.17	0
		1	5	2	22.02	21.63	22.13	0
		3	0	Low	21.05	21.02	21.11	1
		3	2	1	21.01	21.02	21.09	1
		3	3	2	21.02	21.03	20.99	1
		6	0	Low	20.08	20.07	20.02	2
		6	0	1	20.06	19.98	20.01	2
		6	0	2	20.04	19.96	20.02	2

LTE-M Band 4		Frequency [MHz]			1711.5	1732.5	1753.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	3	Channel Number			19965	20175	20385	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.11	22.12	22.03	0
		1	0	High	22.06	22.09	22.06	0
		1	5	High	21.96	22.13	22.09	0
		3	0	Low	21.01	20.99	20.94	1
		3	0	High	21.14	20.96	20.91	1
		3	3	High	21.16	20.98	20.92	1
		6	0	Low	21.04	20.93	20.95	2
		6	0	High	21.17	20.91	20.93	2
	16QAM	1	0	Low	20.82	20.77	20.69	1
		1	0	High	20.81	20.74	20.66	1
		1	5	High	20.88	20.75	20.67	1
		3	0	Low	20.09	19.97	19.91	2
		3	0	High	20.06	19.95	19.99	2
		3	3	High	20.11	19.96	19.91	2
		6	0	Low	20.06	19.81	20.12	2
		6	0	High	20.04	19.78	20.11	2

LTE-M Band 4		Frequency [MHz]			1710.7	1732.5	1754.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			19957	20175	20393	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.14	22.06	21.84	0
		1	2	N/A	22.29	22.05	22.09	0
		1	5	N/A	22.17	22.06	21.87	0
		3	0	N/A	20.99	20.91	21.01	1
		3	2	N/A	21.11	21.01	20.98	1
		3	3	N/A	21.01	20.93	21.02	1
		6	0	N/A	21.01	21.05	20.88	2
	16QAM	1	0	N/A	20.77	20.73	20.74	1
		1	2	N/A	20.74	20.77	20.72	1
		1	5	N/A	20.76	20.91	20.61	1
		3	0	N/A	19.99	20.01	19.99	2
		3	2	N/A	19.96	20.09	19.97	2
		3	3	N/A	20.02	20.04	20.01	2
		6	0	N/A	20.08	19.99	19.91	2

LTE-M Band 2		Frequency [MHz]			1860	1880	1900	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	20	Channel Number			18700	18900	19100	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	16QAM	1	0	1	21.65	21.92	21.56	0
		1	0	7	21.68	21.85	21.57	0
		1	5	14	21.70	21.79	21.57	0
		3	0	1	21.72	22.27	21.65	0
		3	0	7	21.79	22.25	21.63	0
		3	3	14	21.77	22.20	21.63	0
		6	0	1	21.72	22.08	21.65	0
		6	0	7	21.77	22.07	21.74	0
		6	0	14	21.78	21.93	22.03	0

LTE-M Band 2		Frequency [MHz]			1857.5	1880	1902.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	15	Channel Number			18675	18900	19125	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	21.98	22.18	22.15	0
		1	0	5	21.93	22.15	22.11	0
		1	5	10	21.88	22.17	22.10	0
		3	0	1	22.12	22.24	22.07	0
		3	0	5	22.10	22.22	22.07	0
		3	3	10	22.02	22.18	22.02	0
		6	0	1	22.12	22.07	21.94	0
		6	0	5	22.08	22.04	21.90	0
		6	0	10	21.97	21.98	21.85	0
	16QAM	1	0	1	22.08	21.94	21.93	0
		1	0	5	22.08	21.90	21.89	0
		1	5	10	22.01	21.86	21.84	0
		3	0	1	22.14	22.26	22.12	0
		3	0	5	22.11	22.25	22.09	0
		3	3	10	22.03	22.20	22.04	0
		6	0	1	22.12	22.10	22.19	0
		6	0	5	22.18	22.07	22.15	0
		6	0	10	22.19	22.02	22.09	0

LTE-M Band 2		Frequency [MHz]			1855	1880	1905	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	10	Channel Number			18650	18900	19150	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	21.74	22.17	22.18	0
		1	2	3	21.94	22.35	22.11	0
		1	5	6	21.93	22.14	22.14	0
		3	0	1	22.09	22.22	22.06	0
		3	2	3	22.02	22.15	22.02	0
		3	3	6	22.06	22.19	22.02	0
		6	0	1	21.14	21.16	21.11	1
		6	0	3	21.08	21.11	21.07	1
		6	0	6	21.08	21.15	21.03	1
	16QAM	1	0	1	22.13	21.84	21.97	0
		1	2	3	22.10	21.89	21.89	0
		1	5	6	22.04	21.84	21.85	0
		3	0	1	22.12	22.21	22.12	0
		3	2	3	22.07	22.19	22.05	0
		3	3	6	22.14	22.16	22.05	0
		6	0	1	21.18	21.12	21.10	2
		6	0	3	21.13	21.07	21.09	2
		6	0	6	21.13	21.04	21.05	2

LTE-M Band 2		Frequency [MHz]			1852.5	1880	1907.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			18625	18900	19175	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.26	22.17	21.72	0
		1	2	1	22.40	22.15	21.88	0
		1	5	2	22.21	22.21	21.89	0
		3	0	Low	21.20	21.12	21.07	1
		3	2	1	21.13	21.06	21.03	1
		3	3	2	21.13	21.08	21.03	1
		6	0	Low	21.13	21.11	20.99	1
		6	0	1	21.10	21.09	20.96	1
		6	0	2	21.07	21.06	20.93	1
	16QAM	1	0	Low	21.89	21.91	22.04	0
		1	2	1	22.07	21.86	22.09	0
		1	5	2	21.99	21.93	21.92	0
		3	0	Low	21.24	21.10	21.04	1
		3	2	1	21.22	21.04	21.01	1
		3	3	2	21.13	20.92	21.01	1
		6	0	Low	20.17	20.23	20.16	2
		6	0	1	20.14	20.19	20.13	2
		6	0	2	20.12	20.17	20.15	2

LTE-M Band 2		Frequency [MHz]			1851.5	1880	1908.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			18615	18900	19185	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	21.95	21.96	22.07	0
		1	0	High	21.91	21.94	22.07	0
		1	5	High	21.98	21.88	22.08	0
		3	0	Low	21.12	21.24	21.16	1
		3	0	High	21.01	21.22	21.13	1
		3	3	High	21.11	21.23	21.16	1
		6	0	Low	20.95	21.18	21.06	2
		6	0	High	20.93	21.15	21.03	2
	16QAM	1	0	Low	21.07	21.09	21.24	1
		1	0	High	21.03	21.08	21.20	1
		1	5	High	20.88	21.03	21.14	1
		3	0	Low	20.00	20.37	20.21	2
		3	0	High	20.17	20.34	20.17	2
		3	3	High	20.19	20.24	20.09	2
		6	0	Low	19.98	20.01	20.14	2
		6	0	High	20.14	19.99	20.12	2

LTE-M Band 2		Frequency [MHz]			1850.7	1880	1909.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			18607	18900	19193	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.17	22.16	21.89	0
		1	2	N/A	22.33	22.32	22.01	0
		1	5	N/A	22.24	22.23	22.06	0
		3	0	N/A	21.08	21.16	21.04	1
		3	2	N/A	21.07	21.15	21.18	1
		3	3	N/A	21.11	21.23	21.05	1
		6	0	N/A	21.00	21.12	21.13	2
	16QAM	1	0	N/A	20.99	21.24	20.95	1
		1	2	N/A	21.29	21.16	21.14	1
		1	5	N/A	21.20	21.17	21.05	1
		3	0	N/A	20.13	20.25	20.33	2
		3	2	N/A	20.11	20.22	20.18	2
		3	3	N/A	20.14	20.16	20.24	2
		6	0	N/A	20.06	20.17	20.08	2

G.2. NTN Conducted Powers

NB NTN Band 23		Frequency [MHz]		2000	2010	2019.9	MPR [dB]
Antenna:	Main						
Bandwidth [kHz]:	200	Channel Number		25500	25600	25699	
Power Level	Modulation	Number of Tones	Start Tone Index	Conducted Powers [dBm]			
Max	BPSK	1	0	21.24	21.27	21.24	
		1	5	21.33	21.40	21.35	0
		1	11	21.28	21.32	21.28	0

NB NTN Band 255		Frequency [MHz]		1626.6	1643.5	1660.4	MPR [dB]
Antenna:	Main						
Bandwidth [kHz]:	200	Channel Number		261505	261674	261843	
Power Level	Modulation	Number of Tones	Start Tone Index	Conducted Powers [dBm]			
Max	BPSK	1	0	21.71	21.92	21.82	
		1	5	21.79	21.92	21.82	0
		1	11	21.84	21.84	21.73	0