

Appendix G: Secondary Mode Conducted Powers

G.1. LTE-M Conducted Powers

LTE-M Band 12		Frequency [MHz]			707.5	MPR [dB]
Antenna:	Main	Channel Number			23095	
Bandwidth [MHz]:	10	Channel Number			23095	
Power Level	Modulation	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]	MPR [dB]
Max	16QAM	1	0	1	22.68	0
		1	2	3	22.71	0
		1	5	6	22.69	0
		3	0	1	22.52	0
		3	2	3	22.48	0
		3	3	6	22.45	0
		6	0	1	21.50	2
		6	0	3	21.49	2
		6	0	6	21.48	2

LTE-M Band 12		Frequency [MHz]			701.5	707.5	713.5	MPR [dB]
Antenna:	Main	Channel Number			23035	23095	23155	
Bandwidth [MHz]:	5	Channel Number			23035	23095	23155	
Power Level	Modulation	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			MPR [dB]
Max	QPSK	1	0	Low	22.36	22.35	22.26	0
		1	2	1	22.38	22.34	22.40	0
		1	5	2	22.39	22.31	22.15	0
		3	0	Low	21.67	21.73	21.77	1
		3	2	1	21.80	21.79	21.74	1
		3	3	2	21.83	21.70	21.78	1
		6	0	Low	21.71	21.76	21.70	1
		6	0	1	21.73	21.70	21.78	1
		6	0	2	21.76	21.67	21.72	1
	16QAM	1	0	Low	22.64	22.49	22.50	0
		1	2	1	22.60	22.53	22.58	0
		1	5	2	22.68	22.36	22.45	0
		3	0	Low	21.78	21.80	21.88	1
		3	2	1	21.79	21.81	21.94	1
		3	3	2	21.80	21.82	21.90	1
		6	0	Low	21.07	21.02	21.01	2
		6	0	1	20.99	21.94	20.93	2
		6	0	2	21.01	21.02	20.96	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.39	22.36	22.36	0
		1	0	High	22.36	22.32	22.29	0
		1	5	High	22.43	22.30	22.40	0
		3	0	Low	21.81	21.68	21.75	1
		3	0	High	21.77	21.65	21.73	1
		3	3	High	21.84	21.83	21.86	1
		6	0	Low	21.22	21.13	21.18	2
		6	0	High	21.29	21.19	21.23	2
	16QAM	1	0	Low	22.09	22.06	21.89	1
		1	0	High	22.21	22.05	21.79	1
		1	5	High	22.16	22.06	21.91	1
		3	0	Low	21.25	21.46	21.58	2
		3	0	High	21.21	21.20	21.19	2
		3	3	High	21.25	21.21	21.40	2
		6	0	Low	21.22	21.06	21.18	2
		6	0	High	21.07	20.94	21.17	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.34	22.38	22.45	0
		1	2	N/A	22.48	22.52	22.41	0
		1	5	N/A	22.43	22.53	22.44	0
		3	0	N/A	21.73	21.82	21.91	1
		3	2	N/A	21.81	21.88	21.89	1
		3	3	N/A	21.94	21.97	21.94	1
		6	0	N/A	21.22	21.23	21.26	2
	16QAM	1	0	N/A	21.93	22.11	22.13	1
		1	2	N/A	21.91	22.08	22.12	1
		1	5	N/A	21.80	22.11	22.03	1
		3	0	N/A	21.33	21.92	21.30	2
		3	2	N/A	21.29	21.26	21.14	2
		3	3	N/A	21.35	21.27	21.18	2
		6	0	N/A	20.84	21.00	21.28	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 Postion	Conducted Powers [dBm]	
Max	16QAM	1	0	1	22.61	0
		1	0	7	22.55	0
		1	5	14	22.50	0
		3	0	1	22.66	0
		3	0	7	22.61	0
		3	3	14	22.59	0
		6	0	1	22.45	0
		6	0	7	22.43	0
		6	0	14	22.42	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.41	22.51	22.43	0
		1	0	5	22.47	22.52	22.40	0
		1	5	10	22.49	22.55	22.34	0
		3	0	1	22.40	22.42	22.13	0
		3	0	5	22.41	22.52	22.36	0
		3	3	10	22.45	22.54	22.37	0
		6	0	1	22.41	22.31	22.52	0
		6	0	5	22.47	22.30	22.45	0
		6	0	10	22.54	22.29	22.28	0
	16QAM	1	0	1	22.34	22.47	22.80	0
		1	0	5	22.41	22.51	22.84	0
		1	5	10	22.38	22.47	22.86	0
		3	0	1	22.34	22.32	22.40	0
		3	0	5	22.35	22.34	22.40	0
		3	3	10	22.36	22.33	22.38	0
		6	0	1	22.21	22.31	22.59	0
		6	0	5	22.22	22.34	22.59	0
		6	0	10	22.24	22.43	22.52	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.35	22.41	22.42	0
		1	2	3	22.42	22.14	22.38	0
		1	5	6	22.30	22.07	22.26	0
		3	0	1	22.39	22.45	22.33	0
		3	2	3	22.22	22.43	22.42	0
		3	3	6	22.15	22.16	22.46	0
		6	0	1	21.98	21.94	21.93	1
		6	0	3	21.89	21.80	21.88	1
		6	0	6	21.99	21.87	21.57	1
	16QAM	1	0	1	22.59	22.51	22.44	0
		1	2	3	22.62	22.59	22.64	0
		1	5	6	22.58	22.44	22.49	0
		3	0	1	22.45	22.54	22.60	0
		3	2	3	22.45	22.57	22.62	0
		3	3	6	22.44	22.59	22.62	0
		6	0	1	21.97	22.00	22.17	2
		6	0	3	21.95	22.21	22.15	2
		6	0	6	21.98	22.23	22.19	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.34	22.37	22.34	0
		1	2	1	22.48	22.38	22.57	0
		1	5	2	22.35	22.39	22.46	0
		3	0	Low	22.32	22.48	22.44	1
		3	2	1	22.36	22.45	22.23	1
		3	3	2	22.26	22.47	22.29	1
		6	0	Low	21.65	21.94	21.98	1
		6	0	1	21.76	21.97	21.77	1
		6	0	2	21.92	21.54	21.75	1
	16QAM	1	0	Low	22.45	22.52	22.55	0
		1	2	1	22.59	22.57	22.61	0
		1	5	2	22.43	22.56	22.48	0
		3	0	Low	21.87	21.93	21.88	1
		3	2	1	21.93	21.88	21.94	1
		3	3	2	21.96	21.95	21.90	1
		6	0	Low	21.16	21.12	21.29	2
		6	0	1	21.06	21.09	21.19	2
		6	0	2	21.04	21.12	21.26	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.19	22.34	22.24	0
		1	0	High	22.17	22.32	22.22	0
		1	5	High	22.15	22.30	22.20	0
		3	0	Low	21.54	21.69	21.59	1
		3	0	High	21.59	21.74	21.64	1
		3	3	High	21.83	21.98	21.88	1
		6	0	Low	21.03	21.18	21.08	2
		6	0	High	21.05	21.20	21.10	2
	16QAM	1	0	Low	22.11	22.05	21.82	1
		1	0	High	22.12	22.08	21.98	1
		1	5	High	21.98	22.03	21.96	1
		3	0	Low	21.39	21.73	21.59	2
		3	0	High	21.46	21.91	21.68	2
		3	3	High	21.49	21.73	21.52	2
		6	0	Low	21.75	21.17	21.66	2
		6	0	High	21.74	21.21	21.82	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.37	22.46	22.47	0
		1	2	N/A	22.33	22.44	22.61	0
		1	5	N/A	22.27	22.32	22.49	0
		3	0	N/A	21.78	21.89	21.97	1
		3	2	N/A	21.82	21.96	22.01	1
		3	3	N/A	21.69	21.91	22.04	1
		6	0	N/A	21.15	21.28	21.29	2
	16QAM	1	0	N/A	22.12	21.95	22.04	1
		1	2	N/A	22.08	21.97	22.01	1
		1	5	N/A	22.10	21.88	21.97	1
		3	0	N/A	21.48	21.45	21.53	2
		3	2	N/A	21.39	21.48	21.51	2
		3	3	N/A	21.41	21.56	21.48	2
		6	0	N/A	21.39	21.46	21.47	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 Postion	Conducted Powers [dBm]			
Max	16QAM	1	0	1	22.56	22.65	22.50	0
		1	0	7	22.52	22.61	22.48	0
		1	5	14	22.46	22.55	22.43	0
		3	0	1	22.55	22.64	22.51	0
		3	0	7	22.54	22.63	22.40	0
		3	3	14	22.52	22.61	22.47	0
		6	0	1	22.69	22.74	22.70	0
		6	0	7	22.81	22.80	22.83	0
		6	0	14	22.73	22.82	22.76	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.68	22.79	22.49	0
		1	0	5	22.70	22.79	22.54	0
		1	5	10	22.59	22.67	22.59	0
		3	0	1	22.73	22.79	22.59	0
		3	0	5	22.76	22.80	22.64	0
		3	3	10	22.74	22.80	22.58	0
		6	0	1	22.68	22.70	22.62	0
		6	0	5	22.73	22.69	22.62	0
		6	0	10	22.66	22.68	22.57	0
	16QAM	1	0	1	22.44	22.59	22.51	0
		1	0	5	22.47	22.62	22.54	0
		1	5	10	22.38	22.53	22.45	0
		3	0	1	22.43	22.58	22.50	0
		3	0	5	22.49	22.64	22.56	0
		3	3	10	22.45	22.60	22.52	0
		6	0	1	22.47	22.51	22.46	0
		6	0	5	22.59	22.55	22.60	0
		6	0	10	22.45	22.49	22.53	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.87	22.52	22.60	0
		1	2	3	22.82	22.62	22.69	0
		1	5	6	22.75	22.56	22.43	0
		3	0	1	22.79	22.68	22.67	0
		3	2	3	22.81	22.67	22.70	0
		3	3	6	22.78	22.72	22.70	0
		6	0	1	22.11	22.20	22.20	1
		6	0	3	22.18	22.23	22.21	1
		6	0	6	22.20	22.06	22.29	1
	16QAM	1	0	1	22.47	22.50	22.54	0
		1	2	3	22.49	22.52	22.56	0
		1	5	6	22.44	22.47	22.51	0
		3	0	1	22.55	22.58	22.62	0
		3	2	3	22.56	22.59	22.63	0
		3	3	6	22.51	22.54	22.58	0
		6	0	1	22.13	22.33	22.30	2
		6	0	3	22.21	22.36	22.48	2
		6	0	6	22.31	22.26	22.40	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.44	22.33	22.29	0
		1	2	1	22.48	22.45	22.51	0
		1	5	2	22.49	22.33	22.30	0
		3	0	Low	22.58	22.44	22.44	1
		3	2	1	22.67	22.53	22.40	1
		3	3	2	22.64	22.46	22.47	1
		6	0	Low	22.47	22.51	22.45	1
		6	0	1	22.44	22.47	22.41	1
		6	0	2	22.47	22.44	22.46	1
	16QAM	1	0	Low	22.34	22.41	22.28	0
		1	2	1	22.48	22.55	22.40	0
		1	5	2	22.27	22.34	22.25	0
		3	0	Low	22.47	22.54	22.45	1
		3	2	1	22.36	22.43	22.48	1
		3	3	2	22.48	22.55	22.51	1
		6	0	Low	22.15	22.17	22.10	2
		6	0	1	22.21	22.30	22.29	2
		6	0	2	22.11	22.19	22.18	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.72	22.68	22.58	0
		1	0	High	22.70	22.66	22.57	0
		1	5	High	22.76	22.61	22.52	0
		3	0	Low	22.20	22.34	22.16	1
		3	0	High	22.31	22.31	22.27	1
		3	3	High	22.37	22.12	22.23	1
		6	0	Low	21.71	21.55	21.74	2
		6	0	High	21.78	21.68	22.08	2
	16QAM	1	0	Low	21.81	21.87	21.83	1
		1	0	High	21.93	21.99	21.95	1
		1	5	High	21.92	21.98	21.94	1
		3	0	Low	20.75	20.81	20.77	2
		3	0	High	20.87	20.93	20.89	2
		3	3	High	20.92	20.98	20.94	2
		6	0	Low	21.75	21.87	21.81	2
		6	0	High	21.83	21.97	21.88	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 Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.64	22.48	22.46	0
		1	2	N/A	22.71	22.60	22.49	0
		1	5	N/A	22.65	22.54	22.33	0
		3	0	N/A	22.17	21.95	21.96	1
		3	2	N/A	22.22	21.89	21.97	1
		3	3	N/A	22.09	22.04	21.99	1
		6	0	N/A	21.43	21.33	21.51	2
	16QAM	1	0	N/A	21.92	21.96	21.87	1
		1	2	N/A	21.85	21.89	21.80	1
		1	5	N/A	21.94	21.98	21.89	1
		3	0	N/A	21.21	21.25	21.16	2
		3	2	N/A	21.26	21.30	21.21	2
		3	3	N/A	21.40	21.44	21.35	2
		6	0	N/A	20.61	20.59	20.63	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	22.52	22.49	22.59	0
		1	5	22.60	22.55	22.51	0
		1	11	22.54	22.48	22.47	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	22.40	22.38	22.40	0
		1	5	22.47	22.43	22.46	0
		1	11	22.33	22.38	22.31	0