

Appendix F-4G Peak-to-average Ratio(PAR)

FCC Part 22H

LTE Band 5, Normal

Mode	Result (dB)	Limit (dB)
10MHz_Low_QPSK_1@0	8.09	13
10MHz_Low_QPSK_50@0	7.80	13
10MHz_Low_16QAM_1@0	8.17	13
10MHz_Low_16QAM_50@0	8.23	13
10MHz_Middle_QPSK_1@0	8.03	13
10MHz_Middle_QPSK_50@0	7.77	13
10MHz_Middle_16QAM_1@0	8.09	13
10MHz_Middle_16QAM_50@0	8.17	13
10MHz_High_QPSK_1@0	7.94	13
10MHz_High_QPSK_50@0	8.41	13
10MHz_High_16QAM_1@0	8	13
10MHz_High_16QAM_50@0	8.26	13

Note: worst case.

LTE B26_2, Normal

Mode	Result (dB)	Limit (dB)
15MHz_Low_QPSK_1@0	5.94	13
15MHz_Low_QPSK_75@0	5.28	13
15MHz_Low_16QAM_1@0	4.93	13
15MHz_Low_16QAM_75@0	5.94	13
15MHz_Middle_QPSK_1@0	4.12	13
15MHz_Middle_QPSK_75@0	5.30	13
15MHz_Middle_16QAM_1@0	4.81	13
15MHz_Middle_16QAM_75@0	6.03	13
15MHz_High_QPSK_1@0	5.07	13
15MHz_High_QPSK_75@0	5.59	13
15MHz_High_16QAM_1@0	6.20	13
15MHz_High_16QAM_75@0	6.20	13

Note: worst case.

FCC Part 24E

LTE Band 2, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	6.67	13
20MHz_Low_QPSK_100@0	6.32	13
20MHz_Low_16QAM_1@0	7.04	13
20MHz_Low_16QAM_100@0	6.90	13
20MHz_Middle_QPSK_1@0	6.35	13
20MHz_Middle_QPSK_100@0	6.43	13
20MHz_Middle_16QAM_1@0	6.90	13
20MHz_Middle_16QAM_100@0	7.04	13
20MHz_High_QPSK_1@0	6.93	13
20MHz_High_QPSK_100@0	6.64	13
20MHz_High_16QAM_1@0	7.36	13
20MHz_High_16QAM_100@0	7.33	13

Note: worst case.

FCC Part 27

LTE Band 4, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	6.46	13
20MHz_Low_QPSK_100@0	6.20	13
20MHz_Low_16QAM_1@0	7.10	13
20MHz_Low_16QAM_100@0	6.84	13
20MHz_Middle_QPSK_1@0	6.09	13
20MHz_Middle_QPSK_100@0	6.17	13
20MHz_Middle_16QAM_1@0	6.64	13
20MHz_Middle_16QAM_100@0	6.78	13
20MHz_High_QPSK_1@0	6.26	13
20MHz_High_QPSK_100@0	6.29	13
20MHz_High_16QAM_1@0	6.64	13
20MHz_High_16QAM_100@0	7.04	13

LTE Band 7, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	6.55	13
20MHz_Low_QPSK_100@0	6.29	13
20MHz_Low_16QAM_1@0	7.01	13
20MHz_Low_16QAM_100@0	7.01	13
20MHz_Middle_QPSK_1@0	6.61	13
20MHz_Middle_QPSK_100@0	6.38	13
20MHz_Middle_16QAM_1@0	7.13	13
20MHz_Middle_16QAM_100@0	6.99	13
20MHz_High_QPSK_1@0	6.75	13
20MHz_High_QPSK_100@0	6.64	13
20MHz_High_16QAM_1@0	7.48	13
20MHz_High_16QAM_100@0	7.07	13

LTE Band 12, Normal

Mode	Result (dB)	Limit (dB)
10MHz_Low_QPSK_1@0	8.12	13
10MHz_Low_QPSK_50@0	8.03	13
10MHz_Low_16QAM_1@0	8.41	13
10MHz_Low_16QAM_50@0	8.38	13
10MHz_Middle_QPSK_1@0	8.23	13
10MHz_Middle_QPSK_50@0	8.12	13
10MHz_Middle_16QAM_1@0	8.49	13
10MHz_Middle_16QAM_50@0	8.14	13
10MHz_High_QPSK_1@0	8.17	13
10MHz_High_QPSK_50@0	7.94	13
10MHz_High_16QAM_1@0	8.43	13
10MHz_High_16QAM_50@0	8.26	13

LTE Band 13, Normal

Mode	Result (dB)	Limit (dB)
10MHz_Middle_QPSK_1@0	4.75	13
10MHz_Middle_QPSK_50@0	5.30	13
10MHz_Middle_16QAM_1@0	5.54	13
10MHz_Middle_16QAM_50@0	6.23	13

LTE Band 17, Normal

Mode	Result (dB)	Limit (dB)
10MHz_Low_QPSK_1@0	8.20	13
10MHz_Low_QPSK_50@0	8.09	13
10MHz_Low_16QAM_1@0	8.38	13
10MHz_Low_16QAM_50@0	8.43	13
10MHz_Middle_QPSK_1@0	8.17	13
10MHz_Middle_QPSK_50@0	8.09	13
10MHz_Middle_16QAM_1@0	8.26	13
10MHz_Middle_16QAM_50@0	8.29	13
10MHz_High_QPSK_1@0	8.20	13
10MHz_High_QPSK_50@0	8	13
10MHz_High_16QAM_1@0	8.29	13
10MHz_High_16QAM_50@0	8.12	13

LTE Band 38, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	9.62	13
20MHz_Low_QPSK_100@0	6.38	13
20MHz_Low_16QAM_1@0	10.70	13
20MHz_Low_16QAM_100@0	9.71	13
20MHz_Middle_QPSK_1@0	9.33	13
20MHz_Middle_QPSK_100@0	10.03	13
20MHz_Middle_16QAM_1@0	7.13	13
20MHz_Middle_16QAM_100@0	6.81	13
20MHz_High_QPSK_1@0	6.17	13
20MHz_High_QPSK_100@0	5.97	13
20MHz_High_16QAM_1@0	6.87	13
20MHz_High_16QAM_100@0	11.30	13

LTE Band 41, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	9.54	13
20MHz_Low_QPSK_100@0	9.33	13
20MHz_Low_16QAM_1@0	10.03	13
20MHz_Low_16QAM_100@0	7.19	13
20MHz_Middle_QPSK_1@0	9.74	13
20MHz_Middle_QPSK_100@0	11.33	13
20MHz_Middle_16QAM_1@0	7.45	13
20MHz_Middle_16QAM_100@0	6.84	13
20MHz_High_QPSK_1@0	8.52	13
20MHz_High_QPSK_100@0	6.06	13
20MHz_High_16QAM_1@0	6.87	13
20MHz_High_16QAM_100@0	12.23	13

LTE Band 66, Normal

Mode	Result (dB)	Limit (dB)
20MHz_Low_QPSK_1@0	5.45	13
20MHz_Low_QPSK_100@0	5.57	13
20MHz_Low_16QAM_1@0	6.32	13
20MHz_Low_16QAM_100@0	6.41	13
20MHz_Middle_QPSK_1@0	5.01	13
20MHz_Middle_QPSK_100@0	5.28	13
20MHz_Middle_16QAM_1@0	6.09	13
20MHz_Middle_16QAM_100@0	6.17	13
20MHz_High_QPSK_1@0	5.48	13
20MHz_High_QPSK_100@0	5.25	13
20MHz_High_16QAM_1@0	6.61	13
20MHz_High_16QAM_100@0	6.17	13

Note: worst case.

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