



Appendix E. Output Power Measurement

<WCDMA Conducted Power>

【WCDMA II】

TX Channel		9262	9400	9538	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	20.02	20.04	20.01	21.00
3GPP Rel 6	HSDPA Subtest-1	18.91	18.96	18.86	20.00
3GPP Rel 6	HSDPA Subtest-2	18.66	18.95	18.78	20.00
3GPP Rel 6	HSDPA Subtest-3	18.38	18.55	18.39	19.50
3GPP Rel 6	HSDPA Subtest-4	18.38	18.48	18.49	19.50
3GPP Rel 6	HSUPA Subtest-1	18.86	18.97	18.78	20.00
3GPP Rel 6	HSUPA Subtest-2	16.87	17.06	16.79	18.00
3GPP Rel 6	HSUPA Subtest-3	17.87	18.16	17.92	19.00
3GPP Rel 6	HSUPA Subtest-4	16.92	17.12	16.94	18.00
3GPP Rel 6	HSUPA Subtest-5	19.07	19.10	18.85	20.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.01	16.08	16.02	17.50

【WCDMA IV】

TX Channel		1312	1413	1513	Tune-up Limit (dBm)
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	19.71	19.75	19.65	20.50
3GPP Rel 6	HSDPA Subtest-1	18.68	18.65	18.60	19.50
3GPP Rel 6	HSDPA Subtest-2	18.47	18.77	18.64	19.50
3GPP Rel 6	HSDPA Subtest-3	17.92	18.30	17.96	19.00
3GPP Rel 6	HSDPA Subtest-4	18.17	18.07	18.13	19.00
3GPP Rel 6	HSUPA Subtest-1	18.45	18.73	18.57	19.50
3GPP Rel 6	HSUPA Subtest-2	16.47	16.71	16.69	17.50
3GPP Rel 6	HSUPA Subtest-3	17.54	17.78	17.70	18.50
3GPP Rel 6	HSUPA Subtest-4	16.47	16.87	16.79	17.50
3GPP Rel 6	HSUPA Subtest-5	18.76	18.81	18.51	19.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.72	15.74	15.71	17.00

【WCDMA V】

TX Channel		4132	4182	4233	Tune-up Limit (dBm)
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	20.96	20.98	20.93	21.50
3GPP Rel 6	HSDPA Subtest-1	19.82	19.93	19.63	20.50
3GPP Rel 6	HSDPA Subtest-2	19.59	19.79	19.74	20.50
3GPP Rel 6	HSDPA Subtest-3	19.28	19.39	19.26	20.00
3GPP Rel 6	HSDPA Subtest-4	19.31	19.42	19.25	20.00
3GPP Rel 6	HSUPA Subtest-1	19.72	19.87	19.62	20.50
3GPP Rel 6	HSUPA Subtest-2	17.72	17.93	17.59	18.50
3GPP Rel 6	HSUPA Subtest-3	18.76	18.86	18.94	19.50
3GPP Rel 6	HSUPA Subtest-4	17.67	18.04	17.81	18.50
3GPP Rel 6	HSUPA Subtest-5	20.01	20.03	19.85	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.83	17.00	16.94	18.00



<LTE Conducted Power>

【LTE Band 2】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.49	19.58	19.51	21.00
20	QPSK	1	49	19.45	19.38	19.45	21.00
20	QPSK	1	99	19.45	19.46	19.40	21.00
20	QPSK	50	0	19.37	19.57	19.43	21.00
20	QPSK	50	24	19.43	19.37	19.38	21.00
20	QPSK	50	50	19.41	19.47	19.42	21.00
20	QPSK	100	0	19.43	19.53	19.46	21.00
20	16QAM	1	0	19.37	19.43	19.32	21.00
20	16QAM	1	49	19.41	19.54	19.42	21.00
20	16QAM	1	99	19.51	19.45	19.39	21.00
20	16QAM	50	0	19.51	19.36	19.43	21.00
20	16QAM	50	24	19.48	19.53	19.42	21.00
20	16QAM	50	50	19.44	19.47	19.44	21.00
20	16QAM	100	0	19.45	19.40	19.43	21.00
20	64QAM	1	0	19.40	19.43	19.44	21.00
20	64QAM	1	49	19.51	19.37	19.39	21.00
20	64QAM	1	99	19.53	19.45	19.45	21.00
20	64QAM	50	0	19.52	19.43	19.52	21.00
20	64QAM	50	24	19.43	19.43	19.51	21.00
20	64QAM	50	50	19.52	19.35	19.40	21.00
20	64QAM	100	0	19.41	19.41	19.53	21.00
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.44	19.48	19.47	21.00
15	QPSK	1	37	19.35	19.27	19.31	21.00
15	QPSK	1	74	19.39	19.36	19.29	21.00
15	QPSK	36	0	19.29	19.47	19.38	21.00
15	QPSK	36	20	19.42	19.25	19.30	21.00
15	QPSK	36	39	19.36	19.34	19.31	21.00
15	QPSK	75	0	19.34	19.41	19.45	21.00
15	16QAM	1	0	19.29	19.30	19.18	21.00
15	16QAM	1	37	19.30	19.44	19.40	21.00
15	16QAM	1	74	19.48	19.35	19.35	21.00
15	16QAM	36	0	19.39	19.25	19.41	21.00
15	16QAM	36	20	19.40	19.50	19.32	21.00
15	16QAM	36	39	19.42	19.39	19.38	21.00
15	16QAM	75	0	19.31	19.27	19.39	21.00
15	64QAM	1	0	19.35	19.35	19.31	21.00
15	64QAM	1	37	19.37	19.32	19.24	21.00
15	64QAM	1	74	19.43	19.33	19.36	21.00
15	64QAM	36	0	19.44	19.32	19.40	21.00
15	64QAM	36	20	19.36	19.33	19.49	21.00
15	64QAM	36	39	19.41	19.21	19.36	21.00
15	64QAM	75	0	19.39	19.34	19.45	21.00
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.47	19.49	19.36	21.00
10	QPSK	1	25	19.33	19.29	19.37	21.00
10	QPSK	1	49	19.34	19.32	19.26	21.00
10	QPSK	25	0	19.33	19.47	19.32	21.00
10	QPSK	25	12	19.31	19.28	19.27	21.00
10	QPSK	25	25	19.37	19.44	19.34	21.00
10	QPSK	50	0	19.32	19.46	19.39	21.00
10	16QAM	1	0	19.33	19.41	19.17	21.00
10	16QAM	1	25	19.31	19.42	19.40	21.00
10	16QAM	1	49	19.49	19.30	19.30	21.00
10	16QAM	25	0	19.36	19.24	19.40	21.00
10	16QAM	25	12	19.42	19.45	19.35	21.00
10	16QAM	25	25	19.29	19.39	19.37	21.00
10	16QAM	50	0	19.30	19.31	19.42	21.00
10	64QAM	1	0	19.38	19.30	19.39	21.00
10	64QAM	1	25	19.49	19.25	19.27	21.00
10	64QAM	1	49	19.49	19.41	19.35	21.00
10	64QAM	25	0	19.44	19.38	19.43	21.00



10	64QAM	25	12	19.33	19.34	19.40	21.00
10	64QAM	25	25	19.51	19.32	19.34	21.00
10	64QAM	50	0	19.29	19.33	19.42	21.00
Channel				18625	18900	19175	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	QPSK	1	0	19.39	19.57	19.36	21.00
5	QPSK	1	12	19.42	19.28	19.43	21.00
5	QPSK	1	24	19.41	19.35	19.38	21.00
5	QPSK	12	0	19.31	19.48	19.41	21.00
5	QPSK	12	7	19.37	19.23	19.23	21.00
5	QPSK	12	13	19.34	19.37	19.40	21.00
5	QPSK	25	0	19.38	19.51	19.33	21.00
5	16QAM	1	0	19.29	19.32	19.25	21.00
5	16QAM	1	12	19.39	19.51	19.39	21.00
5	16QAM	1	24	19.41	19.33	19.32	21.00
5	16QAM	12	0	19.47	19.35	19.32	21.00
5	16QAM	12	7	19.39	19.46	19.40	21.00
5	16QAM	12	13	19.40	19.37	19.39	21.00
5	16QAM	25	0	19.38	19.33	19.34	21.00
5	64QAM	1	0	19.34	19.35	19.33	21.00
5	64QAM	1	12	19.45	19.24	19.31	21.00
5	64QAM	1	24	19.40	19.40	19.36	21.00
5	64QAM	12	0	19.47	19.35	19.41	21.00
5	64QAM	12	7	19.29	19.34	19.49	21.00
5	64QAM	12	13	19.42	19.23	19.38	21.00
5	64QAM	25	0	19.35	19.27	19.45	21.00
Channel				18615	18900	19185	Tune-up limit
Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	19.35	19.52	19.42	21.00
3	QPSK	1	8	19.41	19.28	19.31	21.00
3	QPSK	1	14	19.35	19.39	19.38	21.00
3	QPSK	8	0	19.27	19.43	19.30	21.00
3	QPSK	8	4	19.33	19.24	19.27	21.00
3	QPSK	8	7	19.37	19.41	19.34	21.00
3	QPSK	15	0	19.35	19.43	19.38	21.00
3	16QAM	1	0	19.33	19.28	19.19	21.00
3	16QAM	1	8	19.38	19.49	19.39	21.00
3	16QAM	1	14	19.47	19.32	19.25	21.00
3	16QAM	8	0	19.43	19.22	19.30	21.00
3	16QAM	8	4	19.43	19.42	19.36	21.00
3	16QAM	8	7	19.41	19.35	19.38	21.00
3	16QAM	15	0	19.36	19.33	19.29	21.00
3	64QAM	1	0	19.25	19.37	19.36	21.00
3	64QAM	1	8	19.38	19.30	19.33	21.00
3	64QAM	1	14	19.51	19.39	19.37	21.00
3	64QAM	8	0	19.48	19.29	19.42	21.00
3	64QAM	8	4	19.33	19.42	19.42	21.00
3	64QAM	8	7	19.48	19.27	19.37	21.00
3	64QAM	15	0	19.39	19.39	19.39	21.00
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	19.40	19.52	19.48	21.00
1.4	QPSK	1	3	19.43	19.25	19.40	21.00
1.4	QPSK	1	5	19.31	19.34	19.25	21.00
1.4	QPSK	3	0	19.31	19.53	19.37	21.00
1.4	QPSK	3	1	19.39	19.27	19.32	21.00
1.4	QPSK	3	3	19.29	19.33	19.36	21.00
1.4	QPSK	6	0	19.42	19.39	19.39	21.00
1.4	16QAM	1	0	19.35	19.40	19.18	21.00
1.4	16QAM	1	3	19.31	19.43	19.37	21.00
1.4	16QAM	1	5	19.39	19.42	19.36	21.00
1.4	16QAM	3	0	19.36	19.25	19.39	21.00
1.4	16QAM	3	1	19.45	19.50	19.33	21.00
1.4	16QAM	3	3	19.38	19.36	19.31	21.00
1.4	16QAM	6	0	19.37	19.28	19.32	21.00
1.4	64QAM	1	0	19.38	19.40	19.31	21.00
1.4	64QAM	1	3	19.43	19.32	19.35	21.00
1.4	64QAM	1	5	19.39	19.38	19.37	21.00
1.4	64QAM	3	0	19.50	19.36	19.49	21.00
1.4	64QAM	3	1	19.32	19.35	19.42	21.00
1.4	64QAM	3	3	19.49	19.33	19.26	21.00
1.4	64QAM	6	0	19.29	19.32	19.45	21.00



【LTE Band 4】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.53	19.54	19.49	21.00
20	QPSK	1	49	19.53	19.49	19.48	21.00
20	QPSK	1	99	19.50	19.49	19.52	21.00
20	QPSK	50	0	19.45	19.52	19.45	21.00
20	QPSK	50	24	19.46	19.47	19.56	21.00
20	QPSK	50	50	19.49	19.48	19.48	21.00
20	QPSK	100	0	19.43	19.38	19.49	21.00
20	16QAM	1	0	19.51	19.49	19.45	21.00
20	16QAM	1	49	19.40	19.43	19.41	21.00
20	16QAM	1	99	19.48	19.53	19.42	21.00
20	16QAM	50	0	19.52	19.46	19.48	21.00
20	16QAM	50	24	19.46	19.43	19.39	21.00
20	16QAM	50	50	19.52	19.46	19.44	21.00
20	16QAM	100	0	19.48	19.45	19.53	21.00
20	64QAM	1	0	19.47	19.44	19.48	21.00
20	64QAM	1	49	19.53	19.48	19.47	21.00
20	64QAM	1	99	19.45	19.42	19.46	21.00
20	64QAM	50	0	19.49	19.43	19.45	21.00
20	64QAM	50	24	19.56	19.46	19.39	21.00
20	64QAM	50	50	19.49	19.49	19.39	21.00
20	64QAM	100	0	19.52	19.45	19.49	21.00
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.40	19.49	19.43	21.00
15	QPSK	1	37	19.44	19.43	19.40	21.00
15	QPSK	1	74	19.47	19.46	19.37	21.00
15	QPSK	36	0	19.43	19.43	19.42	21.00
15	QPSK	36	20	19.44	19.36	19.51	21.00
15	QPSK	36	39	19.37	19.37	19.34	21.00
15	QPSK	75	0	19.33	19.36	19.39	21.00
15	16QAM	1	0	19.41	19.36	19.43	21.00
15	16QAM	1	37	19.34	19.42	19.30	21.00
15	16QAM	1	74	19.38	19.39	19.34	21.00
15	16QAM	36	0	19.48	19.33	19.38	21.00
15	16QAM	36	20	19.38	19.34	19.31	21.00
15	16QAM	36	39	19.45	19.44	19.33	21.00
15	16QAM	75	0	19.41	19.43	19.41	21.00
15	64QAM	1	0	19.45	19.41	19.36	21.00
15	64QAM	1	37	19.44	19.45	19.41	21.00
15	64QAM	1	74	19.37	19.30	19.37	21.00
15	64QAM	36	0	19.48	19.41	19.37	21.00
15	64QAM	36	20	19.46	19.32	19.26	21.00
15	64QAM	36	39	19.37	19.48	19.26	21.00
15	64QAM	75	0	19.45	19.39	19.44	21.00
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.48	19.40	19.44	21.00
10	QPSK	1	25	19.43	19.40	19.47	21.00
10	QPSK	1	49	19.44	19.38	19.38	21.00
10	QPSK	25	0	19.37	19.49	19.42	21.00
10	QPSK	25	12	19.41	19.40	19.44	21.00
10	QPSK	25	25	19.47	19.46	19.42	21.00
10	QPSK	50	0	19.40	19.36	19.43	21.00
10	16QAM	1	0	19.36	19.34	19.34	21.00
10	16QAM	1	25	19.35	19.32	19.34	21.00
10	16QAM	1	49	19.46	19.41	19.40	21.00
10	16QAM	25	0	19.37	19.36	19.42	21.00
10	16QAM	25	12	19.43	19.39	19.24	21.00
10	16QAM	25	25	19.43	19.34	19.29	21.00
10	16QAM	50	0	19.37	19.31	19.42	21.00
10	64QAM	1	0	19.44	19.30	19.35	21.00
10	64QAM	1	25	19.40	19.41	19.35	21.00
10	64QAM	1	49	19.32	19.40	19.44	21.00
10	64QAM	25	0	19.38	19.37	19.39	21.00
10	64QAM	25	12	19.47	19.36	19.36	21.00



10	64QAM	25	25	19.43	19.48	19.36	21.00
10	64QAM	50	0	19.50	19.32	19.35	21.00
Channel				19975	20175	20375	Tune-up limit
Frequency (MHz)				1712.5	1732.5	1752.5	(dBm)
5	QPSK	1	0	19.39	19.47	19.43	21.00
5	QPSK	1	12	19.48	19.48	19.46	21.00
5	QPSK	1	24	19.48	19.45	19.40	21.00
5	QPSK	12	0	19.42	19.38	19.36	21.00
5	QPSK	12	7	19.33	19.39	19.49	21.00
5	QPSK	12	13	19.40	19.41	19.34	21.00
5	QPSK	25	0	19.39	19.31	19.40	21.00
5	16QAM	1	0	19.47	19.43	19.42	21.00
5	16QAM	1	12	19.39	19.34	19.36	21.00
5	16QAM	1	24	19.43	19.39	19.29	21.00
5	16QAM	12	0	19.42	19.32	19.41	21.00
5	16QAM	12	7	19.31	19.36	19.32	21.00
5	16QAM	12	13	19.47	19.41	19.32	21.00
5	16QAM	25	0	19.34	19.33	19.43	21.00
5	64QAM	1	0	19.44	19.36	19.37	21.00
5	64QAM	1	12	19.39	19.45	19.37	21.00
5	64QAM	1	24	19.36	19.32	19.37	21.00
5	64QAM	12	0	19.42	19.42	19.36	21.00
5	64QAM	12	7	19.50	19.38	19.33	21.00
5	64QAM	12	13	19.36	19.44	19.29	21.00
5	64QAM	25	0	19.49	19.41	19.38	21.00
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	19.47	19.41	19.38	21.00
3	QPSK	1	8	19.42	19.38	19.41	21.00
3	QPSK	1	14	19.38	19.38	19.46	21.00
3	QPSK	8	0	19.42	19.41	19.34	21.00
3	QPSK	8	4	19.44	19.44	19.52	21.00
3	QPSK	8	7	19.47	19.43	19.37	21.00
3	QPSK	15	0	19.36	19.35	19.43	21.00
3	16QAM	1	0	19.37	19.43	19.32	21.00
3	16QAM	1	8	19.36	19.30	19.29	21.00
3	16QAM	1	14	19.39	19.50	19.31	21.00
3	16QAM	8	0	19.45	19.31	19.39	21.00
3	16QAM	8	4	19.39	19.30	19.34	21.00
3	16QAM	8	7	19.44	19.35	19.30	21.00
3	16QAM	15	0	19.40	19.39	19.42	21.00
3	64QAM	1	0	19.41	19.35	19.40	21.00
3	64QAM	1	8	19.39	19.35	19.44	21.00
3	64QAM	1	14	19.39	19.37	19.32	21.00
3	64QAM	8	0	19.44	19.31	19.32	21.00
3	64QAM	8	4	19.53	19.37	19.28	21.00
3	64QAM	8	7	19.44	19.41	19.37	21.00
3	64QAM	15	0	19.51	19.36	19.41	21.00
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	19.51	19.53	19.47	21.00
1.4	QPSK	1	3	19.46	19.40	19.39	21.00
1.4	QPSK	1	5	19.43	19.40	19.50	21.00
1.4	QPSK	3	0	19.32	19.50	19.40	21.00
1.4	QPSK	3	1	19.41	19.39	19.41	21.00
1.4	QPSK	3	3	19.38	19.42	19.34	21.00
1.4	QPSK	6	0	19.38	19.35	19.34	21.00
1.4	16QAM	1	0	19.49	19.43	19.42	21.00
1.4	16QAM	1	3	19.33	19.34	19.33	21.00
1.4	16QAM	1	5	19.45	19.50	19.39	21.00
1.4	16QAM	3	0	19.45	19.34	19.33	21.00
1.4	16QAM	3	1	19.32	19.34	19.31	21.00
1.4	16QAM	3	3	19.38	19.37	19.36	21.00
1.4	16QAM	6	0	19.39	19.39	19.44	21.00
1.4	64QAM	1	0	19.43	19.41	19.43	21.00
1.4	64QAM	1	3	19.40	19.46	19.44	21.00
1.4	64QAM	1	5	19.39	19.32	19.42	21.00
1.4	64QAM	3	0	19.41	19.40	19.39	21.00
1.4	64QAM	3	1	19.43	19.43	19.31	21.00
1.4	64QAM	3	3	19.35	19.48	19.30	21.00
1.4	64QAM	6	0	19.38	19.35	19.43	21.00



【LTE Band 5】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	22.00
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	20.92	20.95	20.92	22.00
10	QPSK	1	25	20.84	20.79	20.92	22.00
10	QPSK	1	49	20.79	20.85	20.84	22.00
10	QPSK	25	0	20.90	20.90	20.86	22.00
10	QPSK	25	12	20.78	20.85	20.82	22.00
10	QPSK	25	25	20.79	20.75	20.87	22.00
10	QPSK	50	0	20.83	20.81	20.90	22.00
10	16QAM	1	0	20.93	20.87	20.91	22.00
10	16QAM	1	25	20.89	20.85	20.86	22.00
10	16QAM	1	49	20.89	20.85	20.80	22.00
10	16QAM	25	0	20.91	20.83	20.76	22.00
10	16QAM	25	12	20.94	20.83	20.81	22.00
10	16QAM	25	25	20.81	20.84	20.90	22.00
10	16QAM	50	0	20.76	20.93	20.83	22.00
10	64QAM	1	0	20.84	20.83	20.91	22.00
10	64QAM	1	25	20.81	20.82	20.85	22.00
10	64QAM	1	49	20.83	20.84	20.77	22.00
10	64QAM	25	0	19.92	19.87	19.88	21.00
10	64QAM	25	12	19.82	19.83	19.85	21.00
10	64QAM	25	25	19.90	19.82	19.83	21.00
10	64QAM	50	0	19.87	19.81	19.80	21.00
Channel				20425	20525	20625	22.00
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	20.90	20.84	20.82	22.00
5	QPSK	1	12	20.72	20.64	20.79	22.00
5	QPSK	1	24	20.70	20.75	20.80	22.00
5	QPSK	12	0	20.87	20.77	20.76	22.00
5	QPSK	12	7	20.64	20.83	20.71	22.00
5	QPSK	12	13	20.67	20.63	20.74	22.00
5	QPSK	25	0	20.76	20.75	20.87	22.00
5	16QAM	1	0	20.81	20.84	20.82	22.00
5	16QAM	1	12	20.82	20.70	20.73	22.00
5	16QAM	1	24	20.76	20.75	20.66	22.00
5	16QAM	12	0	20.89	20.72	20.74	22.00
5	16QAM	12	7	20.91	20.77	20.75	22.00
5	16QAM	12	13	20.72	20.83	20.84	22.00
5	16QAM	25	0	20.66	20.87	20.69	22.00
5	64QAM	1	0	20.72	20.74	20.87	22.00
5	64QAM	1	12	20.77	20.81	20.84	22.00
5	64QAM	1	24	20.74	20.72	20.70	22.00
5	64QAM	12	0	19.84	19.86	19.77	21.00
5	64QAM	12	7	19.77	19.68	19.73	21.00
5	64QAM	12	13	19.85	19.80	19.82	21.00
5	64QAM	25	0	19.82	19.78	19.72	21.00
Channel				20415	20525	20635	22.00
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	20.81	20.83	20.89	22.00
3	QPSK	1	8	20.78	20.65	20.82	22.00
3	QPSK	1	14	20.67	20.80	20.79	22.00
3	QPSK	8	0	20.76	20.84	20.85	22.00
3	QPSK	8	4	20.69	20.83	20.68	22.00
3	QPSK	8	7	20.64	20.71	20.79	22.00
3	QPSK	15	0	20.76	20.74	20.87	22.00
3	16QAM	1	0	20.90	20.81	20.77	22.00
3	16QAM	1	8	20.77	20.72	20.74	22.00
3	16QAM	1	14	20.79	20.84	20.75	22.00
3	16QAM	8	0	20.87	20.69	20.70	22.00
3	16QAM	8	4	20.87	20.76	20.71	22.00
3	16QAM	8	7	20.79	20.80	20.88	22.00
3	16QAM	15	0	20.71	20.79	20.80	22.00
3	64QAM	1	0	20.75	20.73	20.89	22.00
3	64QAM	1	8	20.80	20.78	20.80	22.00
3	64QAM	1	14	20.79	20.77	20.67	22.00
3	64QAM	8	0	19.80	19.81	19.82	21.00
3	64QAM	8	4	19.81	19.74	19.80	21.00
3	64QAM	8	7	19.75	19.69	19.76	21.00



3	64QAM	15	0	19.84	19.78	19.73	21.00
Channel				20407	20525	20643	Tune-up limit
Frequency (MHz)				824.7	836.5	848.3	(dBm)
1.4	QPSK	1	0	20.77	20.81	20.81	22.00
1.4	QPSK	1	3	20.82	20.67	20.82	22.00
1.4	QPSK	1	5	20.77	20.76	20.70	22.00
1.4	QPSK	3	0	20.86	20.88	20.78	22.00
1.4	QPSK	3	1	20.77	20.75	20.77	22.00
1.4	QPSK	3	3	20.75	20.63	20.82	22.00
1.4	QPSK	6	0	19.72	19.68	19.86	21.00
1.4	16QAM	1	0	19.87	19.77	19.85	21.00
1.4	16QAM	1	3	19.88	19.81	19.83	21.00
1.4	16QAM	1	5	19.80	19.71	19.65	21.00
1.4	16QAM	3	0	19.79	19.74	19.62	21.00
1.4	16QAM	3	1	19.83	19.72	19.73	21.00
1.4	16QAM	3	3	19.67	19.80	19.75	21.00
1.4	16QAM	6	0	18.62	18.87	18.78	20.00
1.4	64QAM	1	0	18.79	18.77	18.85	20.00
1.4	64QAM	1	3	18.67	18.75	18.83	20.00
1.4	64QAM	1	5	18.68	18.82	18.70	20.00
1.4	64QAM	3	0	18.79	18.81	18.78	20.00
1.4	64QAM	3	1	18.70	18.76	18.75	20.00
1.4	64QAM	3	3	18.84	18.78	18.71	20.00
1.4	64QAM	6	0	17.80	17.79	17.78	19.00

【LTE Band 7】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	21.91	21.95	21.85	23.00
20	QPSK	1	49	21.91	21.84	21.84	23.00
20	QPSK	1	99	21.81	21.89	21.79	23.00
20	QPSK	50	0	21.88	21.94	21.79	23.00
20	QPSK	50	24	21.88	21.84	21.86	23.00
20	QPSK	50	50	21.82	21.86	21.88	23.00
20	QPSK	100	0	21.82	21.89	21.87	23.00
20	16QAM	1	0	21.89	21.85	21.86	23.00
20	16QAM	1	49	21.86	21.86	21.85	23.00
20	16QAM	1	99	21.84	21.89	21.88	23.00
20	16QAM	50	0	20.86	20.86	20.85	22.00
20	16QAM	50	24	20.82	20.87	20.81	22.00
20	16QAM	50	50	20.81	20.88	20.87	22.00
20	16QAM	100	0	20.90	20.84	20.83	22.00
20	64QAM	1	0	20.82	20.91	20.83	22.00
20	64QAM	1	49	20.89	20.90	20.89	22.00
20	64QAM	1	99	20.82	20.82	20.90	22.00
20	64QAM	50	0	19.83	19.89	19.82	21.00
20	64QAM	50	24	19.85	19.85	19.85	21.00
20	64QAM	50	50	19.86	19.83	19.81	21.00
20	64QAM	100	0	19.80	19.80	19.79	21.00
Channel				20825	21100	21375	Tune-up limit
Frequency (MHz)				2507.5	2535	2562.5	(dBm)
15	QPSK	1	0	21.90	21.93	21.79	23.00
15	QPSK	1	37	21.77	21.77	21.70	23.00
15	QPSK	1	74	21.73	21.78	21.71	23.00
15	QPSK	36	0	21.74	21.90	21.70	23.00
15	QPSK	36	20	21.76	21.73	21.72	23.00
15	QPSK	36	39	21.72	21.81	21.87	23.00
15	QPSK	75	0	21.78	21.76	21.82	23.00
15	16QAM	1	0	21.81	21.76	21.79	23.00
15	16QAM	1	37	21.75	21.79	21.83	23.00
15	16QAM	1	74	21.79	21.77	21.76	23.00
15	16QAM	36	0	20.71	20.76	20.75	22.00
15	16QAM	36	20	20.69	20.85	20.80	22.00
15	16QAM	36	39	20.74	20.82	20.80	22.00
15	16QAM	75	0	20.81	20.70	20.70	22.00
15	64QAM	1	0	20.78	20.80	20.81	22.00
15	64QAM	1	37	20.84	20.83	20.83	22.00



15	64QAM	1	74	20.72	20.71	20.77	22.00
15	64QAM	36	0	19.69	19.79	19.78	21.00
15	64QAM	36	20	19.76	19.76	19.74	21.00
15	64QAM	36	39	19.71	19.77	19.68	21.00
15	64QAM	75	0	19.78	19.71	19.70	21.00
Channel				20800	21100	21400	Tune-up limit
Frequency (MHz)				2505	2535	2565	(dBm)
10	QPSK	1	0	21.79	21.82	21.82	23.00
10	QPSK	1	25	21.79	21.82	21.72	23.00
10	QPSK	1	49	21.77	21.78	21.70	23.00
10	QPSK	25	0	21.83	21.87	21.66	23.00
10	QPSK	25	12	21.75	21.74	21.83	23.00
10	QPSK	25	25	21.81	21.80	21.73	23.00
10	QPSK	50	0	21.77	21.80	21.77	23.00
10	16QAM	1	0	21.85	21.77	21.74	23.00
10	16QAM	1	25	21.80	21.77	21.82	23.00
10	16QAM	1	49	21.82	21.75	21.80	23.00
10	16QAM	25	0	20.74	20.73	20.74	22.00
10	16QAM	25	12	20.69	20.85	20.79	22.00
10	16QAM	25	25	20.72	20.77	20.83	22.00
10	16QAM	50	0	20.87	20.73	20.81	22.00
10	64QAM	1	0	20.75	20.78	20.74	22.00
10	64QAM	1	25	20.78	20.76	20.75	22.00
10	64QAM	1	49	20.69	20.72	20.89	22.00
10	64QAM	25	0	19.71	19.87	19.76	21.00
10	64QAM	25	12	19.73	19.82	19.82	21.00
10	64QAM	25	25	19.79	19.79	19.73	21.00
10	64QAM	50	0	19.75	19.71	19.68	21.00
Channel				20775	21100	21425	Tune-up limit
Frequency (MHz)				2502.5	2535	2567.5	(dBm)
5	QPSK	1	0	21.77	21.87	21.78	23.00
5	QPSK	1	12	21.85	21.78	21.79	23.00
5	QPSK	1	24	21.66	21.86	21.68	23.00
5	QPSK	12	0	21.74	21.89	21.74	23.00
5	QPSK	12	7	21.79	21.80	21.75	23.00
5	QPSK	12	13	21.73	21.79	21.81	23.00
5	QPSK	25	0	21.67	21.80	21.80	23.00
5	16QAM	1	0	21.84	21.83	21.79	23.00
5	16QAM	1	12	21.72	21.85	21.74	23.00
5	16QAM	1	24	21.80	21.79	21.84	23.00
5	16QAM	12	0	20.77	20.76	20.79	22.00
5	16QAM	12	7	20.69	20.75	20.73	22.00
5	16QAM	12	13	20.68	20.82	20.79	22.00
5	16QAM	25	0	20.81	20.80	20.72	22.00
5	64QAM	1	0	20.74	20.87	20.72	22.00
5	64QAM	1	12	20.81	20.85	20.76	22.00
5	64QAM	1	24	20.71	20.74	20.83	22.00
5	64QAM	12	0	19.73	19.87	19.68	21.00
5	64QAM	12	7	19.81	19.80	19.72	21.00
5	64QAM	12	13	19.80	19.75	19.74	21.00
5	64QAM	25	0	19.72	19.69	19.73	21.00



【LTE Band 12】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	24.00
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.83	23.15	22.76	24.00
10	QPSK	1	25	22.75	23.03	22.66	24.00
10	QPSK	1	49	22.68	22.98	22.55	24.00
10	QPSK	25	0	21.67	21.99	21.67	23.00
10	QPSK	25	12	21.65	21.96	21.57	23.00
10	QPSK	25	25	21.60	21.85	21.45	23.00
10	QPSK	50	0	21.63	21.88	21.59	23.00
10	16QAM	1	0	21.39	21.70	21.32	23.00
10	16QAM	1	25	21.51	21.86	21.53	23.00
10	16QAM	1	49	21.65	21.94	21.53	23.00
10	16QAM	25	0	20.62	20.95	20.63	22.00
10	16QAM	25	12	20.71	20.98	20.65	22.00
10	16QAM	25	25	20.43	20.73	20.44	22.00
10	16QAM	50	0	20.54	20.86	20.54	22.00
10	64QAM	1	0	20.34	20.61	20.29	22.00
10	64QAM	1	25	20.72	20.99	20.71	22.00
10	64QAM	1	49	20.55	20.85	20.47	22.00
10	64QAM	25	0	19.63	19.96	19.65	21.00
10	64QAM	25	12	19.85	20.11	19.82	21.00
10	64QAM	25	25	19.63	19.84	19.55	21.00
10	64QAM	50	0	19.51	19.75	19.42	21.00
Channel				23035	23095	23115	24.00
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.81	22.92	22.69	24.00
5	QPSK	1	12	22.63	22.94	22.58	24.00
5	QPSK	1	24	22.57	22.96	22.41	24.00
5	QPSK	12	0	21.64	21.96	21.61	23.00
5	QPSK	12	7	21.51	21.84	21.54	23.00
5	QPSK	12	13	21.49	21.72	21.42	23.00
5	QPSK	25	0	21.51	21.83	21.48	23.00
5	16QAM	1	0	21.26	21.63	21.29	23.00
5	16QAM	1	12	21.46	21.78	21.45	23.00
5	16QAM	1	24	21.51	21.88	21.44	23.00
5	16QAM	12	0	20.47	20.81	20.50	22.00
5	16QAM	12	7	20.66	20.84	20.52	22.00
5	16QAM	12	13	20.38	20.61	20.31	22.00
5	16QAM	25	0	20.51	20.79	20.42	22.00
5	64QAM	1	0	20.25	20.48	20.23	22.00
5	64QAM	1	12	20.59	20.91	20.68	22.00
5	64QAM	1	24	20.48	20.79	20.38	22.00
5	64QAM	12	0	19.56	19.83	19.57	21.00
5	64QAM	12	7	19.76	20.01	19.79	21.00
5	64QAM	12	13	19.58	19.82	19.47	21.00
5	64QAM	25	0	19.44	19.65	19.39	21.00
Channel				23025	23095	23165	24.00
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.76	22.96	22.64	24.00
3	QPSK	1	8	22.69	22.93	22.60	24.00
3	QPSK	1	14	22.57	22.95	22.43	24.00
3	QPSK	8	0	21.53	21.98	21.59	23.00
3	QPSK	8	4	21.51	21.89	21.45	23.00
3	QPSK	8	7	21.51	21.81	21.33	23.00
3	QPSK	15	0	21.54	21.77	21.52	23.00
3	16QAM	1	0	21.30	21.56	21.19	23.00
3	16QAM	1	8	21.50	21.78	21.39	23.00
3	16QAM	1	14	21.59	21.93	21.47	23.00
3	16QAM	8	0	20.51	20.81	20.56	22.00
3	16QAM	8	4	20.66	20.88	20.58	22.00
3	16QAM	8	7	20.39	20.71	20.39	22.00
3	16QAM	15	0	20.48	20.73	20.40	22.00
3	64QAM	1	0	20.29	20.58	20.16	22.00
3	64QAM	1	8	20.58	20.96	20.69	22.00
3	64QAM	1	14	20.47	20.81	20.36	22.00
3	64QAM	8	0	19.59	19.83	19.53	21.00
3	64QAM	8	4	19.80	20.10	19.80	21.00
3	64QAM	8	7	19.56	19.80	19.49	21.00
3	64QAM	15	0	19.41	19.68	19.34	21.00



Channel				23017	23095	23173	Tune-up limit
Frequency (MHz)				699.7	707.5	715.3	(dBm)
1.4	QPSK	1	0	22.76	22.92	22.74	24.00
1.4	QPSK	1	3	22.62	22.94	22.56	24.00
1.4	QPSK	1	5	22.58	22.84	22.45	24.00
1.4	QPSK	3	0	22.59	22.92	22.64	24.00
1.4	QPSK	3	1	22.50	22.90	22.46	24.00
1.4	QPSK	3	3	22.49	22.82	22.35	24.00
1.4	QPSK	6	0	21.55	21.75	21.52	23.00
1.4	16QAM	1	0	21.29	21.56	21.22	23.00
1.4	16QAM	1	3	21.37	21.71	21.49	23.00
1.4	16QAM	1	5	21.53	21.92	21.43	23.00
1.4	16QAM	3	0	21.50	21.88	21.49	23.00
1.4	16QAM	3	1	21.61	21.94	21.57	23.00
1.4	16QAM	3	3	21.36	21.59	21.29	23.00
1.4	16QAM	6	0	20.52	20.75	20.49	22.00
1.4	64QAM	1	0	20.20	20.51	20.19	22.00
1.4	64QAM	1	3	20.61	20.84	20.70	22.00
1.4	64QAM	1	5	20.48	20.77	20.32	22.00
1.4	64QAM	3	0	20.56	20.81	20.53	22.00
1.4	64QAM	3	1	20.74	21.05	20.70	22.00
1.4	64QAM	3	3	20.61	20.77	20.52	22.00
1.4	64QAM	6	0	19.47	19.72	19.30	21.00

【LTE Band 13】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		22.11		23.00
10	QPSK	1	25		22.05		23.00
10	QPSK	1	49		22.06		23.00
10	QPSK	25	0		22.08		23.00
10	QPSK	25	12		22.04		23.00
10	QPSK	25	25		22.03		23.00
10	QPSK	50	0		22.01		23.00
10	16QAM	1	0		22.05		23.00
10	16QAM	1	25		22.03		23.00
10	16QAM	1	49		22.01		23.00
10	16QAM	25	0		21.05		22.00
10	16QAM	25	12		21.03		22.00
10	16QAM	25	25		21.05		22.00
10	16QAM	50	0		21.02		22.00
10	64QAM	1	0		21.03		22.00
10	64QAM	1	25		21.08		22.00
10	64QAM	1	49		21.03		22.00
10	64QAM	25	0		20.04		21.00
10	64QAM	25	12		20.06		21.00
10	64QAM	25	25		20.04		21.00
10	64QAM	50	0		20.04		21.00
Channel				23205	23230	23255	Tune-up limit
Frequency (MHz)				779.5	782	784.5	(dBm)
5	QPSK	1	0	21.95	21.97	22.01	23.00
5	QPSK	1	12	21.86	21.84	21.89	23.00
5	QPSK	1	24	21.94	21.96	21.87	23.00
5	QPSK	12	0	21.99	21.88	21.89	23.00
5	QPSK	12	7	21.88	21.91	21.94	23.00
5	QPSK	12	13	21.84	21.90	21.92	23.00
5	QPSK	25	0	21.84	21.84	21.83	23.00
5	16QAM	1	0	21.84	21.92	21.92	23.00
5	16QAM	1	12	21.91	21.83	21.83	23.00
5	16QAM	1	24	21.92	21.80	21.89	23.00
5	16QAM	12	0	20.89	20.86	20.90	22.00
5	16QAM	12	7	20.89	20.89	20.88	22.00
5	16QAM	12	13	20.86	20.90	20.87	22.00
5	16QAM	25	0	20.93	20.89	20.81	22.00
5	64QAM	1	0	20.91	20.84	20.91	22.00
5	64QAM	1	12	20.95	20.88	20.93	22.00
5	64QAM	1	24	20.93	20.83	20.85	22.00
5	64QAM	12	0	19.93	19.93	19.85	21.00
5	64QAM	12	7	19.92	19.86	19.86	21.00

5	64QAM	12	13	19.88	19.85	19.91	21.00
5	64QAM	25	0	19.85	19.92	19.89	21.00

<LTE Band 14_Ant 0_Full Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Limit (dBm)
Channel					23330		
Frequency (MHz)					793		
10	QPSK	1	0		22.05		23
10		1	25		21.82		23
10		1	49		21.82		23
10		25	0		22.04		23
10		25	12		21.91		23
10		25	25		21.89		23
10	16QAM	50	0		22.03		23
10		1	0		21.92		23
10		1	25		21.82		23
10		1	49		21.88		23
10		25	0		20.86		22
10		25	12		20.79		22
10	64QAM	25	25		20.84		22
10		50	0		20.79		22
10		1	0		20.87		22
10		1	25		20.87		22
10		1	49		20.81		22
10		25	0		19.80		21
10	64QAM	25	12		19.85		21
10		25	25		19.88		21
10		50	0		19.84		21
Channel				23305	23330	23355	Tune-up Limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	21.93	21.94	22.00	23
5		1	12	21.78	21.70	21.75	23
5		1	24	21.74	21.72	21.78	23
5		12	0	21.95	22.00	21.92	23
5		12	7	21.87	21.84	21.84	23
5		12	13	21.79	21.82	21.82	23
5	16QAM	25	0	21.73	21.73	21.75	23
5		1	0	21.81	21.81	21.87	23
5		1	12	21.72	21.68	21.75	23
5		1	24	21.81	21.79	21.81	23
5		12	0	20.71	20.82	20.72	22
5		12	7	20.65	20.75	20.75	22
5	64QAM	12	13	20.74	20.71	20.76	22
5		25	0	20.65	20.69	20.75	22
5		1	0	20.78	20.76	20.73	22
5		1	12	20.77	20.72	20.80	22
5		1	24	20.74	20.77	20.70	22
5		12	0	19.72	19.65	19.67	21
5	64QAM	12	7	19.72	19.73	19.75	21
5		12	13	19.79	19.77	19.84	21
5		25	0	19.76	19.74	19.75	21

【LTE Band 17】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.01	23.12	22.91	24.00
10	QPSK	1	25	22.91	23.09	22.77	24.00
10	QPSK	1	49	22.80	23.04	22.76	24.00
10	QPSK	25	0	21.94	22.14	21.87	23.00
10	QPSK	25	12	22.04	22.23	21.98	23.00
10	QPSK	25	25	21.86	22.08	21.77	23.00
10	QPSK	50	0	21.98	22.23	21.97	23.00
10	16QAM	1	0	21.86	22.03	21.78	23.00
10	16QAM	1	25	21.95	22.10	21.79	23.00
10	16QAM	1	49	21.94	22.07	21.79	23.00
10	16QAM	25	0	21.00	21.14	20.87	22.00
10	16QAM	25	12	20.95	21.09	20.85	22.00
10	16QAM	25	25	21.04	21.18	20.92	22.00
10	16QAM	50	0	21.02	21.17	20.93	22.00
10	64QAM	1	0	20.80	21.03	20.70	22.00
10	64QAM	1	25	21.10	21.25	20.98	22.00
10	64QAM	1	49	20.97	21.09	20.88	22.00
10	64QAM	25	0	20.02	20.15	19.86	21.00
10	64QAM	25	12	19.93	20.10	19.78	21.00
10	64QAM	25	25	19.86	20.07	19.77	21.00
10	64QAM	50	0	19.95	20.16	19.84	21.00
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.90	23.06	22.89	24.00
5	QPSK	1	12	22.87	23.05	22.63	24.00
5	QPSK	1	24	22.71	23.01	22.73	24.00
5	QPSK	12	0	21.91	22.12	21.76	23.00
5	QPSK	12	7	22.00	22.08	21.85	23.00
5	QPSK	12	13	21.77	21.99	21.67	23.00
5	QPSK	25	0	21.85	22.19	21.86	23.00
5	16QAM	1	0	21.77	21.94	21.76	23.00
5	16QAM	1	12	21.89	22.06	21.69	23.00
5	16QAM	1	24	21.93	22.00	21.74	23.00
5	16QAM	12	0	20.91	21.04	20.73	22.00
5	16QAM	12	7	20.85	21.06	20.78	22.00
5	16QAM	12	13	20.98	21.10	20.81	22.00
5	16QAM	25	0	20.98	21.14	20.87	22.00
5	64QAM	1	0	20.77	20.88	20.69	22.00
5	64QAM	1	12	21.00	21.11	20.86	22.00
5	64QAM	1	24	20.91	21.03	20.77	22.00
5	64QAM	12	0	19.90	20.02	19.82	21.00
5	64QAM	12	7	19.86	20.02	19.72	21.00
5	64QAM	12	13	19.82	19.93	19.63	21.00
5	64QAM	25	0	19.90	20.09	19.81	21.00



【LTE Band 25】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	19.59	19.68	19.62	21.00
20	QPSK	1	49	19.64	19.59	19.64	21.00
20	QPSK	1	99	19.59	19.63	19.55	21.00
20	QPSK	50	0	19.57	19.66	19.61	21.00
20	QPSK	50	24	19.57	19.56	19.58	21.00
20	QPSK	50	50	19.55	19.64	19.56	21.00
20	QPSK	100	0	19.64	19.62	19.62	21.00
20	16QAM	1	0	19.54	19.59	19.53	21.00
20	16QAM	1	49	19.55	19.65	19.54	21.00
20	16QAM	1	99	19.60	19.55	19.57	21.00
20	16QAM	50	0	19.65	19.57	19.53	21.00
20	16QAM	50	24	19.63	19.63	19.57	21.00
20	16QAM	50	50	19.56	19.62	19.56	21.00
20	16QAM	100	0	19.56	19.59	19.60	21.00
20	64QAM	1	0	19.56	19.61	19.54	21.00
20	64QAM	1	49	19.64	19.58	19.58	21.00
20	64QAM	1	99	19.63	19.59	19.61	21.00
20	64QAM	50	0	19.65	19.56	19.63	21.00
20	64QAM	50	24	19.54	19.58	19.62	21.00
20	64QAM	50	50	19.64	19.55	19.56	21.00
20	64QAM	100	0	19.56	19.55	19.64	21.00
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	19.46	19.54	19.49	21.00
15	QPSK	1	37	19.60	19.53	19.55	21.00
15	QPSK	1	74	19.57	19.57	19.45	21.00
15	QPSK	36	0	19.44	19.54	19.55	21.00
15	QPSK	36	20	19.42	19.43	19.57	21.00
15	QPSK	36	39	19.40	19.62	19.48	21.00
15	QPSK	75	0	19.51	19.59	19.52	21.00
15	16QAM	1	0	19.40	19.48	19.40	21.00
15	16QAM	1	37	19.53	19.59	19.46	21.00
15	16QAM	1	74	19.50	19.45	19.53	21.00
15	16QAM	36	0	19.50	19.42	19.47	21.00
15	16QAM	36	20	19.57	19.55	19.44	21.00
15	16QAM	36	39	19.54	19.53	19.49	21.00
15	16QAM	75	0	19.41	19.54	19.49	21.00
15	64QAM	1	0	19.45	19.54	19.43	21.00
15	64QAM	1	37	19.63	19.53	19.44	21.00
15	64QAM	1	74	19.60	19.51	19.57	21.00
15	64QAM	36	0	19.60	19.46	19.57	21.00
15	64QAM	36	20	19.46	19.46	19.60	21.00
15	64QAM	36	39	19.62	19.49	19.47	21.00
15	64QAM	75	0	19.42	19.46	19.60	21.00
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	19.49	19.66	19.61	21.00
10	QPSK	1	25	19.57	19.48	19.59	21.00
10	QPSK	1	49	19.58	19.53	19.53	21.00
10	QPSK	25	0	19.48	19.62	19.57	21.00
10	QPSK	25	12	19.45	19.50	19.49	21.00
10	QPSK	25	25	19.52	19.54	19.52	21.00
10	QPSK	50	0	19.58	19.49	19.57	21.00
10	16QAM	1	0	19.50	19.50	19.51	21.00
10	16QAM	1	25	19.50	19.55	19.43	21.00
10	16QAM	1	49	19.46	19.43	19.50	21.00
10	16QAM	25	0	19.63	19.48	19.46	21.00
10	16QAM	25	12	19.49	19.55	19.44	21.00
10	16QAM	25	25	19.42	19.53	19.44	21.00
10	16QAM	50	0	19.47	19.55	19.54	21.00
10	64QAM	1	0	19.52	19.54	19.52	21.00
10	64QAM	1	25	19.56	19.54	19.50	21.00
10	64QAM	1	49	19.55	19.51	19.49	21.00
10	64QAM	25	0	19.51	19.42	19.55	21.00
10	64QAM	25	12	19.41	19.54	19.48	21.00
10	64QAM	25	25	19.61	19.47	19.54	21.00
10	64QAM	50	0	19.45	19.53	19.57	21.00



Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	19.52	19.61	19.56	21.00
5	QPSK	1	12	19.57	19.54	19.63	21.00
5	QPSK	1	24	19.54	19.58	19.42	21.00
5	QPSK	12	0	19.55	19.63	19.48	21.00
5	QPSK	12	7	19.51	19.48	19.51	21.00
5	QPSK	12	13	19.46	19.61	19.52	21.00
5	QPSK	25	0	19.60	19.51	19.59	21.00
5	16QAM	1	0	19.41	19.46	19.47	21.00
5	16QAM	1	12	19.49	19.63	19.41	21.00
5	16QAM	1	24	19.53	19.51	19.55	21.00
5	16QAM	12	0	19.59	19.45	19.47	21.00
5	16QAM	12	7	19.51	19.56	19.54	21.00
5	16QAM	12	13	19.50	19.52	19.55	21.00
5	16QAM	25	0	19.44	19.52	19.52	21.00
5	64QAM	1	0	19.47	19.59	19.43	21.00
5	64QAM	1	12	19.56	19.52	19.55	21.00
5	64QAM	1	24	19.58	19.50	19.52	21.00
5	64QAM	12	0	19.52	19.48	19.57	21.00
5	64QAM	12	7	19.49	19.46	19.56	21.00
5	64QAM	12	13	19.55	19.53	19.43	21.00
5	64QAM	25	0	19.46	19.49	19.58	21.00
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	19.49	19.65	19.49	21.00
3	QPSK	1	8	19.52	19.50	19.52	21.00
3	QPSK	1	14	19.47	19.51	19.49	21.00
3	QPSK	8	0	19.53	19.64	19.52	21.00
3	QPSK	8	4	19.51	19.49	19.45	21.00
3	QPSK	8	7	19.43	19.54	19.48	21.00
3	QPSK	15	0	19.59	19.51	19.59	21.00
3	16QAM	1	0	19.42	19.56	19.42	21.00
3	16QAM	1	8	19.49	19.59	19.40	21.00
3	16QAM	1	14	19.56	19.47	19.51	21.00
3	16QAM	8	0	19.61	19.54	19.40	21.00
3	16QAM	8	4	19.51	19.49	19.47	21.00
3	16QAM	8	7	19.51	19.60	19.50	21.00
3	16QAM	15	0	19.52	19.52	19.57	21.00
3	64QAM	1	0	19.42	19.59	19.45	21.00
3	64QAM	1	8	19.54	19.48	19.47	21.00
3	64QAM	1	14	19.59	19.48	19.59	21.00
3	64QAM	8	0	19.55	19.48	19.61	21.00
3	64QAM	8	4	19.39	19.44	19.56	21.00
3	64QAM	8	7	19.58	19.46	19.41	21.00
3	64QAM	15	0	19.43	19.43	19.58	21.00
Channel				26047	26340	26683	Tune-up limit
Frequency (MHz)				1850.7	1880	1914.3	(dBm)
1.4	QPSK	1	0	19.50	19.54	19.55	21.00
1.4	QPSK	1	3	19.57	19.47	19.61	21.00
1.4	QPSK	1	5	19.47	19.57	19.47	21.00
1.4	QPSK	3	0	19.53	19.63	19.54	21.00
1.4	QPSK	3	1	19.44	19.53	19.53	21.00
1.4	QPSK	3	3	19.43	19.62	19.49	21.00
1.4	QPSK	6	0	18.55	18.47	18.54	20.00
1.4	16QAM	1	0	18.48	18.48	18.50	20.00
1.4	16QAM	1	3	18.41	18.60	18.52	20.00
1.4	16QAM	1	5	18.59	18.45	18.43	20.00
1.4	16QAM	3	0	18.54	18.48	18.42	20.00
1.4	16QAM	3	1	18.57	18.52	18.47	20.00
1.4	16QAM	3	3	18.54	18.48	18.45	20.00
1.4	16QAM	6	0	17.44	17.44	17.49	19.00
1.4	64QAM	1	0	17.55	17.60	17.52	19.00
1.4	64QAM	1	3	17.58	17.50	17.47	19.00
1.4	64QAM	1	5	17.51	17.52	17.59	19.00
1.4	64QAM	3	0	17.61	17.53	17.55	19.00
1.4	64QAM	3	1	17.48	17.54	17.55	19.00
1.4	64QAM	3	3	17.52	17.48	17.50	19.00
1.4	64QAM	6	0	16.44	16.53	16.50	18.00



【LTE Band 26_FCC (814~849MHz)】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	21.10	21.13	21.11	22.00
15	QPSK	1	37	21.07	21.02	21.07	22.00
15	QPSK	1	74	21.00	21.04	21.03	22.00
15	QPSK	36	0	21.06	21.07	21.05	22.00
15	QPSK	36	20	21.01	21.06	21.01	22.00
15	QPSK	36	39	21.03	20.98	21.09	22.00
15	QPSK	75	0	21.04	21.03	21.07	22.00
15	16QAM	1	0	21.07	21.07	21.05	22.00
15	16QAM	1	37	21.08	21.06	21.08	22.00
15	16QAM	1	74	21.08	21.05	21.00	22.00
15	16QAM	36	0	21.07	21.07	21.00	22.00
15	16QAM	36	20	21.09	21.02	21.02	22.00
15	16QAM	36	39	21.00	21.05	21.07	22.00
15	16QAM	75	0	21.00	21.08	21.07	22.00
15	64QAM	1	0	20.99	21.05	21.06	22.00
15	64QAM	1	37	21.04	20.99	21.05	22.00
15	64QAM	1	74	21.00	20.99	21.00	22.00
15	64QAM	36	0	20.09	20.07	20.03	21.00
15	64QAM	36	20	20.06	20.09	20.01	21.00
15	64QAM	36	39	20.06	20.04	19.98	21.00
15	64QAM	75	0	20.05	20.00	20.06	21.00
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.06	21.10	21.10	22.00
10	QPSK	1	25	21.01	20.96	21.01	22.00
10	QPSK	1	49	20.98	20.95	20.91	22.00
10	QPSK	25	0	20.96	21.03	21.02	22.00
10	QPSK	25	12	20.86	21.02	20.90	22.00
10	QPSK	25	25	20.98	20.86	21.05	22.00
10	QPSK	50	0	20.98	21.01	21.01	22.00
10	16QAM	1	0	21.06	20.97	21.02	22.00
10	16QAM	1	25	20.97	21.01	20.93	22.00
10	16QAM	1	49	21.04	20.96	20.87	22.00
10	16QAM	25	0	21.05	21.06	20.89	22.00
10	16QAM	25	12	20.98	20.96	21.01	22.00
10	16QAM	25	25	20.88	20.93	20.95	22.00
10	16QAM	50	0	20.87	20.96	21.04	22.00
10	64QAM	1	0	20.92	20.99	21.01	22.00
10	64QAM	1	25	20.99	20.90	20.91	22.00
10	64QAM	1	49	20.93	20.89	20.99	22.00
10	64QAM	25	0	20.01	19.96	19.94	21.00
10	64QAM	25	12	20.02	20.04	19.90	21.00
10	64QAM	25	25	19.99	19.97	19.95	21.00
10	64QAM	50	0	20.03	19.92	19.91	21.00
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	21.05	21.05	21.07	22.00
5	QPSK	1	12	20.95	20.98	21.03	22.00
5	QPSK	1	24	20.87	20.96	20.96	22.00
5	QPSK	12	0	20.98	21.03	20.95	22.00
5	QPSK	12	7	20.97	20.95	20.87	22.00
5	QPSK	12	13	20.94	20.96	20.96	22.00
5	QPSK	25	0	20.92	20.88	20.97	22.00
5	16QAM	1	0	20.93	20.95	21.00	22.00
5	16QAM	1	12	20.98	21.03	21.05	22.00
5	16QAM	1	24	21.03	21.00	20.91	22.00
5	16QAM	12	0	20.99	20.96	20.89	22.00
5	16QAM	12	7	20.99	20.94	20.95	22.00
5	16QAM	12	13	20.90	20.94	20.93	22.00
5	16QAM	25	0	20.90	20.94	21.01	22.00
5	64QAM	1	0	20.86	20.95	20.99	22.00
5	64QAM	1	12	20.93	20.95	20.99	22.00
5	64QAM	1	24	20.92	20.91	20.95	22.00
5	64QAM	12	0	20.06	20.03	19.93	21.00
5	64QAM	12	7	19.93	20.06	19.98	21.00
5	64QAM	12	13	19.94	20.02	19.86	21.00
5	64QAM	25	0	20.01	19.89	19.93	21.00
Channel				26705	26865	27025	Tune-up limit



Frequency (MHz)				815.5	831.5	847.5	(dBm)
3	QPSK	1	0	21.08	21.11	21.08	22.00
3	QPSK	1	8	21.06	20.98	20.99	22.00
3	QPSK	1	14	20.85	20.90	20.91	22.00
3	QPSK	8	0	20.99	21.00	20.93	22.00
3	QPSK	8	4	21.00	21.01	20.98	22.00
3	QPSK	8	7	20.88	20.92	21.04	22.00
3	QPSK	15	0	20.93	20.89	21.05	22.00
3	16QAM	1	0	21.01	20.93	20.95	22.00
3	16QAM	1	8	21.02	21.04	20.95	22.00
3	16QAM	1	14	21.03	20.91	20.85	22.00
3	16QAM	8	0	21.06	21.00	20.97	22.00
3	16QAM	8	4	20.96	20.93	20.94	22.00
3	16QAM	8	7	20.93	21.00	21.04	22.00
3	16QAM	15	0	20.92	21.00	20.98	22.00
3	64QAM	1	0	20.89	20.93	21.02	22.00
3	64QAM	1	8	20.91	20.93	21.03	22.00
3	64QAM	1	14	20.95	20.95	20.88	22.00
3	64QAM	8	0	20.06	19.92	19.99	21.00
3	64QAM	8	4	19.91	19.98	20.00	21.00
3	64QAM	8	7	20.03	19.95	19.83	21.00
3	64QAM	15	0	20.03	19.87	20.00	21.00
Channel				26697	26865	27033	Tune-up limit
Frequency (MHz)				814.7	831.5	848.3	(dBm)
1.4	QPSK	1	0	20.97	21.10	21.03	22.00
1.4	QPSK	1	3	21.05	20.94	21.03	22.00
1.4	QPSK	1	5	20.87	20.93	20.99	22.00
1.4	QPSK	3	0	21.01	21.00	20.98	22.00
1.4	QPSK	3	1	20.87	21.03	20.93	22.00
1.4	QPSK	3	3	20.97	20.84	21.06	22.00
1.4	QPSK	6	0	20.01	20.01	20.04	21.00
1.4	16QAM	1	0	20.03	20.03	20.02	21.00
1.4	16QAM	1	3	20.03	20.02	20.07	21.00
1.4	16QAM	1	5	20.07	20.02	19.87	21.00
1.4	16QAM	3	0	20.02	20.02	19.89	21.00
1.4	16QAM	3	1	20.01	19.90	19.89	21.00
1.4	16QAM	3	3	19.88	19.97	19.94	21.00
1.4	16QAM	6	0	18.85	18.96	19.06	20.00
1.4	64QAM	1	0	18.86	19.01	19.01	20.00
1.4	64QAM	1	3	18.92	18.86	19.03	20.00
1.4	64QAM	1	5	18.94	18.97	18.95	20.00
1.4	64QAM	3	0	18.97	19.00	18.89	20.00
1.4	64QAM	3	1	18.97	19.03	18.97	20.00
1.4	64QAM	3	3	18.93	19.00	18.94	20.00
1.4	64QAM	6	0	17.91	17.94	18.01	19.00

【LTE Band 41_FCC (2496~2690MHz)】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.15	22.24	22.24	22.37	22.69	24.00
20	QPSK	1	49	22.74	22.77	22.89	23.01	23.47	24.00
20	QPSK	1	99	22.33	22.39	22.54	22.66	22.94	24.00
20	QPSK	50	0	21.20	21.27	21.41	21.50	21.98	23.00
20	QPSK	50	24	21.37	21.44	21.51	21.63	22.03	23.00
20	QPSK	50	50	21.19	21.39	21.43	21.44	21.96	23.00
20	QPSK	100	0	21.19	21.39	21.42	21.48	21.92	23.00
20	16QAM	1	0	21.00	21.00	21.11	21.09	21.67	23.00
20	16QAM	1	49	21.72	21.90	21.94	22.01	22.52	23.00
20	16QAM	1	99	21.46	21.54	21.59	21.65	21.99	23.00
20	16QAM	50	0	20.22	20.30	20.43	20.44	20.98	22.00
20	16QAM	50	24	20.41	20.41	20.53	20.53	21.03	22.00
20	16QAM	50	50	20.26	20.42	20.45	20.47	20.96	22.00
20	16QAM	100	0	20.24	20.43	20.44	20.49	20.92	22.00
20	64QAM	1	0	20.62	20.74	20.82	20.87	21.34	22.00
20	64QAM	1	49	21.09	21.11	21.23	21.22	21.88	22.00
20	64QAM	1	99	20.98	21.05	21.11	21.17	21.65	22.00
20	64QAM	50	0	20.51	20.64	20.71	20.69	20.88	21.00
20	64QAM	50	24	20.64	20.80	20.84	20.84	20.95	21.00
20	64QAM	50	50	20.46	20.64	20.67	20.70	20.88	21.00



20	64QAM	100	0	20.31	20.38	20.46	20.49	20.93	21.00
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.13	22.14	22.15	22.35	22.64	24.00
15	QPSK	1	37	22.70	22.69	22.81	22.93	23.36	24.00
15	QPSK	1	74	22.22	22.24	22.47	22.54	22.86	24.00
15	QPSK	36	0	21.14	21.13	21.33	21.46	21.85	23.00
15	QPSK	36	20	21.34	21.37	21.37	21.40	21.98	23.00
15	QPSK	36	39	21.17	21.36	21.33	21.43	21.95	23.00
15	QPSK	75	0	21.09	21.30	21.33	21.47	21.86	23.00
15	16QAM	1	0	21.00	21.02	21.00	21.04	21.53	23.00
15	16QAM	1	37	21.61	21.81	21.82	21.95	22.41	23.00
15	16QAM	1	74	21.36	21.45	21.55	21.62	21.96	23.00
15	16QAM	36	0	20.17	20.27	20.32	20.33	20.91	22.00
15	16QAM	36	20	20.33	20.27	20.45	20.45	20.99	22.00
15	16QAM	36	39	20.16	20.30	20.33	20.38	20.83	22.00
15	16QAM	75	0	20.17	20.36	20.38	20.40	20.89	22.00
15	64QAM	1	0	20.48	20.73	20.80	20.80	21.26	22.00
15	64QAM	1	37	21.02	21.10	21.19	21.16	21.73	22.00
15	64QAM	1	74	20.86	21.00	21.08	21.12	21.55	22.00
15	64QAM	36	0	20.44	20.61	20.62	20.68	20.81	21.00
15	64QAM	36	20	20.61	20.72	20.78	20.76	20.83	21.00
15	64QAM	36	39	20.39	20.58	20.57	20.62	20.74	21.00
15	64QAM	75	0	20.23	20.34	20.40	20.44	20.85	21.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.10	22.10	22.09	22.29	22.63	24.00
10	QPSK	1	25	22.60	22.76	22.82	22.93	23.34	24.00
10	QPSK	1	49	22.20	22.33	22.43	22.60	22.84	24.00
10	QPSK	25	0	21.18	21.16	21.37	21.35	21.86	23.00
10	QPSK	25	12	21.24	21.36	21.48	21.48	21.89	23.00
10	QPSK	25	25	21.10	21.25	21.41	21.41	21.92	23.00
10	QPSK	50	0	21.08	21.35	21.36	21.34	21.88	23.00
10	16QAM	1	0	21.01	21.01	21.02	21.01	21.54	23.00
10	16QAM	1	25	21.67	21.87	21.84	21.97	22.50	23.00
10	16QAM	1	49	21.36	21.44	21.55	21.54	21.90	23.00
10	16QAM	25	0	20.13	20.26	20.33	20.42	20.86	22.00
10	16QAM	25	12	20.32	20.26	20.49	20.40	20.91	22.00
10	16QAM	25	25	20.25	20.30	20.33	20.33	20.95	22.00
10	16QAM	50	0	20.21	20.38	20.35	20.35	20.81	22.00
10	64QAM	1	0	20.51	20.72	20.78	20.74	21.28	22.00
10	64QAM	1	25	21.04	21.00	21.12	21.17	21.81	22.00
10	64QAM	1	49	20.84	20.94	21.09	21.02	21.60	22.00
10	64QAM	25	0	20.37	20.51	20.58	20.67	20.86	21.00
10	64QAM	25	12	20.53	20.68	20.79	20.82	20.82	21.00
10	64QAM	25	25	20.32	20.57	20.62	20.67	20.74	21.00
10	64QAM	50	0	20.19	20.29	20.44	20.35	20.91	21.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5	
5	QPSK	1	0	22.14	22.10	22.18	22.36	22.62	24.00
5	QPSK	1	12	22.63	22.74	22.75	22.95	23.39	24.00
5	QPSK	1	24	22.31	22.31	22.45	22.65	22.88	24.00
5	QPSK	12	0	21.18	21.25	21.38	21.44	21.93	23.00
5	QPSK	12	7	21.29	21.40	21.49	21.44	21.96	23.00
5	QPSK	12	13	21.16	21.32	21.41	21.49	21.82	23.00
5	QPSK	25	0	21.06	21.35	21.41	21.42	21.77	23.00
5	16QAM	1	0	21.00	21.02	21.08	21.02	21.58	23.00
5	16QAM	1	12	21.58	21.80	21.81	21.87	22.41	23.00
5	16QAM	1	24	21.41	21.51	21.47	21.57	21.94	23.00
5	16QAM	12	0	20.18	20.21	20.40	20.40	20.90	22.00
5	16QAM	12	7	20.36	20.34	20.50	20.38	20.88	22.00
5	16QAM	12	13	20.14	20.36	20.31	20.37	20.82	22.00
5	16QAM	25	0	20.23	20.41	20.38	20.40	20.84	22.00
5	64QAM	1	0	20.53	20.61	20.72	20.76	21.33	22.00
5	64QAM	1	12	21.08	21.07	21.15	21.12	21.84	22.00
5	64QAM	1	24	20.87	20.92	21.04	21.11	21.53	22.00
5	64QAM	12	0	20.38	20.54	20.69	20.65	20.83	21.00
5	64QAM	12	7	20.61	20.72	20.77	20.80	20.89	21.00
5	64QAM	12	13	20.42	20.53	20.54	20.64	20.81	21.00
5	64QAM	25	0	20.26	20.37	20.44	20.38	20.91	21.00



【LTE Band 66】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.65	19.71	19.66	21.00
20	QPSK	1	49	19.64	19.64	19.58	21.00
20	QPSK	1	99	19.62	19.62	19.62	21.00
20	QPSK	50	0	19.65	19.69	19.60	21.00
20	QPSK	50	24	19.62	19.62	19.66	21.00
20	QPSK	50	50	19.65	19.60	19.57	21.00
20	QPSK	100	0	19.56	19.58	19.63	21.00
20	16QAM	1	0	19.65	19.63	19.58	21.00
20	16QAM	1	49	19.59	19.58	19.58	21.00
20	16QAM	1	99	19.63	19.64	19.62	21.00
20	16QAM	50	0	19.62	19.57	19.57	21.00
20	16QAM	50	24	19.56	19.57	19.56	21.00
20	16QAM	50	50	19.61	19.66	19.59	21.00
20	16QAM	100	0	19.60	19.59	19.68	21.00
20	64QAM	1	0	19.67	19.60	19.60	21.00
20	64QAM	1	49	19.63	19.59	19.67	21.00
20	64QAM	1	99	19.60	19.60	19.58	21.00
20	64QAM	50	0	19.65	19.63	19.59	21.00
20	64QAM	50	24	19.67	19.61	19.59	21.00
20	64QAM	50	50	19.61	19.66	19.58	21.00
20	64QAM	100	0	19.63	19.63	19.67	21.00
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.52	19.59	19.63	21.00
15	QPSK	1	37	19.53	19.52	19.52	21.00
15	QPSK	1	74	19.48	19.57	19.50	21.00
15	QPSK	36	0	19.59	19.64	19.49	21.00
15	QPSK	36	20	19.52	19.51	19.61	21.00
15	QPSK	36	39	19.63	19.51	19.50	21.00
15	QPSK	75	0	19.42	19.56	19.61	21.00
15	16QAM	1	0	19.53	19.60	19.57	21.00
15	16QAM	1	37	19.48	19.55	19.45	21.00
15	16QAM	1	74	19.49	19.57	19.55	21.00
15	16QAM	36	0	19.61	19.46	19.46	21.00
15	16QAM	36	20	19.44	19.45	19.51	21.00
15	16QAM	36	39	19.52	19.56	19.55	21.00
15	16QAM	75	0	19.56	19.52	19.55	21.00
15	64QAM	1	0	19.65	19.49	19.46	21.00
15	64QAM	1	37	19.57	19.45	19.65	21.00
15	64QAM	1	74	19.55	19.47	19.56	21.00
15	64QAM	36	0	19.60	19.51	19.46	21.00
15	64QAM	36	20	19.65	19.59	19.55	21.00
15	64QAM	36	39	19.50	19.56	19.48	21.00
15	64QAM	75	0	19.61	19.50	19.54	21.00
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.60	19.67	19.60	21.00
10	QPSK	1	25	19.53	19.61	19.44	21.00
10	QPSK	1	49	19.49	19.47	19.58	21.00
10	QPSK	25	0	19.53	19.63	19.48	21.00
10	QPSK	25	12	19.49	19.61	19.57	21.00
10	QPSK	25	25	19.58	19.52	19.55	21.00
10	QPSK	50	0	19.47	19.47	19.49	21.00
10	16QAM	1	0	19.61	19.61	19.45	21.00
10	16QAM	1	25	19.54	19.48	19.44	21.00
10	16QAM	1	49	19.55	19.63	19.49	21.00
10	16QAM	25	0	19.48	19.52	19.54	21.00
10	16QAM	25	12	19.46	19.55	19.43	21.00
10	16QAM	25	25	19.52	19.56	19.50	21.00
10	16QAM	50	0	19.50	19.58	19.67	21.00
10	64QAM	1	0	19.60	19.51	19.58	21.00
10	64QAM	1	25	19.57	19.53	19.58	21.00
10	64QAM	1	49	19.54	19.56	19.48	21.00
10	64QAM	25	0	19.52	19.56	19.51	21.00
10	64QAM	25	12	19.64	19.49	19.45	21.00
10	64QAM	25	25	19.54	19.62	19.49	21.00
10	64QAM	50	0	19.58	19.50	19.58	21.00



Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	QPSK	1	0	19.59	19.57	19.54	21.00
5	QPSK	1	12	19.63	19.63	19.46	21.00
5	QPSK	1	24	19.53	19.59	19.54	21.00
5	QPSK	12	0	19.55	19.68	19.45	21.00
5	QPSK	12	7	19.48	19.49	19.59	21.00
5	QPSK	12	13	19.52	19.52	19.54	21.00
5	QPSK	25	0	19.53	19.47	19.59	21.00
5	16QAM	1	0	19.50	19.60	19.51	21.00
5	16QAM	1	12	19.54	19.43	19.48	21.00
5	16QAM	1	24	19.52	19.57	19.48	21.00
5	16QAM	12	0	19.54	19.43	19.53	21.00
5	16QAM	12	7	19.54	19.50	19.45	21.00
5	16QAM	12	13	19.46	19.51	19.52	21.00
5	16QAM	25	0	19.52	19.56	19.67	21.00
5	64QAM	1	0	19.53	19.52	19.57	21.00
5	64QAM	1	12	19.60	19.54	19.54	21.00
5	64QAM	1	24	19.45	19.55	19.45	21.00
5	64QAM	12	0	19.50	19.50	19.46	21.00
5	64QAM	12	7	19.59	19.48	19.56	21.00
5	64QAM	12	13	19.55	19.63	19.45	21.00
5	64QAM	25	0	19.52	19.60	19.56	21.00
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	19.55	19.68	19.58	21.00
3	QPSK	1	8	19.58	19.59	19.46	21.00
3	QPSK	1	14	19.48	19.59	19.55	21.00
3	QPSK	8	0	19.52	19.55	19.57	21.00
3	QPSK	8	4	19.49	19.52	19.59	21.00
3	QPSK	8	7	19.60	19.58	19.54	21.00
3	QPSK	15	0	19.50	19.46	19.53	21.00
3	16QAM	1	0	19.63	19.61	19.54	21.00
3	16QAM	1	8	19.56	19.52	19.47	21.00
3	16QAM	1	14	19.51	19.52	19.52	21.00
3	16QAM	8	0	19.58	19.48	19.53	21.00
3	16QAM	8	4	19.45	19.55	19.47	21.00
3	16QAM	8	7	19.55	19.58	19.52	21.00
3	16QAM	15	0	19.54	19.51	19.63	21.00
3	64QAM	1	0	19.65	19.55	19.49	21.00
3	64QAM	1	8	19.48	19.52	19.57	21.00
3	64QAM	1	14	19.54	19.50	19.49	21.00
3	64QAM	8	0	19.60	19.49	19.53	21.00
3	64QAM	8	4	19.61	19.52	19.55	21.00
3	64QAM	8	7	19.47	19.53	19.51	21.00
3	64QAM	15	0	19.57	19.50	19.64	21.00
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	19.51	19.66	19.60	21.00
1.4	QPSK	1	3	19.54	19.52	19.51	21.00
1.4	QPSK	1	5	19.60	19.50	19.50	21.00
1.4	QPSK	3	0	19.50	19.55	19.55	21.00
1.4	QPSK	3	1	19.56	19.60	19.51	21.00
1.4	QPSK	3	3	19.53	19.49	19.47	21.00
1.4	QPSK	6	0	18.45	18.50	18.48	20.00
1.4	16QAM	1	0	18.50	18.55	18.50	20.00
1.4	16QAM	1	3	18.55	18.53	18.48	20.00
1.4	16QAM	1	5	18.61	18.62	18.54	20.00
1.4	16QAM	3	0	18.54	18.49	18.51	20.00
1.4	16QAM	3	1	18.54	18.52	18.52	20.00
1.4	16QAM	3	3	18.56	18.51	18.46	20.00
1.4	16QAM	6	0	17.55	17.53	17.64	19.00
1.4	64QAM	1	0	17.66	17.50	17.54	19.00
1.4	64QAM	1	3	17.56	17.44	17.59	19.00
1.4	64QAM	1	5	17.53	17.57	17.51	19.00
1.4	64QAM	3	0	17.59	17.48	17.56	19.00
1.4	64QAM	3	1	17.63	17.56	17.53	19.00
1.4	64QAM	3	3	17.52	17.62	17.56	19.00
1.4	64QAM	6	0	16.59	16.54	16.59	18.00



【LTE Band 71】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	Tune-up limit (dBm)
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	22.77	22.83	23.02	24.00
20	QPSK	1	49	22.62	22.71	22.88	24.00
20	QPSK	1	99	22.63	22.79	22.85	24.00
20	QPSK	50	0	22.03	22.19	22.31	23.00
20	QPSK	50	24	21.99	22.15	22.32	23.00
20	QPSK	50	50	21.89	22.08	22.13	23.00
20	QPSK	100	0	21.79	21.99	22.10	23.00
20	16QAM	1	0	21.96	22.11	22.20	23.00
20	16QAM	1	49	21.78	21.98	22.04	23.00
20	16QAM	1	99	21.79	21.88	22.01	23.00
20	16QAM	50	0	20.81	20.97	21.03	22.00
20	16QAM	50	24	20.90	21.05	21.20	22.00
20	16QAM	50	50	20.68	20.87	20.97	22.00
20	16QAM	100	0	20.66	20.86	20.95	22.00
20	64QAM	1	0	21.21	21.39	21.53	22.00
20	64QAM	1	49	21.38	21.48	21.64	22.00
20	64QAM	1	99	21.21	21.33	21.48	22.00
20	64QAM	50	0	20.62	20.82	20.98	21.00
20	64QAM	50	24	20.62	20.72	20.76	21.00
20	64QAM	50	50	20.70	20.88	20.90	21.00
20	64QAM	100	0	20.66	20.80	20.89	21.00
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.64	22.73	22.99	24.00
15	QPSK	1	37	22.58	22.63	22.80	24.00
15	QPSK	1	74	22.48	22.68	22.79	24.00
15	QPSK	36	0	21.95	22.16	22.28	23.00
15	QPSK	36	20	21.90	22.10	22.28	23.00
15	QPSK	36	39	21.87	22.01	22.02	23.00
15	QPSK	75	0	21.78	21.92	21.95	23.00
15	16QAM	1	0	21.91	22.09	22.13	23.00
15	16QAM	1	37	21.68	21.93	21.93	23.00
15	16QAM	1	74	21.69	21.85	21.91	23.00
15	16QAM	36	0	20.76	20.91	21.01	22.00
15	16QAM	36	20	20.89	20.95	21.15	22.00
15	16QAM	36	39	20.53	20.84	20.88	22.00
15	16QAM	75	0	20.55	20.81	20.92	22.00
15	64QAM	1	0	21.12	21.30	21.40	22.00
15	64QAM	1	37	21.30	21.43	21.58	22.00
15	64QAM	1	74	21.15	21.24	21.39	22.00
15	64QAM	36	0	20.57	20.79	20.94	21.00
15	64QAM	36	20	20.55	20.64	20.72	21.00
15	64QAM	36	39	20.64	20.80	20.75	21.00
15	64QAM	75	0	20.56	20.73	20.86	21.00
Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	22.68	22.80	22.97	24.00
10	QPSK	1	25	22.58	22.65	22.76	24.00
10	QPSK	1	49	22.53	22.66	22.79	24.00
10	QPSK	25	0	21.99	22.05	22.17	23.00
10	QPSK	25	12	21.88	22.09	22.24	23.00
10	QPSK	25	25	21.83	21.95	22.05	23.00
10	QPSK	50	0	21.67	21.84	21.99	23.00
10	16QAM	1	0	21.90	22.01	22.16	23.00
10	16QAM	1	25	21.69	21.89	21.93	23.00
10	16QAM	1	49	21.68	21.77	21.93	23.00
10	16QAM	25	0	20.79	20.94	21.00	22.00
10	16QAM	25	12	20.88	21.02	21.13	22.00
10	16QAM	25	25	20.57	20.84	20.92	22.00
10	16QAM	50	0	20.64	20.79	20.88	22.00
10	64QAM	1	0	21.07	21.26	21.40	22.00
10	64QAM	1	25	21.37	21.40	21.56	22.00
10	64QAM	1	49	21.18	21.19	21.37	22.00
10	64QAM	25	0	20.50	20.69	20.85	21.00
10	64QAM	25	12	20.57	20.61	20.67	21.00
10	64QAM	25	25	20.67	20.86	20.84	21.00
10	64QAM	50	0	20.60	20.75	20.83	21.00
Channel				133147	133297	133447	Tune-up limit



Frequency (MHz)				665.5	680.5	695.5	(dBm)
5	QPSK	1	0	22.69	22.69	22.92	24.00
5	QPSK	1	12	22.55	22.65	22.84	24.00
5	QPSK	1	24	22.61	22.66	22.75	24.00
5	QPSK	12	0	21.98	22.11	22.18	23.00
5	QPSK	12	7	21.96	22.01	22.28	23.00
5	QPSK	12	13	21.87	22.05	22.08	23.00
5	QPSK	25	0	21.68	21.88	22.05	23.00
5	16QAM	1	0	21.88	22.09	22.13	23.00
5	16QAM	1	12	21.76	21.86	21.92	23.00
5	16QAM	1	24	21.67	21.77	21.94	23.00
5	16QAM	12	0	20.78	20.95	20.95	22.00
5	16QAM	12	7	20.86	20.93	21.10	22.00
5	16QAM	12	13	20.66	20.82	20.85	22.00
5	16QAM	25	0	20.61	20.79	20.83	22.00
5	64QAM	1	0	21.10	21.34	21.45	22.00
5	64QAM	1	12	21.32	21.42	21.62	22.00
5	64QAM	1	24	21.12	21.29	21.39	22.00
5	64QAM	12	0	20.52	20.80	20.85	21.00
5	64QAM	12	7	20.53	20.61	20.70	21.00
5	64QAM	12	13	20.57	20.75	20.89	21.00
5	64QAM	25	0	20.60	20.65	20.75	21.00

<Bluetooth Conducted Power>
【Bluetooth】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
BR / EDR 1Mbps	0	2402	12.65	14.00	76.83
	39	2441	13.36	14.50	
	78	2480	12.99	14.00	
BR / EDR 2Mbps	0	2402	10.29	11.50	76.82
	39	2441	10.96	12.00	
	78	2480	11.22	12.50	
BR / EDR 3Mbps	0	2402	10.33	11.50	77.05
	39	2441	10.72	12.00	
	78	2480	11.44	12.50	
LE 1Mbps	0	2402	7.61	9.00	62.27
	19	2440	8.37	9.50	
	39	2480	9.68	11.00	
LE 2Mbps	0	2402	7.47	8.50	32.64
	19	2440	8.21	9.50	
	39	2480	9.40	10.50	

<WLAN Conducted Power>
【2.4GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	15.82	17.00	100.00
	6	2437	16.92	18.00	
	11	2462	16.28	17.50	
802.11g 6Mbps	1	2412	15.54	16.50	98.26
	6	2437	16.67	18.00	
	11	2462	15.98	17.00	
802.11n-HT20 MCS0	1	2412	15.30	16.50	98.13
	6	2437	16.43	17.50	
	11	2462	15.81	17.00	
802.11n-HT40 MCS0	3	2422	14.48	15.50	94.89
	6	2437	16.06	17.00	
	9	2452	13.79	15.00	

【5.2GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	16.54	17.50	98.26
	40	5200	16.73	18.00	
	44	5220	16.81	18.00	
	48	5240	16.76	18.00	
802.11n-HT20 MCS0	36	5180	16.46	17.50	98.87
	40	5200	16.59	17.50	
	44	5220	16.71	18.00	
	48	5240	16.69	18.00	
802.11n-HT40 MCS0	38	5190	15.69	17.00	96.27
	46	5230	16.44	17.50	
802.11ac-VHT20 MCS0	36	5180	15.76	17.00	98.14
	40	5200	15.86	17.00	
	44	5220	16.01	17.00	
	48	5240	15.90	17.00	
802.11ac-VHT40 MCS0	38	5190	15.27	16.50	96.30
	46	5230	15.45	16.50	
802.11ac-VHT80 MCS0	42	5210	13.42	14.50	92.15



【5.3GHz WLAN】

			Ant 1		
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	16.77	18.00	98.26
	56	5280	16.80	18.00	
	60	5300	16.84	18.00	
	64	5320	16.60	18.00	
802.11n-HT20 MCS0	52	5260	16.68	18.00	98.87
	56	5280	16.22	17.50	
	60	5300	16.64	18.00	
	64	5320	16.52	17.50	
802.11n-HT40 MCS0	54	5270	16.28	17.50	96.27
	62	5310	16.27	17.50	
802.11ac-VHT20 MCS0	52	5260	15.95	17.00	98.14
	56	5280	15.96	17.00	
	60	5300	15.99	17.00	
	64	5320	15.69	17.00	
802.11ac-VHT40 MCS0	54	5270	15.24	16.50	96.30
	62	5310	15.26	16.50	
802.11ac-VHT80 MCS0	58	5290	13.59	15.00	92.15

【5.5GHz WLAN】

			Ant 1		
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	16.10	17.00	98.26
	116	5580	16.07	17.00	
	124	5620	16.02	17.00	
	132	5660	16.29	17.50	
	144	5720	16.48	17.50	
802.11n-HT20 MCS0	100	5500	15.91	17.00	98.87
	116	5580	15.87	17.00	
	124	5620	15.90	17.00	
	132	5660	16.11	17.00	
802.11n-HT40 MCS0	144	5720	16.27	17.00	96.27
	102	5510	15.42	16.50	
	110	5550	15.35	16.50	
	126	5630	15.42	16.50	
	134	5670	15.69	17.00	
802.11ac-VHT20 MCS0	142	5710	15.87	17.00	98.14
	100	5500	15.04	17.00	
	116	5580	14.97	16.00	
	124	5620	14.91	16.00	
	132	5660	15.25	16.50	
802.11ac-VHT40 MCS0	144	5720	15.39	16.50	96.30
	102	5510	14.47	15.50	
	110	5550	14.42	15.50	
	126	5630	14.36	15.50	
	134	5670	14.84	16.00	
802.11ac-VHT80 MCS0	142	5710	14.97	16.00	92.15
	106	5530	13.08	14.00	
	122	5610	13.33	14.50	
	138	5690	13.74	15.00	

【5.8GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	16.09	17.00	98.26
	157	5785	15.76	17.00	
	165	5825	15.63	17.00	
802.11n-HT20 MCS0	149	5745	15.98	17.00	98.87
	157	5785	15.65	17.00	
	165	5825	15.54	16.50	
802.11n-HT40 MCS0	151	5755	15.45	16.50	96.27
	159	5795	15.10	16.00	
802.11ac-VHT20 MCS0	149	5745	15.03	16.00	98.14
	157	5785	14.72	16.00	
	165	5825	14.60	16.00	
802.11ac-VHT40 MCS0	151	5755	14.52	16.00	96.30
	159	5795	14.14	15.50	
802.11ac-VHT80 MCS0	155	5775	13.32	14.50	92.15