



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	22.22	22.27	22.07	23.00
3GPP Rel 6	HSDPA Subtest-1	21.14	21.18	20.85	22.00
3GPP Rel 6	HSDPA Subtest-2	21.16	21.22	21.00	22.00
3GPP Rel 6	HSDPA Subtest-3	20.51	20.68	20.41	21.50
3GPP Rel 6	HSDPA Subtest-4	20.69	20.74	20.53	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.14	21.29	21.06	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.07	21.21	20.99	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.54	20.61	20.39	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.72	20.77	20.45	21.50
3GPP Rel 6	HSUPA Subtest-1	21.01	21.14	20.90	22.00
3GPP Rel 6	HSUPA Subtest-2	18.89	19.04	18.83	20.00
3GPP Rel 6	HSUPA Subtest-3	20.01	20.11	19.80	21.00
3GPP Rel 6	HSUPA Subtest-4	18.99	19.11	18.79	20.00
3GPP Rel 6	HSUPA Subtest-5	21.08	21.19	20.90	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.48	18.65	18.42	19.50

【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	23.65	23.21	22.96	24.00
3GPP Rel 6	HSDPA Subtest-1	22.49	22.17	21.89	23.00
3GPP Rel 6	HSDPA Subtest-2	22.45	22.11	21.89	23.00
3GPP Rel 6	HSDPA Subtest-3	21.99	21.71	21.47	22.50
3GPP Rel 6	HSDPA Subtest-4	22.03	21.64	21.30	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.45	22.09	21.81	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.53	22.17	21.95	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.08	21.69	21.45	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.96	21.61	21.30	22.50
3GPP Rel 6	HSUPA Subtest-1	22.55	22.15	21.92	23.00
3GPP Rel 6	HSUPA Subtest-2	20.47	20.17	19.97	21.00
3GPP Rel 6	HSUPA Subtest-3	21.40	21.08	20.76	22.00
3GPP Rel 6	HSUPA Subtest-4	20.40	20.09	19.88	21.00
3GPP Rel 6	HSUPA Subtest-5	22.38	22.09	21.85	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.06	19.71	19.43	20.50

【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	25.11	25.18	24.97	25.70
3GPP Rel 6	HSDPA Subtest-1	23.92	24.09	23.82	24.70
3GPP Rel 6	HSDPA Subtest-2	23.89	24.04	23.77	24.70
3GPP Rel 6	HSDPA Subtest-3	23.36	23.61	23.32	24.20
3GPP Rel 6	HSDPA Subtest-4	23.45	23.59	23.31	24.20
3GPP Rel 6	DC-HSDPA Subtest-1	22.89	23.11	22.82	24.70
3GPP Rel 8	DC-HSDPA Subtest-2	22.80	23.03	22.83	24.70
3GPP Rel 8	DC-HSDPA Subtest-3	23.45	23.62	23.41	24.20
3GPP Rel 8	DC-HSDPA Subtest-4	23.57	23.71	23.46	24.20
3GPP Rel 6	HSUPA Subtest-1	23.01	23.22	22.99	24.70
3GPP Rel 6	HSUPA Subtest-2	20.93	21.11	20.82	22.70
3GPP Rel 6	HSUPA Subtest-3	21.92	22.15	21.84	23.70
3GPP Rel 6	HSUPA Subtest-4	21.89	22.04	21.77	22.70
3GPP Rel 6	HSUPA Subtest-5	23.95	24.11	23.80	24.70
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.31	21.44	21.25	22.20

<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	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.70	23.80	23.56	25.00
20	QPSK	1	49	23.62	23.70	23.31	25.00
20	QPSK	1	99	23.52	23.72	23.43	25.00
20	QPSK	50	0	22.68	22.73	22.60	24.00
20	QPSK	50	24	22.54	22.72	22.50	24.00
20	QPSK	50	50	22.57	22.71	22.49	24.00
20	QPSK	100	0	22.59	22.70	22.43	24.00
20	16QAM	1	0	22.42	22.55	22.24	24.00
20	16QAM	1	49	22.57	22.64	22.46	24.00
20	16QAM	1	99	22.34	22.51	22.18	24.00
20	16QAM	50	0	21.58	21.59	21.35	23.00
20	16QAM	50	24	21.44	21.54	21.24	23.00
20	16QAM	50	50	21.62	21.73	21.51	23.00
20	16QAM	100	0	21.52	21.57	21.24	23.00
20	64QAM	1	0	21.55	21.70	21.39	23.00
20	64QAM	1	49	21.82	21.98	21.55	23.00
20	64QAM	1	99	21.38	21.57	21.36	23.00
20	64QAM	50	0	20.58	20.70	20.48	22.00
20	64QAM	50	24	20.43	20.57	20.37	22.00
20	64QAM	50	50	20.49	20.56	20.25	22.00
20	64QAM	100	0	20.69	20.82	20.55	22.00
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.61	23.72	23.41	25.00
15	QPSK	1	37	23.60	23.61	23.21	25.00
15	QPSK	1	74	23.50	23.66	23.34	25.00
15	QPSK	36	0	22.69	22.69	22.49	24.00
15	QPSK	36	20	22.48	22.59	22.49	24.00
15	QPSK	36	39	22.45	22.72	22.48	24.00
15	QPSK	75	0	22.48	22.64	22.34	24.00
15	16QAM	1	0	22.35	22.43	22.19	24.00
15	16QAM	1	37	22.45	22.57	22.34	24.00
15	16QAM	1	74	22.26	22.42	22.07	24.00
15	16QAM	36	0	21.43	21.55	21.25	23.00
15	16QAM	36	20	21.31	21.45	21.10	23.00
15	16QAM	36	39	21.54	21.59	21.45	23.00
15	16QAM	75	0	21.43	21.54	21.16	23.00
15	64QAM	1	0	21.42	21.66	21.34	23.00
15	64QAM	1	37	21.72	21.90	21.44	23.00
15	64QAM	1	74	21.28	21.48	21.31	23.00
15	64QAM	36	0	20.50	20.69	20.35	22.00
15	64QAM	36	20	20.31	20.50	20.32	22.00
15	64QAM	36	39	20.43	20.44	20.22	22.00
15	64QAM	75	0	20.58	20.69	20.41	22.00
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.62	23.70	23.49	25.00
10	QPSK	1	25	23.51	23.55	23.22	25.00
10	QPSK	1	49	23.40	23.58	23.42	25.00
10	QPSK	25	0	22.62	22.72	22.51	24.00
10	QPSK	25	12	22.52	22.66	22.44	24.00
10	QPSK	25	25	22.45	22.68	22.41	24.00
10	QPSK	50	0	22.56	22.59	22.36	24.00
10	16QAM	1	0	22.29	22.46	22.22	24.00
10	16QAM	1	25	22.50	22.53	22.33	24.00
10	16QAM	1	49	22.23	22.46	22.05	24.00
10	16QAM	25	0	21.45	21.53	21.32	23.00
10	16QAM	25	12	21.35	21.39	21.15	23.00
10	16QAM	25	25	21.59	21.72	21.42	23.00
10	16QAM	50	0	21.41	21.44	21.18	23.00
10	64QAM	1	0	21.51	21.56	21.31	23.00
10	64QAM	1	25	21.74	21.89	21.49	23.00
10	64QAM	1	49	21.31	21.47	21.35	23.00
10	64QAM	25	0	20.54	20.63	20.35	22.00
10	64QAM	25	12	20.39	20.55	20.35	22.00
10	64QAM	25	25	20.48	20.44	20.19	22.00
10	64QAM	50	0	20.54	20.73	20.40	22.00
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	



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5	QPSK	1	0	23.64	23.79	23.52	25.00
5	QPSK	1	12	23.48	23.63	23.19	25.00
5	QPSK	1	24	23.50	23.66	23.32	25.00
5	QPSK	12	0	22.59	22.60	22.51	24.00
5	QPSK	12	7	22.44	22.61	22.39	24.00
5	QPSK	12	13	22.48	22.68	22.40	24.00
5	QPSK	25	0	22.56	22.57	22.40	24.00
5	16QAM	1	0	22.34	22.52	22.15	24.00
5	16QAM	1	12	22.55	22.55	22.32	24.00
5	16QAM	1	24	22.27	22.44	22.07	24.00
5	16QAM	12	0	21.45	21.49	21.31	23.00
5	16QAM	12	7	21.35	21.44	21.10	23.00
5	16QAM	12	13	21.55	21.65	21.38	23.00
5	16QAM	25	0	21.39	21.50	21.09	23.00
5	64QAM	1	0	21.53	21.61	21.28	23.00
5	64QAM	1	12	21.77	21.96	21.46	23.00
5	64QAM	1	24	21.24	21.44	21.31	23.00
5	64QAM	12	0	20.47	20.60	20.45	22.00
5	64QAM	12	7	20.28	20.55	20.28	22.00
5	64QAM	12	13	20.34	20.44	20.22	22.00
5	64QAM	25	0	20.65	20.77	20.50	22.00
Channel				18615	18900	19185	Tune-up limit
Frequency (MHz)				1851.5	1880	1908.5	(dBm)
3	QPSK	1	0	23.56	23.77	23.46	25.00
3	QPSK	1	8	23.50	23.63	23.25	25.00
3	QPSK	1	14	23.48	23.65	23.28	25.00
3	QPSK	8	0	22.70	22.68	22.54	24.00
3	QPSK	8	4	22.41	22.59	22.44	24.00
3	QPSK	8	7	22.44	22.72	22.45	24.00
3	QPSK	15	0	22.48	22.68	22.29	24.00
3	16QAM	1	0	22.27	22.41	22.16	24.00
3	16QAM	1	8	22.52	22.52	22.37	24.00
3	16QAM	1	14	22.26	22.42	22.07	24.00
3	16QAM	8	0	21.46	21.57	21.28	23.00
3	16QAM	8	4	21.36	21.42	21.14	23.00
3	16QAM	8	7	21.50	21.66	21.43	23.00
3	16QAM	15	0	21.42	21.55	21.19	23.00
3	64QAM	1	0	21.41	21.60	21.31	23.00
3	64QAM	1	8	21.70	21.95	21.49	23.00
3	64QAM	1	14	21.30	21.49	21.22	23.00
3	64QAM	8	0	20.50	20.57	20.43	22.00
3	64QAM	8	4	20.39	20.54	20.32	22.00
3	64QAM	8	7	20.44	20.42	20.20	22.00
3	64QAM	15	0	20.61	20.75	20.54	22.00
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	23.61	23.72	23.53	25.00
1.4	QPSK	1	3	23.53	23.63	23.19	25.00
1.4	QPSK	1	5	23.44	23.57	23.35	25.00
1.4	QPSK	3	0	23.67	23.71	23.54	25.00
1.4	QPSK	3	1	23.47	23.65	23.41	25.00
1.4	QPSK	3	3	23.48	23.68	23.47	25.00
1.4	QPSK	6	0	22.56	22.68	22.41	24.00
1.4	16QAM	1	0	22.31	22.52	22.16	24.00
1.4	16QAM	1	3	22.48	22.59	22.32	24.00
1.4	16QAM	1	5	22.33	22.42	22.16	24.00
1.4	16QAM	3	0	22.54	22.55	22.33	24.00
1.4	16QAM	3	1	22.38	22.53	22.11	24.00
1.4	16QAM	3	3	22.58	22.65	22.40	24.00
1.4	16QAM	6	0	21.42	21.50	21.10	23.00
1.4	64QAM	1	0	21.50	21.60	21.30	23.00
1.4	64QAM	1	3	21.79	21.88	21.54	23.00
1.4	64QAM	1	5	21.36	21.56	21.24	23.00
1.4	64QAM	3	0	21.51	21.68	21.39	23.00
1.4	64QAM	3	1	21.33	21.56	21.27	23.00
1.4	64QAM	3	3	21.44	21.52	21.13	23.00
1.4	64QAM	6	0	20.55	20.69	20.51	22.00

【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	Tune-up limit (dBm)
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.25	23.33	23.09	24.00
20	QPSK	1	49	22.93	23.03	22.73	24.00
20	QPSK	1	99	22.92	23.05	22.74	24.00
20	QPSK	50	0	22.69	22.43	22.20	23.00
20	QPSK	50	24	22.27	22.42	22.07	23.00
20	QPSK	50	50	22.20	22.31	21.93	23.00
20	QPSK	100	0	22.10	22.22	21.88	23.00
20	16QAM	1	0	22.36	22.57	22.25	23.00
20	16QAM	1	49	22.79	22.97	22.64	23.00
20	16QAM	1	99	22.56	22.66	22.29	23.00
20	16QAM	50	0	21.15	21.27	21.04	22.00
20	16QAM	50	24	21.32	21.44	21.10	22.00
20	16QAM	50	50	21.15	21.24	20.93	22.00
20	16QAM	100	0	21.08	21.26	20.90	22.00
20	64QAM	1	0	21.14	21.29	21.05	22.00
20	64QAM	1	49	21.09	21.25	20.98	22.00
20	64QAM	1	99	21.14	21.33	21.09	22.00
20	64QAM	50	0	20.03	20.24	19.91	21.00
20	64QAM	50	24	20.10	20.31	20.06	21.00
20	64QAM	50	50	20.14	20.35	20.02	21.00
20	64QAM	100	0	20.12	20.32	20.01	21.00
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.09	23.14	22.93	24.00
15	QPSK	1	37	22.75	22.78	22.47	24.00
15	QPSK	1	74	22.66	22.82	22.59	24.00
15	QPSK	36	0	22.48	22.22	21.97	23.00
15	QPSK	36	20	22.07	22.17	21.87	23.00
15	QPSK	36	39	21.95	22.15	21.68	23.00
15	QPSK	75	0	21.90	22.03	21.67	23.00
15	16QAM	1	0	22.13	22.32	22.07	23.00
15	16QAM	1	37	22.55	22.77	22.45	23.00
15	16QAM	1	74	22.37	22.49	22.03	23.00
15	16QAM	36	0	20.91	21.06	20.80	22.00
15	16QAM	36	20	21.11	21.27	20.85	22.00
15	16QAM	36	39	20.97	21.09	20.73	22.00
15	16QAM	75	0	20.91	21.08	20.73	22.00
15	64QAM	1	0	20.95	21.06	20.83	22.00
15	64QAM	1	37	20.83	21.01	20.77	22.00
15	64QAM	1	74	20.93	21.17	20.86	22.00
15	64QAM	36	0	19.83	20.09	19.69	21.00
15	64QAM	36	20	19.87	20.11	19.83	21.00
15	64QAM	36	39	19.96	20.17	19.77	21.00
15	64QAM	75	0	19.98	20.09	19.75	21.00
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.04	23.10	22.88	24.00
10	QPSK	1	25	22.70	22.85	22.58	24.00
10	QPSK	1	49	22.77	22.91	22.55	24.00
10	QPSK	25	0	22.55	22.19	22.06	23.00
10	QPSK	25	12	22.13	22.27	21.84	23.00
10	QPSK	25	25	22.04	22.07	21.76	23.00
10	QPSK	50	0	21.92	21.97	21.68	23.00
10	16QAM	1	0	22.16	22.41	22.03	23.00
10	16QAM	1	25	22.58	22.76	22.40	23.00
10	16QAM	1	49	22.36	22.45	22.03	23.00
10	16QAM	25	0	20.94	21.06	20.80	22.00
10	16QAM	25	12	21.07	21.24	20.86	22.00
10	16QAM	25	25	20.96	21.05	20.77	22.00
10	16QAM	50	0	20.89	21.05	20.66	22.00
10	64QAM	1	0	20.97	21.04	20.87	22.00
10	64QAM	1	25	20.93	21.07	20.76	22.00
10	64QAM	1	49	20.97	21.08	20.93	22.00
10	64QAM	25	0	19.79	20.01	19.76	21.00
10	64QAM	25	12	19.84	20.10	19.80	21.00
10	64QAM	25	25	19.90	20.12	19.86	21.00
10	64QAM	50	0	19.95	20.09	19.78	21.00
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.03	23.19	22.92	24.00
5	QPSK	1	12	22.68	22.88	22.56	24.00

5	QPSK	1	24	22.70	22.91	22.50	24.00
5	QPSK	12	0	22.48	22.27	22.05	23.00
5	QPSK	12	7	22.12	22.22	21.85	23.00
5	QPSK	12	13	22.04	22.08	21.72	23.00
5	QPSK	25	0	21.91	21.96	21.64	23.00
5	16QAM	1	0	22.20	22.42	22.08	23.00
5	16QAM	1	12	22.58	22.77	22.47	23.00
5	16QAM	1	24	22.40	22.46	22.12	23.00
5	16QAM	12	0	20.93	21.12	20.88	22.00
5	16QAM	12	7	21.18	21.19	20.85	22.00
5	16QAM	12	13	20.93	21.09	20.73	22.00
5	16QAM	25	0	20.84	21.09	20.70	22.00
5	64QAM	1	0	20.89	21.13	20.86	22.00
5	64QAM	1	12	20.88	21.01	20.80	22.00
5	64QAM	1	24	20.96	21.10	20.86	22.00
5	64QAM	12	0	19.88	20.03	19.67	21.00
5	64QAM	12	7	19.89	20.08	19.84	21.00
5	64QAM	12	13	19.92	20.17	19.80	21.00
5	64QAM	25	0	19.95	20.13	19.77	21.00
Channel				19965	20175	20385	Tune-up limit
Frequency (MHz)				1711.5	1732.5	1753.5	(dBm)
3	QPSK	1	0	23.08	23.15	22.94	24.00
3	QPSK	1	8	22.72	22.81	22.58	24.00
3	QPSK	1	14	22.66	22.79	22.59	24.00
3	QPSK	8	0	22.49	22.27	22.02	23.00
3	QPSK	8	4	22.11	22.26	21.82	23.00
3	QPSK	8	7	21.97	22.10	21.74	23.00
3	QPSK	15	0	21.86	22.01	21.67	23.00
3	16QAM	1	0	22.19	22.42	22.01	23.00
3	16QAM	1	8	22.62	22.83	22.45	23.00
3	16QAM	1	14	22.41	22.51	22.13	23.00
3	16QAM	8	0	20.91	21.11	20.79	22.00
3	16QAM	8	4	21.12	21.26	20.86	22.00
3	16QAM	8	7	20.98	21.07	20.76	22.00
3	16QAM	15	0	20.85	21.03	20.65	22.00
3	64QAM	1	0	20.92	21.05	20.80	22.00
3	64QAM	1	8	20.87	21.07	20.74	22.00
3	64QAM	1	14	20.93	21.17	20.85	22.00
3	64QAM	8	0	19.88	20.08	19.75	21.00
3	64QAM	8	4	19.88	20.07	19.83	21.00
3	64QAM	8	7	19.90	20.14	19.82	21.00
3	64QAM	15	0	19.94	20.07	19.85	21.00
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	23.12	23.26	23.03	24.00
1.4	QPSK	1	3	22.84	22.92	22.58	24.00
1.4	QPSK	1	5	22.84	22.98	22.64	24.00
1.4	QPSK	3	0	22.64	22.34	22.15	24.00
1.4	QPSK	3	1	22.19	22.30	22.03	24.00
1.4	QPSK	3	3	22.07	22.26	22.10	24.00
1.4	QPSK	6	0	21.94	22.17	21.74	23.00
1.4	16QAM	1	0	22.32	22.46	22.17	23.00
1.4	16QAM	1	3	22.71	22.88	22.48	23.00
1.4	16QAM	1	5	22.43	22.62	22.25	23.00
1.4	16QAM	3	0	21.01	21.21	21.06	23.00
1.4	16QAM	3	1	21.27	21.37	21.13	23.00
1.4	16QAM	3	3	21.01	21.11	21.08	23.00
1.4	16QAM	6	0	20.93	21.20	20.78	22.00
1.4	64QAM	1	0	21.06	21.18	20.91	22.00
1.4	64QAM	1	3	20.94	21.20	20.92	22.00
1.4	64QAM	1	5	20.99	21.19	20.95	22.00
1.4	64QAM	3	0	20.16	20.11	20.30	22.00
1.4	64QAM	3	1	20.08	20.17	20.00	22.00
1.4	64QAM	3	3	20.08	20.30	20.21	22.00
1.4	64QAM	6	0	20.03	20.24	19.91	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	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.19	25.37	25.30	25.70
10	QPSK	1	25	24.98	25.35	25.17	25.70
10	QPSK	1	49	24.73	24.95	24.88	25.70
10	QPSK	25	0	24.12	24.33	24.25	24.70
10	QPSK	25	12	24.11	24.33	24.13	24.70
10	QPSK	25	25	23.87	24.18	24.07	24.70
10	QPSK	50	0	23.77	24.11	23.96	24.70
10	16QAM	1	0	24.28	24.49	24.25	24.70
10	16QAM	1	25	24.20	24.40	24.21	24.70
10	16QAM	1	49	23.76	23.87	23.78	24.70
10	16QAM	25	0	22.95	23.23	23.14	23.70
10	16QAM	25	12	22.88	23.06	22.93	23.70
10	16QAM	25	25	22.73	23.02	22.86	23.70
10	16QAM	50	0	22.87	23.10	22.88	23.70
10	64QAM	1	0	23.00	23.20	23.09	23.70
10	64QAM	1	25	23.44	23.56	23.46	23.70
10	64QAM	1	49	22.70	22.78	22.74	23.70
10	64QAM	25	0	22.16	22.41	22.18	22.70
10	64QAM	25	12	22.06	22.22	22.14	22.70
10	64QAM	25	25	21.81	21.97	21.70	22.70
10	64QAM	50	0	22.10	22.21	22.13	22.70
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	25.15	25.32	25.26	25.70
5	QPSK	1	12	24.96	25.27	25.04	25.70
5	QPSK	1	24	24.71	24.89	24.76	25.70
5	QPSK	12	0	24.03	24.19	24.13	24.70
5	QPSK	12	7	24.00	24.28	24.08	24.70
5	QPSK	12	13	23.72	24.06	24.01	24.70
5	QPSK	25	0	23.71	24.00	23.86	24.70
5	16QAM	1	0	24.14	24.47	24.18	24.70
5	16QAM	1	12	24.12	24.31	24.12	24.70
5	16QAM	1	24	23.71	23.74	23.75	24.70
5	16QAM	12	0	22.90	23.15	23.08	23.70
5	16QAM	12	7	22.87	22.96	22.85	23.70
5	16QAM	12	13	22.70	22.98	22.79	23.70
5	16QAM	25	0	22.74	23.03	22.84	23.70
5	64QAM	1	0	22.90	23.17	22.97	23.70
5	64QAM	1	12	23.36	23.44	23.42	23.70
5	64QAM	1	24	22.70	22.71	22.71	23.70
5	64QAM	12	0	22.02	22.38	22.10	22.70
5	64QAM	12	7	22.04	22.13	22.06	22.70
5	64QAM	12	13	21.75	21.91	21.71	22.70
5	64QAM	25	0	21.98	22.19	21.99	22.70
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	25.17	25.35	25.23	25.70
3	QPSK	1	8	24.93	25.26	25.05	25.70
3	QPSK	1	14	24.70	24.94	24.87	25.70
3	QPSK	8	0	24.05	24.23	24.18	24.70
3	QPSK	8	4	24.06	24.20	24.11	24.70
3	QPSK	8	7	23.75	24.08	23.97	24.70
3	QPSK	15	0	23.75	24.01	23.87	24.70
3	16QAM	1	0	24.22	24.43	24.20	24.70
3	16QAM	1	8	24.08	24.28	24.10	24.70
3	16QAM	1	14	23.72	23.73	23.71	24.70
3	16QAM	8	0	22.82	23.19	23.08	23.70
3	16QAM	8	4	22.81	23.01	22.88	23.70
3	16QAM	8	7	22.70	22.97	22.77	23.70
3	16QAM	15	0	22.81	23.05	22.86	23.70
3	64QAM	1	0	22.92	23.11	23.05	23.70
3	64QAM	1	8	23.40	23.45	23.43	23.70
3	64QAM	1	14	22.72	22.71	22.72	23.70
3	64QAM	8	0	22.03	22.40	22.14	22.70
3	64QAM	8	4	22.00	22.18	22.07	22.70
3	64QAM	8	7	21.75	21.91	21.70	22.70
3	64QAM	15	0	22.05	22.19	22.06	22.70
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.15	25.26	25.16	25.70
1.4	QPSK	1	3	24.92	25.26	25.04	25.70

1.4	QPSK	1	5	24.71	24.86	24.80	25.70
1.4	QPSK	3	0	24.98	25.28	25.15	25.70
1.4	QPSK	3	1	25.07	25.19	25.10	25.70
1.4	QPSK	3	3	24.75	25.06	24.95	25.70
1.4	QPSK	6	0	23.75	24.02	23.91	24.70
1.4	16QAM	1	0	24.20	24.38	24.14	24.70
1.4	16QAM	1	3	24.08	24.31	24.11	24.70
1.4	16QAM	1	5	23.70	23.75	23.76	24.70
1.4	16QAM	3	0	23.91	24.12	24.02	24.70
1.4	16QAM	3	1	23.80	23.96	23.84	24.70
1.4	16QAM	3	3	23.72	23.99	23.82	24.70
1.4	16QAM	6	0	22.84	22.98	22.85	23.70
1.4	64QAM	1	0	22.98	23.06	22.99	23.70
1.4	64QAM	1	3	23.41	23.45	23.32	23.70
1.4	64QAM	1	5	22.70	22.70	22.70	23.70
1.4	64QAM	3	0	23.02	23.30	23.10	23.70
1.4	64QAM	3	1	22.99	23.19	23.09	23.70
1.4	64QAM	3	3	22.76	22.88	22.70	23.70
1.4	64QAM	6	0	22.03	22.12	22.12	22.70

【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	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.06	23.53	23.13	
20	QPSK	1	49	23.93	23.33	23.35	25.00
20	QPSK	1	99	23.82	23.03	23.00	25.00
20	QPSK	50	0	22.74	22.14	22.55	24.00
20	QPSK	50	24	22.73	22.03	22.08	24.00
20	QPSK	50	50	22.65	22.14	22.11	24.00
20	QPSK	100	0	22.94	22.24	22.28	24.00
20	16QAM	1	0	23.84	23.02	23.01	24.00
20	16QAM	1	49	23.99	23.48	23.42	24.00
20	16QAM	1	99	23.59	22.78	22.82	24.00
20	16QAM	50	0	23.00	22.28	22.22	23.00
20	16QAM	50	24	22.94	22.24	22.25	23.00
20	16QAM	50	50	22.93	22.22	22.19	23.00
20	16QAM	100	0	22.82	22.15	22.16	23.00
20	64QAM	1	0	22.32	21.58	21.59	23.00
20	64QAM	1	49	22.54	21.81	21.78	23.00
20	64QAM	1	99	22.01	21.24	21.16	23.00
20	64QAM	50	0	21.99	21.30	21.30	22.00
20	64QAM	50	24	21.90	21.26	21.18	22.00
20	64QAM	50	50	21.99	21.35	21.40	22.00
20	64QAM	100	0	21.95	21.23	21.17	22.00
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.79	23.00	23.01	
15	QPSK	1	37	23.96	23.23	23.21	25.00
15	QPSK	1	74	23.71	23.00	23.01	25.00
15	QPSK	36	0	22.68	22.01	22.52	24.00
15	QPSK	36	20	22.61	22.00	22.01	24.00
15	QPSK	36	39	22.79	22.00	22.04	24.00
15	QPSK	75	0	22.84	22.13	22.14	24.00
15	16QAM	1	0	23.81	22.89	22.89	24.00
15	16QAM	1	37	23.86	23.38	23.34	24.00
15	16QAM	1	74	23.46	22.77	22.70	24.00
15	16QAM	36	0	22.87	22.13	22.12	23.00
15	16QAM	36	20	22.88	22.19	22.23	23.00
15	16QAM	36	39	22.83	22.19	22.11	23.00
15	16QAM	75	0	22.68	22.00	22.07	23.00
15	64QAM	1	0	22.27	21.56	21.49	23.00
15	64QAM	1	37	22.46	21.73	21.74	23.00
15	64QAM	1	74	21.86	21.17	21.15	23.00
15	64QAM	36	0	21.84	21.28	21.16	22.00
15	64QAM	36	20	21.83	21.14	21.12	22.00
15	64QAM	36	39	21.92	21.24	21.36	22.00
15	64QAM	75	0	21.89	21.20	21.05	22.00
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.84	23.00	23.02	

10	QPSK	1	25	23.94	23.23	23.23	25.00
10	QPSK	1	49	23.79	23.00	23.01	25.00
10	QPSK	25	0	22.62	22.12	22.43	24.00
10	QPSK	25	12	22.63	22.00	22.00	24.00
10	QPSK	25	25	22.75	22.00	22.02	24.00
10	QPSK	50	0	22.83	22.14	22.19	24.00
10	16QAM	1	0	23.70	22.99	22.92	24.00
10	16QAM	1	25	23.92	23.36	23.31	24.00
10	16QAM	1	49	23.53	22.66	22.78	24.00
10	16QAM	25	0	22.86	22.16	22.12	23.00
10	16QAM	25	12	22.87	22.22	22.13	23.00
10	16QAM	25	25	22.82	22.11	22.09	23.00
10	16QAM	50	0	22.70	22.01	22.08	23.00
10	64QAM	1	0	22.30	21.44	21.50	23.00
10	64QAM	1	25	22.41	21.79	21.73	23.00
10	64QAM	1	49	21.92	21.11	21.11	23.00
10	64QAM	25	0	21.85	21.27	21.16	22.00
10	64QAM	25	12	21.80	21.14	21.15	22.00
10	64QAM	25	25	21.90	21.26	21.30	22.00
10	64QAM	50	0	21.92	21.10	21.15	22.00
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.88	23.02	23.11	25.00
5	QPSK	1	12	23.98	23.29	23.21	25.00
5	QPSK	1	24	23.75	23.00	23.00	25.00
5	QPSK	12	0	22.63	22.09	22.51	24.00
5	QPSK	12	7	22.70	22.01	22.02	24.00
5	QPSK	12	13	22.73	22.00	22.07	24.00
5	QPSK	25	0	22.87	22.15	22.26	24.00
5	16QAM	1	0	23.83	22.99	22.96	24.00
5	16QAM	1	12	23.87	23.40	23.40	24.00
5	16QAM	1	24	23.49	22.67	22.75	24.00
5	16QAM	12	0	22.95	22.17	22.11	23.00
5	16QAM	12	7	22.89	22.16	22.16	23.00
5	16QAM	12	13	22.84	22.11	22.06	23.00
5	16QAM	25	0	22.73	22.09	22.03	23.00
5	64QAM	1	0	22.27	21.55	21.49	23.00
5	64QAM	1	12	22.52	21.70	21.76	23.00
5	64QAM	1	24	21.94	21.13	21.07	23.00
5	64QAM	12	0	21.89	21.22	21.22	22.00
5	64QAM	12	7	21.84	21.25	21.14	22.00
5	64QAM	12	13	21.88	21.23	21.35	22.00
5	64QAM	25	0	21.93	21.09	21.04	22.00

【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	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.50	24.59	24.51	25.70
10	QPSK	1	25	24.47	24.55	24.45	25.70
10	QPSK	1	49	24.18	24.29	24.37	25.70
10	QPSK	25	0	23.58	23.60	23.44	24.70
10	QPSK	25	12	23.42	23.52	23.58	24.70
10	QPSK	25	25	23.29	23.39	23.45	24.70
10	QPSK	50	0	23.27	23.41	23.43	24.70
10	16QAM	1	0	23.25	23.35	23.43	24.70
10	16QAM	1	25	23.21	23.23	23.33	24.70
10	16QAM	1	49	23.32	23.33	23.38	24.70
10	16QAM	25	0	22.43	22.53	22.57	23.70
10	16QAM	25	12	22.39	22.41	22.48	23.70
10	16QAM	25	25	22.40	22.45	22.48	23.70
10	16QAM	50	0	22.36	22.43	22.49	23.70
10	64QAM	1	0	22.30	22.34	22.36	23.70
10	64QAM	1	25	22.42	22.51	22.56	23.70
10	64QAM	1	49	22.31	22.41	22.44	23.70
10	64QAM	25	0	21.48	21.53	21.57	22.70
10	64QAM	25	12	21.30	21.33	21.33	22.70
10	64QAM	25	25	21.15	21.20	21.24	22.70
10	64QAM	50	0	21.18	21.26	21.23	22.70
Channel				23035	23095	23115	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	



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5	QPSK	1	0	24.47	24.47	24.42	25.70
5	QPSK	1	12	24.37	24.53	24.36	25.70
5	QPSK	1	24	24.10	24.18	24.29	25.70
5	QPSK	12	0	23.53	23.53	23.40	24.70
5	QPSK	12	7	23.34	23.45	23.44	24.70
5	QPSK	12	13	23.20	23.26	23.42	24.70
5	QPSK	25	0	23.18	23.30	23.40	24.70
5	16QAM	1	0	23.17	23.27	23.33	24.70
5	16QAM	1	12	23.08	23.17	23.21	24.70
5	16QAM	1	24	23.19	23.29	23.25	24.70
5	16QAM	12	0	22.31	22.39	22.52	23.70
5	16QAM	12	7	22.35	22.30	22.45	23.70
5	16QAM	12	13	22.32	22.41	22.37	23.70
5	16QAM	25	0	22.23	22.31	22.42	23.70
5	64QAM	1	0	22.21	22.30	22.28	23.70
5	64QAM	1	12	22.28	22.42	22.50	23.70
5	64QAM	1	24	22.26	22.37	22.31	23.70
5	64QAM	12	0	21.39	21.45	21.51	22.70
5	64QAM	12	7	21.27	21.20	21.20	22.70
5	64QAM	12	13	21.06	21.10	21.16	22.70
5	64QAM	25	0	21.15	21.15	21.17	22.70
Channel				23025	23095	23165	Tune-up limit
Frequency (MHz)				700.5	707.5	714.5	(dBm)
3	QPSK	1	0	24.47	24.54	24.40	25.70
3	QPSK	1	8	24.34	24.43	24.38	25.70
3	QPSK	1	14	24.11	24.23	24.29	25.70
3	QPSK	8	0	23.54	23.51	23.35	24.70
3	QPSK	8	4	23.34	23.45	23.48	24.70
3	QPSK	8	7	23.19	23.28	23.31	24.70
3	QPSK	15	0	23.24	23.35	23.32	24.70
3	16QAM	1	0	23.16	23.25	23.29	24.70
3	16QAM	1	8	23.17	23.10	23.26	24.70
3	16QAM	1	14	23.21	23.20	23.32	24.70
3	16QAM	8	0	22.35	22.48	22.49	23.70
3	16QAM	8	4	22.33	22.30	22.39	23.70
3	16QAM	8	7	22.30	22.42	22.35	23.70
3	16QAM	15	0	22.27	22.38	22.45	23.70
3	64QAM	1	0	22.24	22.31	22.24	23.70
3	64QAM	1	8	22.34	22.44	22.54	23.70
3	64QAM	1	14	22.28	22.34	22.37	23.70
3	64QAM	8	0	21.44	21.40	21.50	22.70
3	64QAM	8	4	21.21	21.31	21.30	22.70
3	64QAM	8	7	21.09	21.08	21.11	22.70
3	64QAM	15	0	21.15	21.16	21.19	22.70
Channel				23017	23095	23173	Tune-up limit
Frequency (MHz)				699.7	707.5	715.3	(dBm)
1.4	QPSK	1	0	24.35	24.42	24.40	25.70
1.4	QPSK	1	3	24.39	24.48	24.20	25.70
1.4	QPSK	1	5	24.00	24.23	24.23	25.70
1.4	QPSK	3	0	24.40	24.39	24.32	25.70
1.4	QPSK	3	1	24.29	24.45	24.54	25.70
1.4	QPSK	3	3	24.14	24.24	24.28	25.70
1.4	QPSK	6	0	23.07	23.27	23.38	24.70
1.4	16QAM	1	0	23.16	23.27	23.35	24.70
1.4	16QAM	1	3	23.04	23.06	23.19	24.70
1.4	16QAM	1	5	23.16	23.09	23.24	24.70
1.4	16QAM	3	0	23.26	23.44	23.49	24.70
1.4	16QAM	3	1	23.16	23.24	23.22	24.70
1.4	16QAM	3	3	23.30	23.30	23.32	24.70
1.4	16QAM	6	0	22.25	22.32	22.22	23.70
1.4	64QAM	1	0	22.16	22.16	22.27	23.70
1.4	64QAM	1	3	22.31	22.44	22.43	23.70
1.4	64QAM	1	5	22.23	22.25	22.34	23.70
1.4	64QAM	3	0	22.36	22.36	22.37	23.70
1.4	64QAM	3	1	22.09	22.10	22.22	23.70
1.4	64QAM	3	3	21.97	22.15	22.09	23.70
1.4	64QAM	6	0	21.03	21.09	21.02	22.70

【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		24.77		25.70
10	QPSK	1	25		24.70		25.70
10	QPSK	1	49		24.66		25.70
10	QPSK	25	0		23.99		24.70
10	QPSK	25	12		23.88		24.70
10	QPSK	25	25		23.81		24.70
10	QPSK	50	0		23.84		24.70
10	16QAM	1	0		23.97		24.70
10	16QAM	1	25		23.86		24.70
10	16QAM	1	49		23.03		24.70
10	16QAM	25	0		22.95		23.70
10	16QAM	25	12		23.02		23.70
10	16QAM	25	25		22.78		23.70
10	16QAM	50	0		22.84		23.70
10	64QAM	1	0		22.85		23.70
10	64QAM	1	25		22.87		23.70
10	64QAM	1	49		22.65		23.70
10	64QAM	25	0		21.75		22.70
10	64QAM	25	12		21.79		22.70
10	64QAM	25	25		21.83		22.70
10	64QAM	50	0		21.95		22.70
Channel				23205	23230	23255	Tune-up limit
Frequency (MHz)				779.5	782	784.5	(dBm)
5	QPSK	1	0	24.67	24.66	24.51	25.70
5	QPSK	1	12	24.50	24.63	24.39	25.70
5	QPSK	1	24	24.42	24.49	24.33	25.70
5	QPSK	12	0	24.39	24.46	24.19	24.70
5	QPSK	12	7	23.72	23.85	23.66	24.70
5	QPSK	12	13	23.62	23.69	23.44	24.70
5	QPSK	25	0	23.47	23.61	23.32	24.70
5	16QAM	1	0	23.63	23.74	23.52	24.70
5	16QAM	1	12	23.71	23.83	23.57	24.70
5	16QAM	1	24	23.72	23.82	23.60	24.70
5	16QAM	12	0	22.88	22.98	22.80	23.70
5	16QAM	12	7	22.80	22.92	22.72	23.70
5	16QAM	12	13	22.86	22.96	22.80	23.70
5	16QAM	25	0	22.68	22.73	22.54	23.70
5	64QAM	1	0	22.63	22.75	22.60	23.70
5	64QAM	1	12	22.71	22.78	22.63	23.70
5	64QAM	1	24	22.76	22.80	22.63	23.70
5	64QAM	12	0	22.45	22.51	22.28	22.70
5	64QAM	12	7	21.65	21.76	21.50	22.70
5	64QAM	12	13	21.47	21.61	21.46	22.70
5	64QAM	25	0	21.50	21.61	21.44	22.70

【LTE Band 14】

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		24.43		25.70
10	QPSK	1	25		24.38		25.70
10	QPSK	1	49		24.15		25.70
10	QPSK	25	0		23.45		24.70
10	QPSK	25	12		23.27		24.70
10	QPSK	25	25		23.05		24.70
10	QPSK	50	0		23.25		24.70
10	16QAM	1	0		23.12		24.70
10	16QAM	1	25		23.02		24.70
10	16QAM	1	49		23.11		24.70
10	16QAM	25	0		22.42		23.70
10	16QAM	25	12		22.34		23.70
10	16QAM	25	25		22.25		23.70
10	16QAM	50	0		22.34		23.70
10	64QAM	1	0		22.40		23.70



10	64QAM	1	25		22.31		23.70
10	64QAM	1	49		22.14		23.70
10	64QAM	25	0		21.50		22.70
10	64QAM	25	12		21.47		22.70
10	64QAM	25	25		21.35		22.70
10	64QAM	50	0		21.33		22.70
Channel				23305	23330	23355	Tune-up limit
Frequency (MHz)				790.5	793	795.5	(dBm)
5	QPSK	1	0	24.09	24.26	24.10	25.70
5	QPSK	1	12	24.00	24.24	24.06	25.70
5	QPSK	1	24	23.72	24.00	23.82	25.70
5	QPSK	12	0	22.98	23.27	23.02	24.70
5	QPSK	12	7	22.78	23.09	22.92	24.70
5	QPSK	12	13	22.70	22.90	22.70	24.70
5	QPSK	25	0	22.86	23.16	22.98	24.70
5	16QAM	1	0	22.91	23.12	22.90	24.70
5	16QAM	1	12	22.73	23.03	22.81	24.70
5	16QAM	1	24	22.85	23.02	22.73	24.70
5	16QAM	12	0	21.93	22.23	22.06	23.70
5	16QAM	12	7	21.87	22.18	21.92	23.70
5	16QAM	12	13	22.06	22.23	21.98	23.70
5	16QAM	25	0	22.12	22.35	22.13	23.70
5	64QAM	1	0	22.08	22.37	22.11	23.70
5	64QAM	1	12	22.00	22.17	21.91	23.70
5	64QAM	1	24	21.78	22.04	21.84	23.70
5	64QAM	12	0	21.09	21.38	21.19	22.70
5	64QAM	12	7	21.09	21.33	21.08	22.70
5	64QAM	12	13	21.09	21.29	21.03	22.70
5	64QAM	25	0	21.05	21.25	21.05	22.70

【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	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.33	24.55	24.41	25.70
10	QPSK	1	25	24.13	24.17	24.14	25.70
10	QPSK	1	49	24.27	24.31	24.16	25.70
10	QPSK	25	0	23.24	23.39	23.23	24.70
10	QPSK	25	12	23.12	23.27	23.21	24.70
10	QPSK	25	25	23.05	23.18	23.03	24.70
10	QPSK	50	0	23.28	23.33	23.24	24.70
10	16QAM	1	0	23.09	23.17	23.11	24.70
10	16QAM	1	25	23.39	23.38	23.35	24.70
10	16QAM	1	49	23.12	23.18	23.09	24.70
10	16QAM	25	0	22.21	22.21	22.17	23.70
10	16QAM	25	12	22.26	22.32	22.22	23.70
10	16QAM	25	25	22.04	22.20	22.11	23.70
10	16QAM	50	0	22.26	22.30	22.25	23.70
10	64QAM	1	0	22.41	22.56	22.44	23.70
10	64QAM	1	25	22.42	22.51	22.42	23.70
10	64QAM	1	49	22.21	22.34	22.30	23.70
10	64QAM	25	0	21.47	21.50	21.46	22.70
10	64QAM	25	12	21.33	21.48	21.45	22.70
10	64QAM	25	25	21.12	21.19	21.12	22.70
10	64QAM	50	0	21.29	21.34	21.33	22.70
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.30	24.43	24.34	25.70
5	QPSK	1	12	24.04	24.04	24.04	25.70
5	QPSK	1	24	24.22	24.26	24.05	25.70
5	QPSK	12	0	23.15	23.29	23.20	24.70
5	QPSK	12	7	23.07	23.17	23.17	24.70
5	QPSK	12	13	23.00	23.09	22.93	24.70
5	QPSK	25	0	23.24	23.30	23.11	24.70
5	16QAM	1	0	23.07	23.03	22.98	24.70
5	16QAM	1	12	23.34	23.25	23.31	24.70
5	16QAM	1	24	23.02	23.06	22.99	24.70
5	16QAM	12	0	22.17	22.11	22.09	23.70
5	16QAM	12	7	22.23	22.29	22.16	23.70
5	16QAM	12	13	21.94	22.15	22.00	23.70
5	16QAM	25	0	22.21	22.21	22.15	23.70



5	64QAM	1	0	22.28	22.49	22.37	23.70
5	64QAM	1	12	22.39	22.39	22.35	23.70
5	64QAM	1	24	22.19	22.28	22.21	23.70
5	64QAM	12	0	21.37	21.46	21.43	22.70
5	64QAM	12	7	21.20	21.37	21.35	22.70
5	64QAM	12	13	21.03	21.06	21.01	22.70
5	64QAM	25	0	21.23	21.24	21.20	22.70

【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	Tune-up limit (dBm)
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.75	23.89	23.66	25.00
20	QPSK	1	49	23.29	23.55	23.26	25.00
20	QPSK	1	99	23.40	23.58	23.25	25.00
20	QPSK	50	0	23.58	23.75	23.46	24.00
20	QPSK	50	24	23.58	23.70	23.45	24.00
20	QPSK	50	50	23.50	23.69	23.32	24.00
20	QPSK	100	0	23.54	23.72	23.53	24.00
20	16QAM	1	0	23.33	23.50	23.17	24.00
20	16QAM	1	49	23.41	23.62	23.27	24.00
20	16QAM	1	99	23.19	23.42	23.12	24.00
20	16QAM	50	0	22.46	22.63	22.40	23.00
20	16QAM	50	24	22.33	22.52	22.25	23.00
20	16QAM	50	50	22.55	22.76	22.49	23.00
20	16QAM	100	0	22.38	22.60	22.24	23.00
20	64QAM	1	0	22.34	22.60	22.33	23.00
20	64QAM	1	49	22.70	22.95	22.59	23.00
20	64QAM	1	99	22.30	22.52	22.21	23.00
20	64QAM	50	0	21.54	21.69	21.44	22.00
20	64QAM	50	24	21.34	21.54	21.25	22.00
20	64QAM	50	50	21.36	21.56	21.23	22.00
20	64QAM	100	0	21.50	21.73	21.45	22.00
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.53	23.71	23.49	25.00
15	QPSK	1	37	23.13	23.34	23.06	25.00
15	QPSK	1	74	23.19	23.32	23.07	25.00
15	QPSK	36	0	23.34	23.55	23.30	24.00
15	QPSK	36	20	23.34	23.44	23.30	24.00
15	QPSK	36	39	23.28	23.45	23.08	24.00
15	QPSK	75	0	23.30	23.53	23.28	24.00
15	16QAM	1	0	23.14	23.35	22.98	24.00
15	16QAM	1	37	23.18	23.41	23.03	24.00
15	16QAM	1	74	23.03	23.18	22.94	24.00
15	16QAM	36	0	22.28	22.38	22.17	23.00
15	16QAM	36	20	22.09	22.30	21.99	23.00
15	16QAM	36	39	22.37	22.56	22.31	23.00
15	16QAM	75	0	22.17	22.46	22.01	23.00
15	64QAM	1	0	22.20	22.39	22.12	23.00
15	64QAM	1	37	22.53	22.69	22.38	23.00
15	64QAM	1	74	22.08	22.30	22.05	23.00
15	64QAM	36	0	21.40	21.45	21.24	22.00
15	64QAM	36	20	21.11	21.34	21.05	22.00
15	64QAM	36	39	21.13	21.38	21.02	22.00
15	64QAM	75	0	21.30	21.52	21.26	22.00
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.56	23.68	23.45	25.00
10	QPSK	1	25	23.07	23.30	23.12	25.00
10	QPSK	1	49	23.15	23.43	23.10	25.00
10	QPSK	25	0	23.42	23.51	23.25	24.00
10	QPSK	25	12	23.37	23.53	23.27	24.00
10	QPSK	25	25	23.33	23.48	23.12	24.00
10	QPSK	50	0	23.35	23.49	23.37	24.00
10	16QAM	1	0	23.15	23.31	22.94	24.00
10	16QAM	1	25	23.17	23.45	23.11	24.00
10	16QAM	1	49	23.03	23.20	22.89	24.00
10	16QAM	25	0	22.26	22.38	22.19	23.00
10	16QAM	25	12	22.13	22.34	22.07	23.00
10	16QAM	25	25	22.32	22.56	22.27	23.00



10	16QAM	50	0	22.14	22.37	22.04	23.00
10	64QAM	1	0	22.18	22.45	22.18	23.00
10	64QAM	1	25	22.48	22.76	22.41	23.00
10	64QAM	1	49	22.10	22.37	22.05	23.00
10	64QAM	25	0	21.33	21.51	21.23	22.00
10	64QAM	25	12	21.16	21.36	21.07	22.00
10	64QAM	25	25	21.20	21.33	21.08	22.00
10	64QAM	50	0	21.34	21.53	21.29	22.00
Channel				26065	26340	26665	Tune-up limit
Frequency (MHz)				1852.5	1880	1912.5	(dBm)
5	QPSK	1	0	23.60	23.66	23.41	25.00
5	QPSK	1	12	23.12	23.39	23.00	25.00
5	QPSK	1	24	23.24	23.39	23.10	25.00
5	QPSK	12	0	23.41	23.54	23.22	24.00
5	QPSK	12	7	23.33	23.48	23.25	24.00
5	QPSK	12	13	23.34	23.49	23.07	24.00
5	QPSK	25	0	23.37	23.58	23.36	24.00
5	16QAM	1	0	23.18	23.35	22.99	24.00
5	16QAM	1	12	23.25	23.38	23.08	24.00
5	16QAM	1	24	23.02	23.27	22.93	24.00
5	16QAM	12	0	22.22	22.46	22.22	23.00
5	16QAM	12	7	22.14	22.33	22.08	23.00
5	16QAM	12	13	22.38	22.59	22.26	23.00
5	16QAM	25	0	22.15	22.37	21.99	23.00
5	64QAM	1	0	22.14	22.41	22.08	23.00
5	64QAM	1	12	22.54	22.73	22.35	23.00
5	64QAM	1	24	22.05	22.32	22.01	23.00
5	64QAM	12	0	21.30	21.46	21.25	22.00
5	64QAM	12	7	21.13	21.33	21.09	22.00
5	64QAM	12	13	21.13	21.37	21.06	22.00
5	64QAM	25	0	21.25	21.50	21.24	22.00
Channel				26055	26340	26675	Tune-up limit
Frequency (MHz)				1851.5	1880	1913.5	(dBm)
3	QPSK	1	0	23.50	23.75	23.50	25.00
3	QPSK	1	8	23.10	23.39	23.11	25.00
3	QPSK	1	14	23.24	23.41	23.09	25.00
3	QPSK	8	0	23.40	23.50	23.23	24.00
3	QPSK	8	4	23.37	23.48	23.20	24.00
3	QPSK	8	7	23.32	23.52	23.10	24.00
3	QPSK	15	0	23.30	23.55	23.36	24.00
3	16QAM	1	0	23.19	23.28	22.92	24.00
3	16QAM	1	8	23.15	23.46	23.03	24.00
3	16QAM	1	14	23.02	23.28	22.98	24.00
3	16QAM	8	0	22.30	22.37	22.23	23.00
3	16QAM	8	4	22.14	22.29	22.01	23.00
3	16QAM	8	7	22.34	22.59	22.24	23.00
3	16QAM	15	0	22.20	22.43	22.02	23.00
3	64QAM	1	0	22.17	22.44	22.09	23.00
3	64QAM	1	8	22.53	22.76	22.34	23.00
3	64QAM	1	14	22.08	22.28	22.03	23.00
3	64QAM	8	0	21.30	21.46	21.24	22.00
3	64QAM	8	4	21.19	21.36	21.07	22.00
3	64QAM	8	7	21.19	21.32	21.08	22.00
3	64QAM	15	0	21.25	21.50	21.22	22.00
Channel				26047	26340	26683	Tune-up limit
Frequency (MHz)				1850.7	1880	1914.3	(dBm)
1.4	QPSK	1	0	23.60	23.63	23.43	25.00
1.4	QPSK	1	3	23.13	23.31	23.04	25.00
1.4	QPSK	1	5	23.24	23.40	23.10	25.00
1.4	QPSK	3	0	23.41	23.56	23.22	25.00
1.4	QPSK	3	1	23.32	23.54	23.28	25.00
1.4	QPSK	3	3	23.33	23.52	23.11	25.00
1.4	QPSK	6	0	23.40	23.46	23.32	24.00
1.4	16QAM	1	0	23.08	23.36	22.94	24.00
1.4	16QAM	1	3	23.19	23.37	23.10	24.00
1.4	16QAM	1	5	22.97	23.27	22.93	24.00
1.4	16QAM	3	0	22.24	22.46	22.20	24.00
1.4	16QAM	3	1	22.11	22.36	22.03	24.00
1.4	16QAM	3	3	22.36	22.50	22.33	24.00
1.4	16QAM	6	0	22.17	22.36	22.09	23.00
1.4	64QAM	1	0	22.13	22.45	22.16	23.00
1.4	64QAM	1	3	22.56	22.69	22.40	23.00
1.4	64QAM	1	5	22.07	22.34	21.99	23.00
1.4	64QAM	3	0	21.32	21.50	21.21	23.00
1.4	64QAM	3	1	21.10	21.31	21.09	23.00
1.4	64QAM	3	3	21.17	21.34	21.01	23.00
1.4	64QAM	6	0	21.28	21.54	21.30	22.00

【LTE Band 26__FCC (814-849MHz)】

Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
15	QPSK 1 0	25.14	25.43	25.42	25.70
15	QPSK 1 37	25.12	25.42	25.31	25.70
15	QPSK 1 74	24.77	25.14	24.99	25.70
15	QPSK 36 0	24.22	24.53	24.30	24.70
15	QPSK 36 20	24.17	24.39	24.29	24.70
15	QPSK 36 39	23.87	24.26	24.14	24.70
15	QPSK 75 0	24.18	24.38	24.35	24.70
15	16QAM 1 0	23.89	24.22	24.05	24.70
15	16QAM 1 37	23.89	24.20	24.14	24.70
15	16QAM 1 74	23.71	23.89	23.90	24.70
15	16QAM 36 0	22.86	23.15	23.12	23.70
15	16QAM 36 20	23.03	23.39	23.19	23.70
15	16QAM 36 39	23.02	23.44	23.25	23.70
15	16QAM 75 0	23.12	23.45	23.43	23.70
15	64QAM 1 0	23.16	23.52	23.44	23.70
15	64QAM 1 37	23.02	23.29	23.14	23.70
15	64QAM 1 74	22.99	23.23	23.15	23.70
15	64QAM 36 0	22.21	22.46	22.34	22.70
15	64QAM 36 20	22.27	22.50	22.50	22.70
15	64QAM 36 39	22.05	22.40	22.22	22.70
15	64QAM 75 0	22.10	22.36	22.24	22.70
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
10	QPSK 1 0	25.07	25.40	25.39	25.70
10	QPSK 1 25	25.01	25.40	25.20	25.70
10	QPSK 1 49	24.65	25.09	24.94	25.70
10	QPSK 25 0	24.18	24.49	24.21	24.70
10	QPSK 25 12	24.08	24.26	24.26	24.70
10	QPSK 25 25	23.78	24.14	24.06	24.70
10	QPSK 50 0	24.12	24.33	24.23	24.70
10	16QAM 1 0	23.78	24.15	23.93	24.70
10	16QAM 1 25	23.84	24.10	24.09	24.70
10	16QAM 1 49	23.63	23.77	23.77	24.70
10	16QAM 25 0	22.74	23.08	23.10	23.70
10	16QAM 25 12	22.98	23.37	23.10	23.70
10	16QAM 25 25	22.94	23.36	23.22	23.70
10	16QAM 50 0	23.07	23.39	23.36	23.70
10	64QAM 1 0	23.12	23.42	23.38	23.70
10	64QAM 1 25	22.99	23.24	23.07	23.70
10	64QAM 1 49	22.96	23.18	23.12	23.70
10	64QAM 25 0	22.13	22.44	22.21	22.70
10	64QAM 25 12	22.19	22.44	22.48	22.70
10	64QAM 25 25	21.93	22.33	22.08	22.70
10	64QAM 50 0	22.04	22.28	22.15	22.70
Channel	Frequency (MHz)	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
5	QPSK 1 0	25.02	25.33	25.32	25.70
5	QPSK 1 12	25.05	25.36	25.28	25.70
5	QPSK 1 24	24.75	25.03	24.90	25.70
5	QPSK 12 0	24.17	24.44	24.21	24.70
5	QPSK 12 7	24.12	24.36	24.24	24.70
5	QPSK 12 13	23.83	24.23	24.02	24.70
5	QPSK 25 0	24.14	24.28	24.31	24.70
5	16QAM 1 0	23.84	24.11	23.94	24.70
5	16QAM 1 12	23.82	24.16	24.09	24.70
5	16QAM 1 24	23.57	23.84	23.78	24.70
5	16QAM 12 0	22.75	23.04	23.00	23.70
5	16QAM 12 7	22.89	23.30	23.13	23.70
5	16QAM 12 13	22.93	23.37	23.17	23.70
5	16QAM 25 0	23.09	23.34	23.31	23.70
5	64QAM 1 0	23.11	23.46	23.35	23.70
5	64QAM 1 12	22.89	23.23	23.07	23.70
5	64QAM 1 24	22.87	23.16	23.01	23.70
5	64QAM 12 0	22.18	22.42	22.25	22.70
5	64QAM 12 7	22.15	22.44	22.37	22.70
5	64QAM 12 13	21.93	22.32	22.16	22.70
5	64QAM 25 0	22.05	22.27	22.16	22.70

Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	25.10	25.32	25.32	25.70
3	QPSK	1	8	25.10	25.40	25.27	25.70
3	QPSK	1	14	24.74	25.01	24.95	25.70
3	QPSK	8	0	24.11	24.45	24.20	24.70
3	QPSK	8	4	24.12	24.29	24.17	24.70
3	QPSK	8	7	23.74	24.15	24.07	24.70
3	QPSK	15	0	24.14	24.33	24.26	24.70
3	16QAM	1	0	23.85	24.14	24.00	24.70
3	16QAM	1	8	23.85	24.13	24.04	24.70
3	16QAM	1	14	23.59	23.81	23.86	24.70
3	16QAM	8	0	22.81	23.06	23.04	23.70
3	16QAM	8	4	22.92	23.33	23.12	23.70
3	16QAM	8	7	22.93	23.37	23.13	23.70
3	16QAM	15	0	23.01	23.39	23.41	23.70
3	64QAM	1	0	23.07	23.39	23.41	23.70
3	64QAM	1	8	22.98	23.22	23.08	23.70
3	64QAM	1	14	22.96	23.13	23.04	23.70
3	64QAM	8	0	22.12	22.36	22.26	22.70
3	64QAM	8	4	22.17	22.47	22.45	22.70
3	64QAM	8	7	21.95	22.31	22.14	22.70
3	64QAM	15	0	22.01	22.31	22.15	22.70
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	25.05	25.31	25.32	25.70
1.4	QPSK	1	3	24.99	25.36	25.24	25.70
1.4	QPSK	1	5	24.74	25.04	24.92	25.70
1.4	QPSK	3	0	24.17	24.43	24.18	25.70
1.4	QPSK	3	1	24.14	24.34	24.21	25.70
1.4	QPSK	3	3	23.76	24.15	24.00	25.70
1.4	QPSK	6	0	24.06	24.32	24.32	24.70
1.4	16QAM	1	0	23.75	24.13	23.95	24.70
1.4	16QAM	1	3	23.83	24.14	24.04	24.70
1.4	16QAM	1	5	23.67	23.77	23.78	24.70
1.4	16QAM	3	0	22.74	23.11	23.01	24.70
1.4	16QAM	3	1	22.91	23.26	23.06	24.70
1.4	16QAM	3	3	22.90	23.35	23.17	24.70
1.4	16QAM	6	0	23.10	23.35	23.33	23.70
1.4	64QAM	1	0	23.10	23.43	23.30	23.70
1.4	64QAM	1	3	22.98	23.23	23.05	23.70
1.4	64QAM	1	5	22.92	23.17	23.04	23.70
1.4	64QAM	3	0	22.10	22.42	22.24	23.70
1.4	64QAM	3	1	22.17	22.39	22.41	23.70
1.4	64QAM	3	3	21.92	22.32	22.13	23.70
1.4	64QAM	6	0	22.01	22.25	22.18	22.70

【LTE Band 38】

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.35	23.38	23.18	24.00
20	QPSK	1	49	23.21	23.37	23.06	24.00
20	QPSK	1	99	22.65	22.80	22.53	24.00
20	QPSK	50	0	22.16	22.19	22.08	23.00
20	QPSK	50	24	22.03	22.11	21.89	23.00
20	QPSK	50	50	21.82	21.93	21.64	23.00
20	QPSK	100	0	22.01	22.05	21.82	23.00
20	16QAM	1	0	21.83	21.96	21.71	23.00
20	16QAM	1	49	21.92	22.05	21.81	23.00
20	16QAM	1	99	21.65	21.72	21.46	23.00
20	16QAM	50	0	21.18	21.25	20.93	22.00
20	16QAM	50	24	21.10	21.17	20.84	22.00
20	16QAM	50	50	20.91	21.08	20.80	22.00
20	16QAM	100	0	20.99	21.13	20.91	22.00
20	64QAM	1	0	21.02	21.15	20.95	22.00
20	64QAM	1	49	21.15	21.27	20.99	22.00
20	64QAM	1	99	20.74	20.80	20.50	22.00
20	64QAM	50	0	20.17	20.27	20.06	21.00
20	64QAM	50	24	19.97	20.14	19.91	21.00
20	64QAM	50	50	20.03	20.12	19.88	21.00



20	64QAM	100	0	20.05	20.15	19.95	21.00
Channel				37825	38000	38175	Tune-up limit
Frequency (MHz)				2577.5	2595	2612.5	(dBm)
15	QPSK	1	0	23.21	23.26	23.03	24.00
15	QPSK	1	37	23.17	23.29	23.04	24.00
15	QPSK	1	74	22.61	22.67	22.46	24.00
15	QPSK	36	0	22.02	22.14	22.06	23.00
15	QPSK	36	20	21.97	22.01	21.75	23.00
15	QPSK	36	39	21.72	21.82	21.63	23.00
15	QPSK	75	0	21.87	22.02	21.80	23.00
15	16QAM	1	0	21.69	21.90	21.65	23.00
15	16QAM	1	37	21.86	22.02	21.77	23.00
15	16QAM	1	74	21.57	21.66	21.33	23.00
15	16QAM	36	0	21.05	21.23	20.86	22.00
15	16QAM	36	20	20.95	21.04	20.76	22.00
15	16QAM	36	39	20.84	21.05	20.70	22.00
15	16QAM	75	0	20.95	21.05	20.76	22.00
15	64QAM	1	0	20.94	21.01	20.89	22.00
15	64QAM	1	37	21.07	21.15	20.94	22.00
15	64QAM	1	74	20.60	20.66	20.46	22.00
15	64QAM	36	0	20.16	20.26	20.04	21.00
15	64QAM	36	20	19.84	20.05	19.83	21.00
15	64QAM	36	39	20.01	20.01	19.87	21.00
15	64QAM	75	0	20.00	20.13	19.94	21.00
Channel				37800	38000	38200	Tune-up limit
Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	23.27	23.36	23.13	24.00
10	QPSK	1	25	23.18	23.25	23.05	24.00
10	QPSK	1	49	22.62	22.67	22.48	24.00
10	QPSK	25	0	22.15	22.08	21.96	23.00
10	QPSK	25	12	21.97	22.07	21.81	23.00
10	QPSK	25	25	21.76	21.80	21.52	23.00
10	QPSK	50	0	22.00	22.00	21.68	23.00
10	16QAM	1	0	21.71	21.87	21.60	23.00
10	16QAM	1	25	21.90	21.96	21.80	23.00
10	16QAM	1	49	21.57	21.65	21.41	23.00
10	16QAM	25	0	21.07	21.24	20.85	22.00
10	16QAM	25	12	21.07	21.11	20.74	22.00
10	16QAM	25	25	20.84	21.02	20.73	22.00
10	16QAM	50	0	20.85	21.09	20.82	22.00
10	64QAM	1	0	20.91	21.03	20.82	22.00
10	64QAM	1	25	21.01	21.21	20.94	22.00
10	64QAM	1	49	20.65	20.75	20.48	22.00
10	64QAM	25	0	20.06	20.12	20.04	21.00
10	64QAM	25	12	19.96	20.00	19.77	21.00
10	64QAM	25	25	20.01	20.01	19.74	21.00
10	64QAM	50	0	19.90	20.00	19.91	21.00
Channel				37775	38000	38225	Tune-up limit
Frequency (MHz)				2572.5	2595	2617.5	(dBm)
5	QPSK	1	0	23.24	23.34	23.10	24.00
5	QPSK	1	12	23.08	23.26	23.05	24.00
5	QPSK	1	24	22.55	22.73	22.39	24.00
5	QPSK	12	0	22.11	22.15	22.03	23.00
5	QPSK	12	7	21.88	22.01	21.77	23.00
5	QPSK	12	13	21.69	21.82	21.60	23.00
5	QPSK	25	0	21.87	21.96	21.79	23.00
5	16QAM	1	0	21.77	21.86	21.68	23.00
5	16QAM	1	12	21.82	21.93	21.78	23.00
5	16QAM	1	24	21.57	21.60	21.31	23.00
5	16QAM	12	0	21.10	21.19	20.86	22.00
5	16QAM	12	7	20.98	21.05	20.77	22.00
5	16QAM	12	13	20.88	20.99	20.74	22.00
5	16QAM	25	0	20.93	21.05	20.89	22.00
5	64QAM	1	0	20.89	21.01	20.89	22.00
5	64QAM	1	12	21.09	21.23	20.98	22.00
5	64QAM	1	24	20.59	20.71	20.43	22.00
5	64QAM	12	0	20.08	20.19	19.99	21.00
5	64QAM	12	7	19.93	20.04	19.87	21.00
5	64QAM	12	13	19.94	20.09	19.82	21.00
5	64QAM	25	0	19.98	20.01	19.94	21.00



【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	24.00
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.35	22.80	23.50	23.15	23.48	24.00
20	QPSK	1	49	23.26	22.68	23.49	23.04	23.46	24.00
20	QPSK	1	99	22.84	22.41	23.14	22.66	23.10	24.00
20	QPSK	50	0	22.33	21.84	22.48	22.04	22.41	23.00
20	QPSK	50	24	22.15	21.58	22.38	21.93	22.35	23.00
20	QPSK	50	50	22.02	21.52	22.25	21.78	22.13	23.00
20	QPSK	100	0	22.13	21.66	22.34	21.93	22.19	23.00
20	16QAM	1	0	22.15	21.60	22.35	21.91	22.29	23.00
20	16QAM	1	49	21.97	21.55	22.24	21.83	22.14	23.00
20	16QAM	1	99	21.75	21.24	21.94	21.56	21.87	23.00
20	16QAM	50	0	21.12	20.69	21.35	20.95	21.22	22.00
20	16QAM	50	24	21.30	20.78	21.45	21.01	21.35	22.00
20	16QAM	50	50	21.07	20.59	21.31	20.93	21.21	22.00
20	16QAM	100	0	21.12	20.68	21.38	20.94	21.33	22.00
20	64QAM	1	0	21.10	20.59	21.30	20.91	21.14	22.00
20	64QAM	1	49	21.00	20.54	21.25	20.79	21.09	22.00
20	64QAM	1	99	20.99	20.51	21.22	20.77	21.05	22.00
20	64QAM	50	0	20.24	19.82	20.47	20.07	20.35	21.00
20	64QAM	50	24	20.23	19.72	20.44	20.02	20.33	21.00
20	64QAM	50	50	19.99	19.61	20.25	19.88	20.11	21.00
20	64QAM	100	0	20.20	19.61	20.35	19.94	20.26	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	23.29	22.65	23.48	23.06	23.47	24.00
15	QPSK	1	37	23.17	22.64	23.45	22.97	23.41	24.00
15	QPSK	1	74	22.70	22.38	23.08	22.65	22.96	24.00
15	QPSK	36	0	22.25	21.75	22.38	21.94	22.36	23.00
15	QPSK	36	20	22.00	21.56	22.35	21.83	22.33	23.00
15	QPSK	36	39	21.93	21.40	22.17	21.67	21.99	23.00
15	QPSK	75	0	22.04	21.64	22.31	21.89	22.13	23.00
15	16QAM	1	0	22.03	21.51	22.28	21.82	22.27	23.00
15	16QAM	1	37	21.94	21.53	22.23	21.69	22.08	23.00
15	16QAM	1	74	21.71	21.14	21.86	21.43	21.79	23.00
15	16QAM	36	0	21.04	20.67	21.27	20.91	21.16	22.00
15	16QAM	36	20	21.17	20.76	21.34	20.88	21.21	22.00
15	16QAM	36	39	20.96	20.56	21.23	20.90	21.11	22.00
15	16QAM	75	0	20.99	20.57	21.29	20.85	21.30	22.00
15	64QAM	1	0	21.07	20.44	21.26	20.79	21.04	22.00
15	64QAM	1	37	20.97	20.40	21.10	20.70	20.96	22.00
15	64QAM	1	74	20.90	20.37	21.19	20.70	20.99	22.00
15	64QAM	36	0	20.11	19.74	20.39	19.94	20.21	21.00
15	64QAM	36	20	20.11	19.58	20.39	19.99	20.28	21.00
15	64QAM	36	39	19.98	19.46	20.14	19.80	20.03	21.00
15	64QAM	75	0	20.09	19.56	20.24	19.83	20.21	21.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.30	22.77	23.43	23.09	23.36	24.00
10	QPSK	1	25	23.22	22.66	23.45	22.96	23.31	24.00
10	QPSK	1	49	22.71	22.38	23.11	22.62	22.95	24.00
10	QPSK	25	0	22.20	21.81	22.41	22.02	22.28	23.00
10	QPSK	25	12	22.08	21.47	22.28	21.81	22.32	23.00
10	QPSK	25	25	21.91	21.40	22.22	21.72	22.08	23.00
10	QPSK	50	0	22.09	21.55	22.26	21.80	22.09	23.00
10	16QAM	1	0	22.04	21.54	22.22	21.86	22.26	23.00
10	16QAM	1	25	21.85	21.48	22.11	21.76	22.12	23.00
10	16QAM	1	49	21.73	21.17	21.85	21.48	21.83	23.00
10	16QAM	25	0	21.03	20.65	21.26	20.93	21.19	22.00
10	16QAM	25	12	21.19	20.68	21.40	20.90	21.31	22.00
10	16QAM	25	25	21.04	20.54	21.24	20.89	21.20	22.00
10	16QAM	50	0	21.02	20.59	21.36	20.88	21.25	22.00
10	64QAM	1	0	20.97	20.45	21.28	20.76	21.06	22.00
10	64QAM	1	25	20.91	20.53	21.23	20.65	20.95	22.00
10	64QAM	1	49	20.87	20.43	21.19	20.63	21.04	22.00
10	64QAM	25	0	20.16	19.72	20.33	20.02	20.29	21.00
10	64QAM	25	12	20.12	19.64	20.37	19.90	20.21	21.00
10	64QAM	25	25	19.94	19.57	20.20	19.82	19.99	21.00
10	64QAM	50	0	20.05	19.59	20.22	19.81	20.22	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	23.27	22.76	23.37	23.13	23.36	24.00
5	QPSK	1	12	23.17	22.59	23.44	22.98	23.37	24.00
5	QPSK	1	24	22.70	22.34	23.06	22.59	22.99	24.00
5	QPSK	12	0	22.18	21.73	22.34	21.91	22.37	23.00
5	QPSK	12	7	22.01	21.47	22.30	21.87	22.34	23.00
5	QPSK	12	13	21.96	21.47	22.24	21.75	22.08	23.00
5	QPSK	25	0	22.10	21.55	22.28	21.86	22.13	23.00
5	16QAM	1	0	22.13	21.54	22.30	21.86	22.20	23.00
5	16QAM	1	12	21.84	21.51	22.22	21.81	21.99	23.00
5	16QAM	1	24	21.62	21.14	21.87	21.46	21.81	23.00
5	16QAM	12	0	21.05	20.57	21.29	20.81	21.12	22.00
5	16QAM	12	7	21.22	20.67	21.34	20.94	21.32	22.00
5	16QAM	12	13	20.97	20.50	21.21	20.85	21.12	22.00
5	16QAM	25	0	21.05	20.64	21.34	20.89	21.25	22.00
5	64QAM	1	0	20.98	20.58	21.20	20.83	21.07	22.00
5	64QAM	1	12	20.91	20.45	21.24	20.67	21.04	22.00
5	64QAM	1	24	20.86	20.37	21.18	20.73	20.96	22.00
5	64QAM	12	0	20.13	19.67	20.36	20.04	20.31	21.00
5	64QAM	12	7	20.16	19.64	20.35	19.89	20.30	21.00
5	64QAM	12	13	19.89	19.49	20.19	19.82	20.07	21.00
5	64QAM	25	0	20.07	19.57	20.28	19.81	20.16	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	23.22	23.35	22.83	24.00
20	QPSK	1	49	23.10	23.15	22.60	24.00
20	QPSK	1	99	22.99	23.07	22.52	24.00
20	QPSK	50	0	22.22	22.34	21.75	23.00
20	QPSK	50	24	21.97	22.15	21.64	23.00
20	QPSK	50	50	22.04	22.10	21.59	23.00
20	QPSK	100	0	21.98	22.03	21.61	23.00
20	16QAM	1	0	21.89	21.94	21.48	23.00
20	16QAM	1	49	21.94	22.03	21.53	23.00
20	16QAM	1	99	21.67	21.83	21.39	23.00
20	16QAM	50	0	20.95	21.08	20.67	22.00
20	16QAM	50	24	20.89	21.04	20.56	22.00
20	16QAM	50	50	20.80	20.97	20.44	22.00
20	16QAM	100	0	20.78	20.88	20.39	22.00
20	64QAM	1	0	21.16	21.23	20.74	22.00
20	64QAM	1	49	21.04	21.18	20.66	22.00
20	64QAM	1	99	20.93	21.04	20.54	22.00
20	64QAM	50	0	19.85	19.99	19.53	21.00
20	64QAM	50	24	19.92	20.08	19.64	21.00
20	64QAM	50	50	20.02	20.10	19.66	21.00
20	64QAM	100	0	19.94	20.01	19.55	21.00
Channel				132047	132322	132597	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	QPSK	1	0	23.15	23.22	22.73	24.00
15	QPSK	1	37	23.02	23.03	22.48	24.00
15	QPSK	1	74	22.98	22.98	22.47	24.00
15	QPSK	36	0	22.19	22.32	21.66	23.00
15	QPSK	36	20	21.95	22.02	21.57	23.00
15	QPSK	36	39	21.94	22.03	21.49	23.00
15	QPSK	75	0	21.90	21.92	21.51	23.00
15	16QAM	1	0	21.80	21.92	21.44	23.00
15	16QAM	1	37	21.79	21.96	21.42	23.00
15	16QAM	1	74	21.57	21.74	21.33	23.00
15	16QAM	36	0	20.81	21.04	20.62	22.00
15	16QAM	36	20	20.74	20.95	20.47	22.00
15	16QAM	36	39	20.72	20.94	20.34	22.00
15	16QAM	75	0	20.75	20.86	20.36	22.00
15	64QAM	1	0	21.09	21.21	20.71	22.00
15	64QAM	1	37	20.93	21.10	20.59	22.00
15	64QAM	1	74	20.85	20.90	20.45	22.00
15	64QAM	36	0	19.81	19.85	19.50	21.00
15	64QAM	36	20	19.91	19.94	19.58	21.00
15	64QAM	36	39	19.95	20.03	19.62	21.00
15	64QAM	75	0	19.88	19.94	19.46	21.00
Channel				132022	132322	132622	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	QPSK	1	0	23.12	23.22	22.80	24.00
10	QPSK	1	25	22.97	23.06	22.48	24.00
10	QPSK	1	49	22.98	22.94	22.47	24.00
10	QPSK	25	0	22.17	22.20	21.64	23.00
10	QPSK	25	12	21.89	22.11	21.55	23.00
10	QPSK	25	25	21.98	21.96	21.58	23.00
10	QPSK	50	0	21.95	21.98	21.55	23.00
10	16QAM	1	0	21.88	21.83	21.33	23.00
10	16QAM	1	25	21.82	22.01	21.38	23.00
10	16QAM	1	49	21.64	21.70	21.27	23.00
10	16QAM	25	0	20.83	21.07	20.59	22.00
10	16QAM	25	12	20.81	20.91	20.44	22.00
10	16QAM	25	25	20.74	20.87	20.42	22.00
10	16QAM	50	0	20.76	20.76	20.34	22.00
10	64QAM	1	0	21.13	21.18	20.70	22.00
10	64QAM	1	25	20.99	21.15	20.61	22.00
10	64QAM	1	49	20.83	20.90	20.45	22.00
10	64QAM	25	0	19.78	19.87	19.45	21.00
10	64QAM	25	12	19.84	20.05	19.52	21.00
10	64QAM	25	25	20.00	20.08	19.61	21.00
10	64QAM	50	0	19.87	19.93	19.51	21.00
Channel				131997	132322	132647	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)



5	QPSK	1	0	23.17	23.19	22.75	24.00
5	QPSK	1	12	23.01	23.07	22.45	24.00
5	QPSK	1	24	22.92	23.03	22.38	24.00
5	QPSK	12	0	22.08	22.20	21.64	23.00
5	QPSK	12	7	21.87	22.10	21.59	23.00
5	QPSK	12	13	21.95	22.00	21.55	23.00
5	QPSK	25	0	21.96	22.01	21.56	23.00
5	16QAM	1	0	21.85	21.93	21.46	23.00
5	16QAM	1	12	21.82	21.92	21.45	23.00
5	16QAM	1	24	21.64	21.72	21.32	23.00
5	16QAM	12	0	20.87	21.02	20.60	22.00
5	16QAM	12	7	20.82	21.02	20.48	22.00
5	16QAM	12	13	20.71	20.92	20.32	22.00
5	16QAM	25	0	20.76	20.82	20.27	22.00
5	64QAM	1	0	21.11	21.10	20.65	22.00
5	64QAM	1	12	20.95	21.07	20.61	22.00
5	64QAM	1	24	20.81	20.98	20.40	22.00
5	64QAM	12	0	19.76	19.87	19.42	21.00
5	64QAM	12	7	19.85	19.96	19.61	21.00
5	64QAM	12	13	19.97	20.08	19.62	21.00
5	64QAM	25	0	19.80	19.90	19.51	21.00
Channel				131987	132322	132657	Tune-up limit
Frequency (MHz)				1711.5	1745	1778.5	(dBm)
3	QPSK	1	0	23.14	23.13	22.69	24.00
3	QPSK	1	8	23.02	23.04	22.54	24.00
3	QPSK	1	14	22.86	23.04	22.46	24.00
3	QPSK	8	0	22.14	22.29	21.70	23.00
3	QPSK	8	4	21.92	22.00	21.54	23.00
3	QPSK	8	7	21.90	22.02	21.52	23.00
3	QPSK	15	0	21.87	21.88	21.47	23.00
3	16QAM	1	0	21.81	21.79	21.36	23.00
3	16QAM	1	8	21.87	22.00	21.46	23.00
3	16QAM	1	14	21.64	21.82	21.34	23.00
3	16QAM	8	0	20.88	21.02	20.64	22.00
3	16QAM	8	4	20.88	20.99	20.46	22.00
3	16QAM	8	7	20.67	20.91	20.34	22.00
3	16QAM	15	0	20.64	20.83	20.31	22.00
3	64QAM	1	0	21.09	21.18	20.68	22.00
3	64QAM	1	8	20.96	21.07	20.53	22.00
3	64QAM	1	14	20.88	20.94	20.40	22.00
3	64QAM	8	0	19.76	19.88	19.47	21.00
3	64QAM	8	4	19.77	19.94	19.61	21.00
3	64QAM	8	7	19.93	20.01	19.58	21.00
3	64QAM	15	0	19.89	19.94	19.44	21.00
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	23.13	23.13	22.82	24.00
1.4	QPSK	1	3	22.99	23.11	22.47	24.00
1.4	QPSK	1	5	22.88	22.98	22.41	24.00
1.4	QPSK	3	0	23.09	23.27	22.66	24.00
1.4	QPSK	3	1	22.88	23.10	22.56	24.00
1.4	QPSK	3	3	22.93	23.02	22.45	24.00
1.4	QPSK	6	0	21.94	21.92	21.58	23.00
1.4	16QAM	1	0	21.78	21.84	21.46	23.00
1.4	16QAM	1	3	21.89	21.97	21.39	23.00
1.4	16QAM	1	5	21.56	21.78	21.29	23.00
1.4	16QAM	3	0	21.86	21.96	21.58	23.00
1.4	16QAM	3	1	21.80	21.89	21.54	23.00
1.4	16QAM	3	3	21.65	21.85	21.32	23.00
1.4	16QAM	6	0	20.71	20.80	20.25	22.00
1.4	64QAM	1	0	21.10	21.22	20.69	22.00
1.4	64QAM	1	3	20.93	21.16	20.55	22.00
1.4	64QAM	1	5	20.87	20.90	20.50	22.00
1.4	64QAM	3	0	20.80	20.89	20.39	22.00
1.4	64QAM	3	1	20.78	20.96	20.51	22.00
1.4	64QAM	3	3	20.92	20.96	20.65	22.00
1.4	64QAM	6	0	19.85	19.89	19.44	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	10.64	12.00	77.34
	39	2441	10.77	12.00	
	78	2480	10.56	12.00	
BR / EDR 2Mbps	0	2402	7.84	9.00	31.02
	39	2441	8.35	9.00	
	78	2480	7.98	9.00	
BR / EDR 3Mbps	0	2402	7.83	9.00	31.02
	39	2441	8.02	9.00	
	78	2480	7.99	9.00	
LE 1Mbps	0	2402	5.49	7.00	62.50
	19	2440	5.80	7.00	
	39	2480	5.87	7.00	

<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	16.16	17.50	98.94
	6	2437	16.70	17.50	
	11	2462	16.39	17.50	
802.11g 6Mbps	1	2412	14.49	16.00	98.25
	6	2437	14.94	16.00	
	11	2462	14.55	16.00	
802.11n-HT20 MCS0	1	2412	13.54	15.00	98.12
	6	2437	14.11	15.00	
	11	2462	13.63	15.00	
802.11n-HT40 MCS0	3	2422	11.18	13.00	94.82
	6	2437	11.39	13.00	
	9	2452	11.12	13.00	

【5.2GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	14.33	15.00	98.25
	40	5200	14.19	15.00	
	44	5220	14.04	15.00	
	48	5240	14.22	15.00	
802.11n-HT20 MCS0	36	5180	13.83	14.50	98.12
	40	5200	13.66	14.50	
	44	5220	13.80	14.50	
	48	5240	13.55	14.50	
802.11n-HT40 MCS0	38	5190	13.08	14.50	96.24
	46	5230	13.95	14.50	
802.11ac-VHT20 MCS0	36	5180	14.11	15.00	98.13
	40	5200	14.04	15.00	
	44	5220	14.37	15.00	
	48	5240	14.25	15.00	
802.11ac-VHT40 MCS0	38	5190	13.12	15.00	96.27
	46	5230	14.00	15.00	
802.11ac-VHT80 MCS0	42	5210	12.06	13.00	92.69

【5.3GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	14.70	15.50	98.25
	56	5280	14.49	15.50	
	60	5300	14.71	15.50	
	64	5320	14.65	15.50	
802.11n-HT20 MCS0	52	5260	13.45	14.50	98.12
	56	5280	13.20	14.50	
	60	5300	12.97	14.50	
	64	5320	12.81	14.50	
802.11n-HT40 MCS0	54	5270	13.59	14.50	96.24
	62	5310	13.05	14.50	
802.11ac-VHT20 MCS0	52	5260	14.52	15.50	98.13
	56	5280	14.35	15.50	
	60	5300	14.57	15.50	
	64	5320	14.45	15.50	
802.11ac-VHT40 MCS0	54	5270	13.63	15.00	96.27
	62	5310	13.08	15.00	
802.11ac-VHT80 MCS0	58	5290	11.39	13.00	92.69

【5.5GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	13.87	15.00	98.25
	116	5580	13.55	15.00	
	132	5660	13.26	15.00	
	140	5700	13.55	15.00	
802.11n-HT20 MCS0	100	5500	12.18	14.00	98.12
	116	5580	12.13	14.00	
	132	5660	12.11	14.00	
	140	5700	11.84	13.50	
802.11n-HT40 MCS0	102	5510	12.25	14.00	96.24
	110	5550	12.27	14.00	
	134	5670	12.39	14.00	
802.11ac-VHT20 MCS0	100	5500	13.71	15.00	98.13
	116	5580	13.35	15.00	
	132	5660	13.20	15.00	
	140	5700	13.26	15.00	
802.11ac-VHT40 MCS0	102	5510	12.29	14.00	96.27
	110	5550	12.33	14.00	
	134	5670	12.43	14.00	
802.11ac-VHT80 MCS0	106	5530	10.47	12.00	92.69

【5.8GHz WLAN】

Mode	Channel	Frequency (MHz)	Ant 1		
			Average Power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	13.79	15.00	98.25
	157	5785	13.91	15.00	
	165	5825	13.83	15.00	
802.11n-HT20 MCS0	149	5745	12.35	14.00	98.12
	157	5785	12.19	14.00	
	165	5825	11.77	13.50	
802.11n-HT40 MCS0	151	5755	12.71	14.00	96.24
	159	5795	12.24	14.00	
802.11ac-VHT20 MCS0	149	5745	13.63	15.00	98.13
	157	5785	13.71	15.00	
	165	5825	13.64	15.00	
802.11ac-VHT40 MCS0	151	5755	12.74	14.00	96.27
	159	5795	12.28	14.00	
802.11ac-VHT80 MCS0	155	5775	10.81	12.00	92.69