



REPORT No.: SZ21080296S01

Annex E1 Conducted Full Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	33.47	33.35	33.40	34.00	24.47	24.35	24.40	25.00	0.12
GPRS 1 Tx slot	33.46	33.36	33.41	34.00	24.46	24.36	24.41	25.00	
GPRS 2 Tx slots	31.40	31.45	31.42	32.00	25.40	25.45	25.42	26.00	0.05
GPRS 3 Tx slots	29.48	29.42	29.55	30.00	25.22	25.16	25.29	25.74	0.13
GPRS 4 Tx slots	27.18	27.12	27.06	28.00	24.18	24.12	24.06	25.00	0.12
EDGE 1 Tx slot	26.57	26.48	26.42	27.00	17.57	17.48	17.42	18.00	0.15
EDGE 2 Tx slots	25.42	25.37	25.67	26.00	19.42	19.37	19.67	20.00	0.30
EDGE 3 Tx slots	22.39	22.56	22.68	23.00	18.13	18.30	18.42	18.74	0.29
EDGE 4 Tx slots	20.12	20.11	20.15	21.00	17.12	17.11	17.15	18.00	0.04

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	30.69	30.70	30.68	31.50	21.69	21.70	21.68	22.50	0.04
GPRS 1 Tx slot	30.69	30.72	30.69	31.50	21.69	21.72	21.69	22.50	
GPRS 2 Tx slots	28.63	28.67	28.61	29.00	22.63	22.67	22.61	23.00	0.06
GPRS 3 Tx slots	26.58	26.62	26.61	27.00	22.32	22.36	22.35	22.74	0.04
GPRS 4 Tx slots	24.71	24.76	24.53	25.00	21.71	21.76	21.53	22.00	0.23
EDGE 1 Tx slot	26.32	26.42	26.35	27.00	17.32	17.42	17.35	18.00	0.10
EDGE 2 Tx slots	24.42	24.43	24.51	25.00	18.42	18.43	18.51	19.00	0.09
EDGE 3 Tx slots	22.62	22.45	22.41	23.00	18.36	18.19	18.15	18.74	0.21
EDGE 4 Tx slots	20.16	20.17	20.18	21.00	17.16	17.17	17.18	18.00	0.02

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	24.23	24.38	24.31	25.00	22.52	22.54	22.51	23.00	22.80	22.85	22.81	23.50
3GPP Rel 6 HSDPA Subtest-1	23.02	23.12	23.14	24.00	22.48	22.38	22.39	23.00	21.86	21.68	21.42	22.50
3GPP Rel 6 HSDPA Subtest-2	22.70	22.79	22.80	23.50	22.40	22.29	22.43	23.00	21.48	21.38	21.17	22.50
3GPP Rel 6 HSDPA Subtest-3	22.86	22.97	22.94	23.50	22.34	22.22	22.40	23.00	21.17	21.02	20.86	22.00
3GPP Rel 6 HSDPA Subtest-4	22.54	22.66	22.64	23.50	22.34	22.23	22.41	23.00	21.08	20.94	20.77	22.00
3GPP Rel 6 HSUPA Subtest-1	22.95	23.03	23.04	24.00	22.37	22.22	22.35	23.00	22.48	22.18	22.02	23.00
3GPP Rel 6 HSUPA Subtest-2	22.91	23.01	23.04	24.00	22.39	22.24	22.32	23.00	22.60	22.22	22.03	23.00
3GPP Rel 6 HSUPA Subtest-3	22.95	23.04	23.01	24.00	22.33	22.14	22.29	23.00	22.32	22.08	21.92	23.00
3GPP Rel 6 HSUPA Subtest-4	22.90	23.02	23.02	24.00	22.42	22.26	22.29	23.00	22.64	22.21	22.03	23.00
3GPP Rel 6 HSUPA Subtest-5	22.92	23.04	23.00	24.00	22.32	22.20	22.30	23.00	22.41	22.14	21.96	23.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-	22.96	23.02	22.92	24.00	22.20	22.03	22.24	23.00	21.96	21.91	21.73	22.50

LTE Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	23.59	23.62	23.56	24	
20	QPSK	1	49	23.57	23.51	23.44		
20	QPSK	1	99	23.51	23.47	23.45		
20	QPSK	50	0	22.52	22.61	22.54		
20	QPSK	50	24	22.53	22.58	22.58	23	
20	QPSK	50	50	22.58	22.54	22.60		
20	QPSK	100	0	22.51	22.60	22.56		
20	16QAM	1	0	22.57	22.57	22.59		
20	16QAM	1	49	22.41	22.71	22.67	23	
20	16QAM	1	99	22.66	22.51	22.91		
20	16QAM	50	0	22.59	22.56	22.54		
20	16QAM	50	24	22.55	22.60	22.61		
20	16QAM	50	50	22.63	22.60	22.67	23	
20	16QAM	100	0	22.66	22.67	22.54		
20	64QAM	1	0	22.61	22.80	22.54		
20	64QAM	1	49	22.56	22.74	22.65		
20	64QAM	1	99	22.51	22.84	22.84	23	
20	64QAM	50	0	22.61	22.53	22.58		
20	64QAM	50	24	22.64	22.58	22.63		
20	64QAM	50	50	22.63	22.64	22.58		
20	64QAM	100	0	22.51	22.48	22.49		
Channel				18675	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	23.40	23.43	23.34	24	
15	QPSK	1	37	23.19	23.55	23.43		
15	QPSK	1	74	23.56	23.48	23.56		
15	QPSK	36	0	22.38	22.47	22.46		
15	QPSK	36	20	22.37	22.56	22.53	23	
15	QPSK	36	39	22.49	22.50	22.47		
15	QPSK	75	0	22.41	22.47	22.43		
15	16QAM	1	0	22.50	22.58	22.52		
15	16QAM	1	37	22.63	22.66	22.52	23	
15	16QAM	1	74	22.58	22.70	22.70		
15	16QAM	36	0	22.37	22.42	22.45		
15	16QAM	36	20	22.46	22.39	22.52		
15	16QAM	36	39	22.51	22.60	22.57	23	
15	16QAM	75	0	22.38	22.40	22.49		
15	64QAM	1	0	22.58	22.34	22.40		
15	64QAM	1	37	22.57	22.38	22.80		
15	64QAM	1	74	22.46	22.50	22.65	23	
15	64QAM	36	0	22.31	22.48	22.36		
15	64QAM	36	20	22.51	22.53	22.43		
15	64QAM	36	39	22.39	22.44	22.53		
15	64QAM	75	0	22.38	22.45	22.44		
Channel				18650	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	23.37	23.36	23.46	24	
10	QPSK	1	25	23.48	23.58	23.46		
10	QPSK	1	49	23.37	23.45	23.37		
10	QPSK	25	0	22.49	22.50	22.46		
10	QPSK	25	12	22.45	22.57	22.50	23	
10	QPSK	25	25	22.36	22.49	22.45		
10	QPSK	50	0	22.42	22.51	22.49		
10	16QAM	1	0	22.90	22.83	22.82		
10	16QAM	1	25	22.59	22.55	22.62	23	
10	16QAM	1	49	22.54	22.62	22.41		
10	16QAM	25	0	22.44	22.43	22.40		
10	16QAM	25	12	22.60	22.40	22.40		
10	16QAM	25	25	22.40	22.60	22.70	23	
10	16QAM	50	0	22.97	22.90	22.94		
10	64QAM	1	0	22.48	22.53	22.53		
10	64QAM	1	25	22.51	22.56	22.60		
10	64QAM	1	49	22.18	22.31	22.28	23	
10	64QAM	25	0	22.48	22.52	22.53		
10	64QAM	25	12	22.51	22.49	22.50		
10	64QAM	25	25	22.44	22.22	22.44		
10	64QAM	50	0	22.45	22.45	22.42		
Channel				18625	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	23.51	23.56	23.50	24	
5	QPSK	1	12	23.50	23.45	23.48		
5	QPSK	1	24	23.46	23.54	23.55		
5	QPSK	12	0	22.48	22.39	22.46		
5	QPSK	12	7	22.49	22.54	22.46	23	
5	QPSK	12	13	22.48	22.47	22.50		
5	QPSK	25	0	22.47	22.45	22.47		
5	16QAM	1	0	22.60	22.50	22.88		
5	16QAM	1	12	22.58	22.51	22.88	23	
5	16QAM	1	24	22.61	22.48	22.87		
5	16QAM	12	0	22.70	22.84	22.70		
5	16QAM	12	7	22.60	22.60	22.40		
5	16QAM	12	13	22.40	22.73	22.50	23	
5	16QAM	25	0	22.50	22.96	22.94		
5	64QAM	1	0	22.70	22.42	22.47		
5	64QAM	1	12	22.86	22.52	22.63		
5	64QAM	1	24	22.87	22.51	22.53	23	
5	64QAM	12	0	22.52	22.45	22.44		
5	64QAM	12	7	22.58	22.42	22.42		
5	64QAM	12	13	22.55	22.51	22.49		
5	64QAM	25	0	22.62	22.42	22.49		
Channel				18615	18900	19185	Tune-up limit (dBm)	
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	23.45	23.52	23.44	24	
3	QPSK	1	8	23.55	23.58	23.41		
3	QPSK	1	14	23.56	23.43	23.43		
3	QPSK	8	0	22.36	22.31	22.33		
3	QPSK	8	4	22.42	22.36	22.37	23	
3	QPSK	8	7	22.42	22.36	22.32		
3	QPSK	15	0	22.34	22.42	22.35		
3	16QAM	1	0	22.50	22.41	22.35		
3	16QAM	1	8	22.54	22.48	22.44	23	
3	16QAM	1	14	22.47	22.44	22.32		
3	16QAM	8	0	22.90	23.03	22.95		
3	16QAM	8	4	22.97	22.94	23.00		

LTE Band 4								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	23.59	23.67	23.66	24	
20	QPSK	1	49	23.45	23.53	23.52		
20	QPSK	1	99	23.37	23.50	23.62		
20	QPSK	50	0	22.49	22.62	22.59		
20	QPSK	50	24	22.49	22.57	22.57	23	
20	QPSK	50	50	22.36	22.49	22.50		
20	QPSK	100	0	22.48	22.52	22.59		
20	16QAM	1	0	22.35	22.65	22.52		
20	16QAM	1	49	22.50	22.27	22.41	23	
20	16QAM	1	99	22.29	22.51	22.35		
20	16QAM	50	0	22.48	22.41	22.55		
20	16QAM	50	24	22.74	22.85	22.74		
20	16QAM	50	50	22.70	22.71	22.71	23	
20	16QAM	100	0	22.72	22.80	22.81		
20	64QAM	1	0	22.46	22.57	22.79		
20	64QAM	1	49	22.50	22.43	22.31		
20	64QAM	1	99	22.77	22.34	22.81	23	
20	64QAM	50	0	22.47	22.56	22.51		
20	64QAM	50	24	22.49	22.60	22.54		
20	64QAM	50	50	22.53	22.48	22.50		
20	64QAM	100	0	22.56	22.54	22.63		
Channel				20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	23.46	23.50	23.60	24	
15	QPSK	1	37	23.50	23.59	23.51		
15	QPSK	1	74	23.37	23.59	23.62		
15	QPSK	36	0	22.43	22.50	22.53		
15	QPSK	36	20	22.47	22.60	22.56	23	
15	QPSK	36	39	22.52	22.51	22.60		
15	QPSK	75	0	22.47	22.49	22.50		
15	16QAM	1	0	22.41	22.63	22.35		
15	16QAM	1	37	22.49	22.49	22.33	23	
15	16QAM	1	74	22.35	22.65	22.44		
15	16QAM	36	0	22.36	22.38	22.57		
15	16QAM	36	20	22.31	22.38	22.44		
15	16QAM	36	39	22.27	22.36	22.42	23	
15	16QAM	75	0	22.38	22.39	22.48		
15	64QAM	1	0	22.33	22.64	22.69		
15	64QAM	1	37	22.75	22.51	22.57		
15	64QAM	1	74	22.79	22.50	22.54	23	
15	64QAM	36	0	22.44	22.51	22.55		
15	64QAM	36	20	22.50	22.52	22.54		
15	64QAM	36	39	22.53	22.49	22.51		
15	64QAM	75	0	22.46	22.57	22.50		
Channel				20000	20175	20350	Tune-up limit (dBm)	
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	23.38	23.57	23.40	24	
10	QPSK	1	25	23.36	23.49	23.50		
10	QPSK	1	49	23.44	23.27	23.50		
10	QPSK	25	0	22.26	22.48	22.50		
10	QPSK	25	12	22.38	22.44	22.48	23	
10	QPSK	25	25	22.27	22.38	22.45		
10								

3	16QAM	8	7	22.87	22.92	22.95	23
3	16QAM	15	0	22.90	22.94	22.89	
3	64QAM	1	0	22.43	22.36	22.39	
3	64QAM	1	8	22.85	22.84	22.44	
3	64QAM	1	14	22.46	22.82	22.46	
3	64QAM	8	0	22.38	22.40	22.24	
3	64QAM	8	4	22.48	22.38	22.38	
3	64QAM	8	7	22.58	22.47	22.33	
3	64QAM	15	0	22.43	22.43	22.41	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.51	23.54	23.49	24
1.4	QPSK	1	3	23.41	23.39	23.38	
1.4	QPSK	1	5	23.38	23.36	23.34	
1.4	QPSK	3	0	23.38	23.38	23.34	
1.4	QPSK	3	1	23.42	23.39	23.37	
1.4	QPSK	3	3	23.44	23.48	23.37	
1.4	QPSK	6	0	22.32	22.30	22.29	23
1.4	16QAM	1	0	22.35	22.35	22.29	
1.4	16QAM	1	3	22.31	22.51	22.49	23
1.4	16QAM	1	5	22.19	22.39	22.07	
1.4	16QAM	3	0	22.21	22.26	22.23	
1.4	16QAM	3	1	22.39	22.21	22.26	
1.4	16QAM	3	3	22.41	22.38	22.12	
1.4	16QAM	6	0	22.42	22.35	22.30	
1.4	64QAM	1	0	22.30	22.22	22.25	23
1.4	64QAM	1	3	22.32	22.53	22.41	
1.4	64QAM	1	5	22.30	22.65	22.24	
1.4	64QAM	3	0	22.33	22.39	22.40	
1.4	64QAM	3	1	22.42	22.39	22.60	
1.4	64QAM	3	3	22.34	22.48	22.25	
1.4	64QAM	6	0	22.39	22.42	22.31	

3	16QAM	8	7	22.66	22.74	22.78	23
3	16QAM	15	0	22.66	22.64	22.71	
3	64QAM	1	0	22.33	22.42	22.40	
3	64QAM	1	8	22.52	22.40	22.56	
3	64QAM	1	14	22.33	22.40	22.23	
3	64QAM	8	0	22.31	22.35	22.29	
3	64QAM	8	4	22.43	22.41	22.45	
3	64QAM	8	7	22.37	22.44	22.56	
3	64QAM	15	0	22.33	22.41	22.32	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.15	23.36	23.37	24
1.4	QPSK	1	3	23.49	23.49	23.53	
1.4	QPSK	1	5	23.35	23.44	23.46	
1.4	QPSK	3	0	23.43	23.40	23.39	
1.4	QPSK	3	1	23.39	23.49	23.54	
1.4	QPSK	3	3	23.38	23.45	23.44	
1.4	QPSK	6	0	22.37	22.39	22.35	23
1.4	16QAM	1	0	22.31	22.78	22.44	
1.4	16QAM	1	3	22.44	22.52	22.56	23
1.4	16QAM	1	5	22.50	22.66	22.46	
1.4	16QAM	3	0	22.53	22.57	22.48	
1.4	16QAM	3	1	22.54	22.57	22.59	
1.4	16QAM	3	3	22.53	22.65	22.54	
1.4	16QAM	6	0	22.44	22.45	22.36	
1.4	64QAM	1	0	22.22	22.16	22.30	23
1.4	64QAM	1	3	22.48	22.46	22.58	
1.4	64QAM	1	5	22.39	22.35	22.19	
1.4	64QAM	3	0	22.30	22.28	22.47	
1.4	64QAM	3	1	22.21	22.36	22.33	
1.4	64QAM	3	3	22.27	22.44	22.32	
1.4	64QAM	6	0	22.26	22.27	22.34	

LTE Band 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.41	23.42	23.34	24
10	QPSK	1	25	23.27	23.30	23.10	
10	QPSK	1	49	23.19	23.31	22.99	
10	QPSK	25	0	22.72	22.74	22.65	
10	QPSK	25	12	22.48	22.50	22.55	23
10	QPSK	25	25	22.48	22.59	22.64	
10	QPSK	50	0	22.54	22.42	22.56	
10	QPSK	1	0	22.43	22.62	22.33	
10	16QAM	1	25	22.66	22.69	22.37	23
10	16QAM	1	49	22.49	22.55	22.62	
10	16QAM	25	0	22.58	22.59	22.41	
10	16QAM	25	12	22.52	22.60	22.38	
10	16QAM	25	25	22.55	22.48	22.51	23
10	16QAM	50	0	22.56	22.47	22.37	
10	64QAM	1	0	22.52	22.62	22.50	
10	64QAM	1	25	22.49	22.69	22.49	
10	64QAM	1	49	22.38	22.60	22.51	23
10	64QAM	25	0	22.49	22.60	22.27	
10	64QAM	25	12	22.48	22.65	22.36	
10	64QAM	25	25	22.60	22.49	22.19	
10	64QAM	50	0	22.56	22.52	22.38	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.36	23.32	23.30	24
5	QPSK	1	12	23.26	23.37	23.21	
5	QPSK	1	24	23.26	23.21	23.21	
5	QPSK	12	0	22.63	22.68	22.54	
5	QPSK	12	7	22.70	22.71	22.63	23
5	QPSK	12	13	22.75	22.59	22.54	
5	QPSK	25	0	22.51	22.47	22.39	
5	16QAM	1	0	22.65	22.58	22.49	
5	16QAM	1	12	22.35	22.57	22.48	23
5	16QAM	1	24	22.22	22.57	22.55	
5	16QAM	12	0	22.31	22.40	22.54	
5	16QAM	12	7	22.38	22.41	22.38	
5	16QAM	12	13	22.38	22.29	22.49	23
5	16QAM	25	0	22.39	22.44	22.54	
5	64QAM	1	0	22.46	22.34	22.60	
5	64QAM	1	12	22.34	22.28	22.57	
5	64QAM	1	24	22.63	22.47	22.41	23
5	64QAM	12	0	22.35	22.49	22.29	
5	64QAM	12	7	22.39	22.55	22.33	
5	64QAM	12	13	22.57	22.52	22.09	
5	64QAM	25	0	22.45	22.52	22.13	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.05	23.36	23.21	24
3	QPSK	1	8	23.31	23.32	23.23	
3	QPSK	1	14	23.32	23.30	23.04	
3	QPSK	8	0	22.41	22.54	22.52	
3	QPSK	8	4	22.55	22.61	22.58	23
3	QPSK	8	7	22.50	22.52	22.39	
3	QPSK	15	0	22.48	22.54	22.53	
3	16QAM	1	0	22.50	22.61	22.68	
3	16QAM	1	8	22.43	22.69	22.53	23
3	16QAM	1	14	22.48	22.74	22.49	
3	16QAM	8	0	22.44	22.53	22.27	
3	16QAM	8	4	22.60	22.71	22.28	
3	16QAM	8	7	22.52	22.58	22.32	23
3	16QAM	15	0	22.46	22.48	22.03	
3	64QAM	1	0	22.41	22.29	22.50	
3	64QAM	1	8	22.29	22.53	22.29	
3	64QAM	1	14	22.31	22.49	22.30	23
3	64QAM	8	0	22.41	22.51	22.49	
3	64QAM	8	4	22.63	22.47	22.41	
3	64QAM	8	7	22.58	22.50	22.47	
3	64QAM	15	0	22.47	22.57	22.37	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.26	23.33	23.37	24
1.4	QPSK	1	3	23.39	23.32	23.39	
1.4	QPSK	1	5	23.28	23.22	23.23	
1.4	QPSK	3	0	23.29	23.35	23.31	
1.4	QPSK	3	1	23.35	23.22	23.32	23
1.4	QPSK	3	3	23.36	23.28	23.28	
1.4	QPSK	6	0	22.46	22.45	22.44	
1.4	16QAM	1	0	22.59	22.40	22.57	
1.4	16QAM	1	3	22.39	22.63	22.52	23
1.4	16QAM	1	5	22.78	22.46	22.52	
1.4	16QAM	3	0	22.31	22.29	22.43	
1.4	16QAM	3	1	22.34	22.61	22.47	
1.4	16QAM	3	3	22.42	22.53	22.41	23
1.4	16QAM	6	0	22.61	22.48	22.52	
1.4	64QAM	1	0	22.14	22.31	22.33	
1.4	64QAM	1	3	22.45	22.46	22.41	
1.4	64QAM	1	5	22.40	22.39	22.27	23
1.4	64QAM	3	0	22.06	22.33	22.34	
1.4	64QAM	3	1	22.34	22.28	22.29	
1.4	64QAM	3	3	22.24	22.41	22.45	
1.4	64QAM	6	0	22.45	22.57	22.46	
Channel				20407	20525	20643	

LTE Band 7							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.60	23.61	23.53	24
20	QPSK	1	49	23.55	23.59	23.48	
20	QPSK	1	99	23.50	23.45	23.50	
20	QPSK	50	0	22.46	22.53	22.50	
20	QPSK	50	24	22.22	22.19	22.09	23
20	QPSK	50	50	22.32	22.35	22.32	
20	QPSK	100	0	22.27	22.29	22.26	
20	16QAM	1	0	22.08	22.18	22.36	
20	16QAM	1	49	22.23	22.09	22.37	23
20	16QAM	1	99	22.17	22.48	22.13	
20	16QAM	50	0	22.02	22.12	22.05	
20	16QAM	50	24	22.07	21.99	22.10	
20	16QAM	50	50	22.15	22.20	22.03	23
20	16QAM	100	0	22.03	22.15	22.13	
20	64QAM	1	0	22.51	22.35	22.08	
20	64QAM	1	49	22.45	22.42	22.47	
20	64QAM	1	99	22.43	22.48	22.39	23
20	64QAM	50	0	22.17	22.18	22.23	
20	64QAM	50	24	22.22	22.23	22.23	
20	64QAM	50	50	22.26	22.33	22.18	
20	64QAM	100	0	22.19	22.16	22.28	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.43	23.52	23.52	24
15	QPSK	1	37	23.53	23.50	23.54	
15	QPSK	1	74	23.47	23.54	23.54	
15	QPSK	36	0	22.25	22.34	22.36	
15	QPSK	36	20	22.33	22.40	22.35	23
15	QPSK	36	39	22.36	22.39	22.43	
15	QPSK	75	0	22.42	22.35	22.37	
15	16QAM	1	0	22.58	22.69	22.76	
15	16QAM	1	37	22.40	22.51	22.49	23
15	16QAM	1	74	22.44	22.44	22.66	
15	16QAM	36	0	22.03	22.14	22.16	
15	16QAM	36	20	22.10	22.13	22.12	
15	16QAM	36	39	22.16	22.14	22.03	23
15	16QAM	75	0	22.11	22.19	22.11	
15	64QAM	1	0	22.41	22.38	22.26	
15	64QAM	1	37	22.31	22.46	22.55	
15	64QAM	1	74	22.30	22.42	22.48	23
15	64QAM	36	0	22.15	22.23	22.22	
15	64QAM	36	20	22.26	22.25	22.32	
15	64QAM	36	39	22.30	22.21	22.23	
15	64QAM	75	0	22.15	22.25	22.20	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.42	23.29	23.32	24
10	QPSK	1	25	23.45	23.35	23.37	
10	QPSK	1	49	23.38	23.35	23.37	
10	QPSK	25	0	22.32	22.32	22.31	
10	QPSK	25	12	22.28	22.40	22.45	23
10	QPSK	25	25	22.21	22.39	22.39	
10	QPSK	50	0	22.30	22.42	22.41	
10	16QAM	1	0	22.35	22.53	22.38	
10	16QAM	1	25	22.34	22.36	22.41	23
10	16QAM	1	49	22.81	22.71	22.62	
10	16QAM	25	0	22.24	22.12	22.20	
10	16QAM	25	12	22.06	22.23	22.16	
10	16QAM	25	25	22.11	22.14	22.06	23
10	16QAM	50	0	22.14	22.23	22.08	
10	64QAM	1	0	22.56	22.52	22.50	
10	64QAM	1	25	22.25	22.50	22.33	
10	64QAM	1	49	22.36	22.60	22.41	23
10	64QAM	25	0	22.22	22.20	22.24	
10	64QAM	25	12	22.24	22.35	22.28	
10	64QAM	25	25	22.17	22.07	22.06	
10	64QAM	50	0	22.11	22.17	22.09	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1					

LTE Band 12							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.46	23.52	23.45	24
10	QPSK	1	25	23.22	23.35	23.38	
10	QPSK	1	49	23.32	23.33	23.32	
10	QPSK	25	0	22.61	22.71	22.62	23
10	QPSK	25	12	22.58	22.52	22.31	
10	QPSK	25	25	22.63	22.69	22.62	
10	QPSK	50	0	22.64	22.66	22.57	23
10	16QAM	1	0	22.57	22.12	22.25	
10	16QAM	1	25	22.32	22.27	22.41	
10	16QAM	1	49	22.41	22.46	22.35	23
10	16QAM	25	0	22.30	22.32	22.26	
10	16QAM	25	12	22.34	22.38	22.27	
10	16QAM	25	25	22.39	22.40	22.34	23
10	16QAM	50	0	22.29	22.37	22.42	
10	64QAM	1	0	22.14	22.26	22.60	
10	64QAM	1	25	22.58	22.64	22.23	23
10	64QAM	1	49	22.60	22.28	22.21	
10	64QAM	25	0	22.11	22.05	22.02	
10	64QAM	25	12	22.16	22.19	22.11	23
10	64QAM	25	25	22.21	22.18	22.18	
10	64QAM	50	0	22.13	22.06	22.17	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.11	23.44	23.22	24
5	QPSK	1	12	23.27	23.43	23.27	
5	QPSK	1	24	23.23	23.42	23.28	
5	QPSK	12	0	22.34	22.41	22.40	23
5	QPSK	12	7	22.45	22.47	22.44	
5	QPSK	12	13	22.40	22.43	22.40	
5	QPSK	25	0	22.36	22.48	22.44	23
5	16QAM	1	0	22.37	22.39	22.41	
5	16QAM	1	12	22.54	22.49	22.50	
5	16QAM	1	24	22.50	22.48	22.44	23
5	16QAM	12	0	22.24	22.21	22.24	
5	16QAM	12	7	22.38	22.43	22.27	
5	16QAM	12	13	22.33	22.30	22.35	23
5	16QAM	25	0	22.34	22.30	22.32	
5	64QAM	1	0	22.12	22.13	22.18	
5	64QAM	1	12	22.57	22.27	22.20	23
5	64QAM	1	24	22.55	22.24	22.29	
5	64QAM	12	0	22.09	22.11	22.06	
5	64QAM	12	7	22.19	22.07	22.13	23
5	64QAM	12	13	22.06	22.16	22.21	
5	64QAM	25	0	22.21	22.17	22.14	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.19	23.46	23.13	24
3	QPSK	1	8	23.37	23.36	23.26	
3	QPSK	1	14	23.31	23.42	23.37	
3	QPSK	8	0	22.42	22.40	22.40	23
3	QPSK	8	4	22.45	22.48	22.49	
3	QPSK	8	7	22.40	22.48	22.42	
3	QPSK	15	0	22.39	22.47	22.33	23
3	16QAM	1	0	22.40	22.76	22.35	
3	16QAM	1	8	22.60	22.58	22.53	
3	16QAM	1	14	22.43	22.48	22.34	23
3	16QAM	8	0	22.40	22.29	22.32	
3	16QAM	8	4	22.45	22.42	22.53	
3	16QAM	8	7	22.29	22.32	22.38	23
3	16QAM	15	0	22.27	22.20	22.19	
3	64QAM	1	0	22.13	22.47	22.46	
3	64QAM	1	8	22.42	22.32	22.33	23
3	64QAM	1	14	22.35	22.20	22.31	
3	64QAM	8	0	22.02	22.10	22.01	
3	64QAM	8	4	22.11	22.15	22.14	23
3	64QAM	8	7	22.10	22.02	22.17	
3	64QAM	15	0	22.09	22.11	22.03	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.22	23.39	23.19	24
1.4	QPSK	1	3	23.33	23.32	23.34	
1.4	QPSK	1	5	23.22	23.27	23.23	
1.4	QPSK	3	0	23.17	23.30	23.28	23
1.4	QPSK	3	1	23.38	23.38	23.05	
1.4	QPSK	3	3	23.33	23.35	23.31	
1.4	QPSK	6	0	22.39	22.36	22.34	23
1.4	16QAM	1	0	22.43	22.37	22.22	
1.4	16QAM	1	3	22.24	22.67	22.34	
1.4	16QAM	1	5	22.36	22.37	22.36	23
1.4	16QAM	3	0	22.20	22.23	22.24	
1.4	16QAM	3	1	22.36	22.44	22.28	
1.4	16QAM	3	3	22.19	22.33	22.33	23
1.4	16QAM	6	0	22.12	22.32	22.22	
1.4	64QAM	1	0	21.97	22.12	21.96	
1.4	64QAM	1	3	22.09	22.02	22.07	23
1.4	64QAM	1	5	22.25	22.28	22.24	
1.4	64QAM	3	0	22.15	22.16	21.99	
1.4	64QAM	3	1	22.13	22.37	22.22	23
1.4	64QAM	3	3	22.15	21.99	22.15	
1.4	64QAM	6	0	22.11	22.12	21.99	

LTE Band 17							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.40	23.43	23.40	24
10	QPSK	1	25	23.28	23.24	23.30	
10	QPSK	1	49	23.21	23.24	23.19	
10	QPSK	25	0	22.51	22.57	22.49	23
10	QPSK	25	12	22.36	22.30	22.44	
10	QPSK	25	25	22.34	22.34	22.43	
10	QPSK	50	0	22.47	22.34	22.35	23
10	16QAM	1	0	22.20	22.39	22.53	
10	16QAM	1	25	22.41	22.70	22.54	
10	16QAM	1	49	22.37	22.62	22.67	23
10	16QAM	25	0	22.31	22.55	22.54	
10	16QAM	25	12	22.37	22.52	22.50	
10	16QAM	25	25	22.20	22.46	22.51	23
10	16QAM	50	0	22.24	22.53	22.50	
10	64QAM	1	0	22.21	22.54	22.22	
10	64QAM	1	25	22.44	22.34	22.24	23
10	64QAM	1	49	22.18	22.21	22.21	
10	64QAM	25	0	22.36	22.53	22.51	
10	64QAM	25	12	22.28	22.36	22.53	23
10	64QAM	25	25	22.22	22.43	22.59	
10	64QAM	50	0	22.29	22.52	22.53	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.34	23.30	23.26	24
5	QPSK	1	12	23.33	23.29	23.28	
5	QPSK	1	24	23.25	23.31	23.30	
5	QPSK	12	0	22.41	22.59	22.75	23
5	QPSK	12	7	22.50	22.38	22.46	
5	QPSK	12	13	22.42	22.40	22.46	
5	QPSK	25	0	22.35	22.50	22.50	23
5	16QAM	1	0	22.39	22.44	22.16	
5	16QAM	1	12	22.56	22.12	22.49	
5	16QAM	1	24	22.40	22.45	22.61	23
5	16QAM	12	0	22.08	22.11	22.32	
5	16QAM	12	7	22.08	22.15	22.27	
5	16QAM	12	13	21.99	22.24	22.27	23
5	16QAM	25	0	22.33	22.45	22.49	
5	64QAM	1	0	22.13	22.14	22.14	
5	64QAM	1	12	22.17	22.14	22.22	23
5	64QAM	1	24	22.22	22.22	22.14	
5	64QAM	12	0	22.28	22.33	22.57	
5	64QAM	12	7	22.41	22.49	22.43	23
5	64QAM	12	13	22.26	22.44	22.46	
5	64QAM	25	0	22.23	22.42	22.58	

LTE Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.18	23.24	23.22	24
20	QPSK	1	49	23.03	23.02	22.98	
20	QPSK	1	99	22.96	22.95	22.98	
20	QPSK	50	0	22.41	22.48	22.44	
20	QPSK	50	24	22.22	22.24	22.37	23
20	QPSK	50	50	22.26	22.34	22.22	
20	QPSK	100	0	22.24	22.24	22.16	
20	16QAM	1	0	22.29	22.05	22.33	
20	16QAM	1	49	22.34	22.08	22.14	23
20	16QAM	1	99	22.34	22.52	22.31	
20	16QAM	50	0	22.46	22.43	22.40	
20	16QAM	50	24	22.35	22.35	22.36	23
20	16QAM	50	50	22.32	22.24	22.20	
20	16QAM	100	0	22.28	22.31	22.37	
20	64QAM	1	0	22.44	22.21	22.54	
20	64QAM	1	49	22.21	22.54	22.53	23
20	64QAM	1	99	22.44	22.56	22.64	
20	64QAM	50	0	22.40	22.30	22.43	
20	64QAM	50	24	22.34	22.28	22.40	
20	64QAM	50	50	22.36	22.24	22.30	23
20	64QAM	100	0	22.35	22.35	22.33	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.04	23.08	23.06	24
15	QPSK	1	37	23.18	23.04	23.02	
15	QPSK	1	74	23.02	22.98	22.96	
15	QPSK	36	0	22.23	22.20	22.24	
15	QPSK	36	20	22.23	22.15	22.25	23
15	QPSK	36	39	22.09	22.14	22.11	
15	QPSK	75	0	22.18	22.22	22.15	
15	16QAM	1	0	22.17	22.04	22.34	
15	16QAM	1	37	22.04	22.34	22.27	23
15	16QAM	1	74	22.14	22.04	22.04	
15	16QAM	36	0	22.35	22.35	22.26	
15	16QAM	36	20	22.38	22.37	22.43	
15	16QAM	36	39	22.30	22.45	22.39	23
15	16QAM	75	0	22.40	22.38	22.34	
15	64QAM	1	0	22.54	22.44	22.54	
15	64QAM	1	37	22.56	22.34	22.44	
15	64QAM	1	74	22.21	22.47	22.54	23
15	64QAM	36	0	22.33	22.32	22.45	
15	64QAM	36	20	22.43	22.39	22.40	
15	64QAM	36	39	22.32	22.26	22.30	
15	64QAM	75	0	22.34	22.36	22.33	23
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.02	23.02	23.03	24
10	QPSK	1	25	22.92	22.90	22.98	
10	QPSK	1	49	23.06	22.94	22.84	
10	QPSK	25	0	22.49	22.42	22.49	
10	QPSK	25	12	22.46	22.65	22.43	23
10	QPSK	25	25	22.47	22.43	22.35	
10	QPSK	50	0	22.55	22.40	22.59	
10	16QAM	1	0	22.47	22.47	22.67	
10	16QAM	1	25	22.47	22.56	22.68	23
10	16QAM	1	49	22.30	22.50	22.38	
10	16QAM	25	0	22.31	22.48	22.36	
10	16QAM	25	12	22.30	22.50	22.41	
10	16QAM	25	25	22.21	22.26	22.26	23
10	16QAM	50	0	22.37	22.41	22.42	
10	64QAM	1	0	22.37	22.37	22.04	
10	64QAM	1	25	22.04	22.17	22.07	
10	64QAM	1	49	22.04	22.04	22.04	23
10	64QAM	25	0	22.37	22.35	22.37	
10	64QAM	25	12	22.36	22.40	22.44	
10	64QAM	25	25	22.36	22.29	22.31	
10	64QAM	50	0	22.26	22.36	22.37	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.91	22.94	22.99	24
5	QPSK	1	12	22.94	22.94	22.93	
5	QPSK	1	24	23.02	22.92	22.98	
5	QPSK	12	0	22.18	22.20	22.16	
5	QPSK	12	7	22.20	22.28	22.21	23
5	QPSK	12	13	22.11	22.17	22.18	
5	QPSK	25	0	22.21	22.22	22.21	
5	16QAM	1	0	22.70	22.39	22.40	
5	16QAM	1	12	22.33	22.62	22.57	23
5	16QAM	1	24	22.45	22.34	22.69	
5	16QAM	12	0	22.34	22.45	22.41	
5	16QAM	12	7	22.51	22.43	22.55	
5	16QAM	12	13	22.42	22.36	22.43	23
5	16QAM	25	0	22.43	22.45	22.37	
5	64QAM	1	0	22.04	22.44	22.24	
5	64QAM	1	12	22.34	22.34	22.34	
5	64QAM	1	24	22.17	22.21	22.17	23
5	64QAM	12	0	22.41	22.16	22.37	
5	64QAM	12	7	22.49	22.08	22.39	
5	64QAM	12	13	22.32	22.44	22.39	
5	64QAM	25	0	22.39	22.47	22.34	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.98	22.89	22.88	24
3	QPSK	1	8	22.85	22.86	22.94	
3	QPSK	1	14	22.76	22.57	22.87	
3	QPSK	8	0	22.44	22.41	22.45	
3	QPSK	8	4	22.44	22.36	22.46	23
3	QPSK	8	7	22.30	22.35	22.32	
3	QPSK	15	0	22.39	22.43	22.36	
3	16QAM	1	0	22.08	22.49	22.25	
3	16QAM	1	8	22.41	22.35	22.34	23
3	16QAM	1	14	22.45	22.34	22.04	
3	16QAM	8	0	22.26	22.26	22.17	
3	16QAM	8	4	22.29	22.28	22.34	

3	16QAM	8	7	22.21	22.36	22.30	23
3	16QAM	15	0	22.31	22.29	22.25	
3	64QAM	1	0	22.45	22.35	22.45	
3	64QAM	1	8	22.47	22.25	22.35	
3	64QAM	1	14	22.12	22.38	22.45	
3	64QAM	8	0	22.24	22.23	22.36	
3	64QAM	8	4	22.34	22.30	22.31	
3	64QAM	8	7	22.23	22.17	22.21	
3	64QAM	15	0	22.25	22.27	22.24	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.92	22.83	22.84	24
1.4	QPSK	1	3	22.98	23.00	23.00	
1.4	QPSK	1	5	22.90	22.78	22.94	
1.4	QPSK	3	0	22.89	22.82	22.89	
1.4	QPSK	3	1	22.86	22.92	22.83	
1.4	QPSK	3	3	22.87	22.83	22.75	
1.4	QPSK	6	0	22.47	22.32	22.51	23
1.4	16QAM	1	0	22.39	22.39	22.59	23
1.4	16QAM	1	3	22.63	22.72	22.84	
1.4	16QAM	1	5	22.46	22.66	22.54	
1.4	16QAM	3	0	22.17	22.14	22.40	
1.4	16QAM	3	1	22.26	22.16	22.28	
1.4	16QAM	3	3	22.27	22.28	22.22	
1.4	16QAM	6	0	22.16	22.07	22.08	23
1.4	64QAM	1	0	22.50	22.35	22.51	23
1.4	64QAM	1	3	22.23	22.32	22.32	
1.4	64QAM	1	5	22.20	22.20	22.31	
1.4	64QAM	3	0	22.29	22.27	22.29	
1.4	64QAM	3	1	22.28	22.32	22.36	
1.4	64QAM	3	3	22.28	22.21	22.23	
1.4	64QAM	6	0	22.18	22.28	22.29	23



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Annex E2 Conducted Reduced Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	25.60	25.48	25.53	26.00	16.60	16.48	16.53	17.00	0.12
GPRS 1 Tx slot	25.59	25.49	25.54	26.00	16.59	16.49	16.54	17.00	
GPRS 2 Tx slots	23.53	23.58	23.55	24.00	17.53	17.58	17.55	18.00	0.05
GPRS 3 Tx slots	21.61	21.55	21.68	22.00	17.35	17.29	17.42	17.74	0.13
GPRS 4 Tx slots	19.31	19.25	19.19	20.00	16.31	16.25	16.19	17.00	0.12
EDGE 1 Tx slot	18.70	18.61	18.55	19.50	9.70	9.61	9.55	10.50	0.15
EDGE 2 Tx slots	17.55	17.50	17.80	18.00	11.55	11.50	11.80	12.00	0.30
EDGE 3 Tx slots	14.52	14.69	14.81	15.00	10.26	10.43	10.55	10.74	0.29
EDGE 4 Tx slots	12.25	12.24	12.28	13.00	9.25	9.24	9.28	10.00	0.04

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	21.48	21.49	21.47	22.00	12.48	12.49	12.47	13.00	0.04
GPRS 1 Tx slot	21.48	21.51	21.48	22.00	12.48	12.51	12.48	13.00	
GPRS 2 Tx slots	19.42	19.46	19.40	20.00	13.42	13.46	13.40	14.00	0.06
GPRS 3 Tx slots	17.37	17.41	17.40	18.00	13.11	13.15	13.14	13.74	0.04
GPRS 4 Tx slots	15.50	15.55	15.32	16.00	12.50	12.55	12.32	13.00	0.23
EDGE 1 Tx slot	17.11	17.21	17.14	18.00	8.11	8.21	8.14	9.00	0.10
EDGE 2 Tx slots	15.21	15.22	15.30	16.00	9.21	9.22	9.30	10.00	0.09
EDGE 3 Tx slots	13.41	13.24	13.20	14.00	9.15	8.98	8.94	9.74	0.21
EDGE 4 Tx slots	10.95	10.96	10.97	11.00	7.95	7.96	7.97	8.00	0.02

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	12.23	12.38	12.31	13.00	11.52	11.54	11.51	12.00	16.30	16.35	16.25	17.00
3GPP Rel 6 HSDPA Subtest-1	11.02	11.12	11.14	12.00	11.42	11.47	11.48	12.00	15.36	15.18	14.92	16.00
3GPP Rel 6 HSDPA Subtest-2	10.70	10.79	10.80	12.00	11.49	11.38	11.26	12.00	14.98	14.88	14.67	15.50
3GPP Rel 6 HSDPA Subtest-3	10.86	10.97	10.94	12.00	11.43	11.31	11.49	12.00	14.67	14.52	14.36	15.50
3GPP Rel 6 HSDPA Subtest-4	10.54	10.66	10.64	12.00	11.43	11.32	11.22	12.00	14.58	14.44	14.27	15.50
3GPP Rel 6 HSUPA Subtest-1	10.95	11.03	11.04	12.00	11.46	11.31	11.44	12.00	15.46	15.68	15.52	16.00
3GPP Rel 6 HSUPA Subtest-2	10.91	11.01	11.04	12.00	11.48	11.33	11.41	12.00	15.66	15.72	15.53	16.00
3GPP Rel 6 HSUPA Subtest-3	10.95	11.04	11.01	12.00	11.42	11.23	11.38	12.00	15.55	15.58	15.42	16.00
3GPP Rel 6 HSUPA Subtest-4	10.90	11.02	11.02	12.00	11.31	11.35	11.38	12.00	15.44	15.71	15.53	16.00
3GPP Rel 6 HSUPA Subtest-5	10.92	11.04	11.00	12.00	11.41	11.29	11.39	12.00	15.55	15.64	15.46	16.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-	10.96	11.02	10.92	12.00	11.29	11.12	11.33	12.00	15.46	15.41	15.23	16.00

LTE Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	12.59	12.62	12.56		13
20	QPSK	1	49	12.57	12.51	12.44		
20	QPSK	1	99	12.51	12.47	12.45		
20	QPSK	50	0	11.52	11.61	11.54		12
20	QPSK	50	24	11.53	11.58	11.58		
20	QPSK	50	50	11.58	11.54	11.60		
20	QPSK	100	0	11.51	11.60	11.56		12
20	16QAM	1	0	11.57	11.57	11.59		
20	16QAM	1	49	11.41	11.71	11.67		
20	16QAM	1	99	11.66	11.51	11.91		12
20	16QAM	50	0	11.59	11.56	11.54		
20	16QAM	50	24	11.55	11.60	11.61		
20	16QAM	50	50	11.63	11.60	11.67		12
20	16QAM	100	0	11.66	11.67	11.54		
20	64QAM	1	0	11.61	11.80	11.54		
20	64QAM	1	49	11.56	11.74	11.65		12
20	64QAM	1	99	11.51	11.84	11.84		
20	64QAM	50	0	11.61	11.53	11.58		
20	64QAM	50	24	11.64	11.58	11.63		12
20	64QAM	50	50	11.63	11.64	11.58		
20	64QAM	100	0	11.51	11.48	11.49		
Channel				18675	18900	19125	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	12.40	12.43	12.34		13
15	QPSK	1	37	12.19	12.55	12.43		
15	QPSK	1	74	12.56	12.48	12.56		
15	QPSK	36	0	11.38	11.47	11.46		12
15	QPSK	36	20	11.37	11.56	11.53		
15	QPSK	36	39	11.49	11.50	11.47		
15	QPSK	75	0	11.41	11.47	11.43		12
15	16QAM	1	0	11.50	11.58	11.52		
15	16QAM	1	37	11.63	11.66	11.52		
15	16QAM	1	74	11.58	11.70	11.70		12
15	16QAM	36	0	11.37	11.42	11.45		
15	16QAM	36	20	11.46	11.39	11.52		
15	16QAM	36	39	11.51	11.60	11.57		12
15	16QAM	75	0	11.38	11.40	11.49		
15	64QAM	1	0	11.58	11.34	11.40		
15	64QAM	1	37	11.57	11.38	11.80		12
15	64QAM	1	74	11.46	11.50	11.65		
15	64QAM	36	0	11.31	11.48	11.36		
15	64QAM	36	20	11.51	11.53	11.43		12
15	64QAM	36	39	11.39	11.44	11.53		
15	64QAM	75	0	11.38	11.45	11.44		
Channel				18650	18900	19150	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	12.37	12.36	12.46		13
10	QPSK	1	25	12.48	12.58	12.46		
10	QPSK	1	49	12.37	12.45	12.37		
10	QPSK	25	0	11.49	11.50	11.46		12
10	QPSK	25	12	11.45	11.57	11.50		
10	QPSK	25	25	11.36	11.49	11.45		
10	QPSK	50	0	11.42	11.51	11.49		12
10	16QAM	1	0	11.90	11.83	11.82		
10	16QAM	1	25	11.59	11.55	11.62		
10	16QAM	1	49	11.54	11.62	11.41		12
10	16QAM	25	0	11.44	11.43	11.40		
10	16QAM	25	12	11.60	11.40	11.40		
10	16QAM	25	25	11.40	11.60	11.70		12
10	16QAM	50	0	11.97	11.90	11.94		
10	64QAM	1	0	11.48	11.53	11.53		
10	64QAM	1	25	11.51	11.56	11.60		12
10	64QAM	1	49	11.18	11.31	11.28		
10	64QAM	25	0	11.48	11.52	11.53		
10	64QAM	25	12	11.51	11.49	11.50		12
10	64QAM	25	25	11.44	11.22	11.44		
10	64QAM	50	0	11.45	11.45	11.42		
Channel				18625	18900	19175	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	12.51	12.56	12.50		13
5	QPSK	1	12	12.50	12.45	12.48		
5	QPSK	1	24	12.46	12.54	12.55		
5	QPSK	12	0	11.48	11.39	11.46		12
5	QPSK	12	7	11.49	11.54	11.46		
5	QPSK	12	13	11.48	11.47	11.50		
5	QPSK	25	0	11.47	11.45	11.47		12
5	16QAM	1	0	11.60	11.50	11.88		
5	16QAM	1	12	11.58	11.51	11.88		
5	16QAM	1	24	11.61	11.48	11.87		12
5	16QAM	12	0	11.70	11.84	11.70		
5	16QAM	12	7	11.60	11.60	11.40		
5	16QAM	12	13	11.40	11.73	11.50		12
5	16QAM	25	0	11.50	11.96	11.94		
5	64QAM	1	0	11.70	11.42	11.47		
5	64QAM	1	12	11.86	11.52	11.63		12
5	64QAM	1	24	11.87	11.51	11.53		
5	64QAM	12	0	11.52	11.45	11.44		
5	64QAM	12	7	11.58	11.42	11.42		12
5	64QAM	12	13	11.55	11.51	11.49		
5	64QAM	25	0	11.62	11.42	11.49		
Channel				18615	18900	19185	Tune-up limit (dBm)	
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	12.45	12.52	12.44		13
3	QPSK	1	8	12.55	12.58	12.41		
3	QPSK	1	14	12.56	12.43	12.43		
3	QPSK	8	0	11.36	11.31	11.33		12
3	QPSK	8	4	11.42	11.36	11.37		
3	QPSK	8	7	11.42	11.36	11.32		
3	QPSK	15	0	11.34	11.42	11.35		12
3	16QAM	1	0	11.50	11.41	11.35		
3	16QAM	1	8	11.54	11.48	11.44		
3	16QAM	1	14	11.47	11.44	11.32		12
3	16QAM	8	0	11.90	12.03	11.95		
3	16QAM	8	4	11.97	11.94	12.00		
3	16QAM	8	7	11.87	11.92	11.95		12

LTE Band 4								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	12.59	12.67	12.66		13
20	QPSK	1	49	12.45	12.53	12.52		
20	QPSK	1	99	12.37	12.50	12.62		
20	QPSK	50	0	11.49	11.62	11.59		12
20	QPSK	50	24	11.49	11.57	11.57		
20	QPSK	50	50	11.38	11.49	11.50		
20	QPSK	100	0	11.48	11.52	11.59		12
20	16QAM	1	0	11.35	11.65	11.52		
20	16QAM	1	49	11.50	11.27	11.41		
20	16QAM	1	99	11.29	11.51	11.35		12
20	16QAM	50	0	11.48	11.41	11.55		
20	16QAM	50	24	11.74	11.85	11.74		
20	16QAM	50	50	11.70	11.71	11.71		12
20	16QAM	100	0	11.72	11.80	11.81		
20	64QAM	1	0	11.46	11.57	11.79		
20	64QAM	1	49	11.50	11.43	11.31		12
20	64QAM	1	99	11.77	11.34	11.81		
20	64QAM	50	0	11.47	11.56	11.51		
20	64QAM	50	24	11.49	11.60	11.54		12
20	64QAM	50	50	11.53	11.48	11.50		
20	64QAM	100	0	11.56	11.54	11.63		
Channel				20025	20175	20325	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	12.46	12.50	12.60		13
15	QPSK	1	37	12.50	12.59	12.51		
15	QPSK	1	74	12.37	12.59	12.62		
15	QPSK	36	0	11.43	11.50	11.53		12
15	QPSK	36	20	11.47	11.60	11.56		
15	QPSK	36	39	11.52	11.51	11.60		
15	QPSK	75	0	11.47	11.49	11.50		12
15	16QAM	1	0	11.41	11.63	11.35		
15	16QAM	1	37	11.49	11.49	11.33		
15	16QAM	1	74	11.35	11.65	11.44		12
15	16QAM	36	0	11.36	11.38	11.57		
15	16QAM	36	20	11.31	11.38	11.44		
15	16QAM	36	39	11.27	11.36	11.42		12
15	16QAM	75	0	11.38	11.39	11.48		
15	64QAM	1	0	11.33	11.64	11.69		
15	64QAM	1	37	11.75	11.51	11.57		12
15	64QAM	1	74	11.79	11.50	11.54		
15	64QAM	36	0	11.44	11.51	11.55		
15	64QAM	36	20	11.50	11.52	11.54		12
15	64QAM	36	39	11.53	11.49	11.51		

3	16QAM	15	0	11.90	11.94	11.89	
3	64QAM	1	0	11.43	11.36	11.39	
3	64QAM	1	8	11.85	11.84	11.44	12
3	64QAM	1	14	11.46	11.82	11.46	
3	64QAM	8	0	11.38	11.40	11.24	
3	64QAM	8	4	11.48	11.38	11.38	12
3	64QAM	8	7	11.58	11.47	11.33	
3	64QAM	15	0	11.43	11.43	11.41	
Channel				18607	18900	19193	Tune-up limit (rRm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	12.51	12.54	12.49	
1.4	QPSK	1	3	12.41	12.39	12.38	
1.4	QPSK	1	5	12.38	12.36	12.34	
1.4	QPSK	3	0	12.38	12.38	12.34	13
1.4	QPSK	3	1	12.42	12.39	12.37	
1.4	QPSK	3	3	12.44	12.48	12.37	
1.4	QPSK	6	0	11.32	11.30	11.29	12
1.4	16QAM	1	0	11.35	11.35	11.29	
1.4	16QAM	1	3	11.31	11.51	11.49	
1.4	16QAM	1	5	11.19	11.39	11.07	
1.4	16QAM	3	0	11.21	11.26	11.23	
1.4	16QAM	3	1	11.39	11.21	11.26	
1.4	16QAM	3	3	11.41	11.38	11.12	
1.4	16QAM	6	0	11.42	11.35	11.30	12
1.4	64QAM	1	0	11.30	11.22	11.25	
1.4	64QAM	1	3	11.32	11.53	11.41	
1.4	64QAM	1	5	11.30	11.65	11.24	
1.4	64QAM	3	0	11.33	11.39	11.40	
1.4	64QAM	3	1	11.42	11.39	11.60	
1.4	64QAM	3	3	11.34	11.48	11.25	
1.4	64QAM	6	0	11.39	11.42	11.31	12

3	16QAM	15	0	11.66	11.64	11.71	
3	64QAM	1	0	11.33	11.42	11.40	
3	64QAM	1	8	11.52	11.40	11.56	12
3	64QAM	1	14	11.33	11.40	11.23	
3	64QAM	8	0	11.31	11.35	11.29	
3	64QAM	8	4	11.43	11.41	11.45	12
3	64QAM	8	7	11.37	11.44	11.56	
3	64QAM	15	0	11.33	11.41	11.32	
Channel				19957	20175	20393	Tune-up limit (rRm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	12.15	12.36	12.37	
1.4	QPSK	1	3	12.49	12.49	12.53	
1.4	QPSK	1	5	12.35	12.44	12.46	
1.4	QPSK	3	0	12.43	12.40	12.39	13
1.4	QPSK	3	1	12.39	12.49	12.54	
1.4	QPSK	3	3	12.38	12.45	12.44	
1.4	QPSK	6	0	11.37	11.39	11.35	12
1.4	16QAM	1	0	11.31	11.78	11.44	
1.4	16QAM	1	3	11.44	11.52	11.56	
1.4	16QAM	1	5	11.50	11.66	11.46	
1.4	16QAM	3	0	11.53	11.57	11.48	
1.4	16QAM	3	1	11.54	11.57	11.59	
1.4	16QAM	3	3	11.53	11.65	11.54	
1.4	16QAM	6	0	11.44	11.45	11.36	12
1.4	64QAM	1	0	11.22	11.16	11.30	
1.4	64QAM	1	3	11.48	11.46	11.58	
1.4	64QAM	1	5	11.39	11.35	11.19	
1.4	64QAM	3	0	11.30	11.28	11.47	
1.4	64QAM	3	1	11.21	11.36	11.33	
1.4	64QAM	3	3	11.27	11.44	11.32	
1.4	64QAM	6	0	11.26	11.27	11.34	12

LTE Band 5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	17.41	17.42	17.34	
10	QPSK	1	25	17.27	17.30	17.10	18
10	QPSK	1	49	17.19	17.31	16.99	
10	QPSK	25	0	16.72	16.74	16.65	17
10	QPSK	25	12	16.48	16.50	16.55	
10	QPSK	25	25	16.48	16.59	16.64	17
10	QPSK	50	0	16.54	16.42	16.56	
10	16QAM	1	0	16.43	16.62	16.33	17
10	16QAM	1	25	16.66	16.69	16.37	
10	16QAM	1	49	16.49	16.55	16.62	17
10	16QAM	25	0	16.58	16.59	16.41	
10	16QAM	25	12	16.52	16.60	16.38	17
10	16QAM	25	25	16.55	16.48	16.51	
10	16QAM	50	0	16.56	16.47	16.37	17
10	64QAM	1	0	16.52	16.62	16.50	
10	64QAM	1	25	16.49	16.69	16.49	17
10	64QAM	1	49	16.38	16.60	16.51	
10	64QAM	25	0	16.49	16.60	16.27	17
10	64QAM	25	12	16.48	16.65	16.36	
10	64QAM	25	25	16.60	16.49	16.19	17
10	64QAM	50	0	16.56	16.52	16.38	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	17.36	17.32	17.30	
5	QPSK	1	12	17.26	17.37	17.21	18
5	QPSK	1	24	17.26	17.21	17.21	
5	QPSK	12	0	16.63	16.68	16.54	17
5	QPSK	12	7	16.70	16.71	16.63	
5	QPSK	12	13	16.75	16.59	16.54	17
5	QPSK	25	0	16.51	16.47	16.39	
5	16QAM	1	0	16.65	16.58	16.49	17
5	16QAM	1	12	16.35	16.57	16.48	
5	16QAM	1	24	16.22	16.57	16.55	17
5	16QAM	12	0	16.31	16.40	16.54	
5	16QAM	12	7	16.38	16.41	16.38	17
5	16QAM	12	13	16.38	16.29	16.49	
5	16QAM	25	0	16.39	16.44	16.54	17
5	64QAM	1	0	16.46	16.34	16.60	
5	64QAM	1	12	16.34	16.28	16.57	17
5	64QAM	1	24	16.63	16.47	16.41	
5	64QAM	12	0	16.35	16.49	16.29	17
5	64QAM	12	7	16.39	16.55	16.33	
5	64QAM	12	13	16.57	16.52	16.09	17
5	64QAM	25	0	16.45	16.52	16.13	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	17.05	17.36	17.21	
3	QPSK	1	8	17.31	17.32	17.23	18
3	QPSK	1	14	17.32	17.30	17.04	
3	QPSK	8	0	16.41	16.54	16.52	17
3	QPSK	8	4	16.55	16.61	16.58	
3	QPSK	8	7	16.50	16.52	16.39	17
3	QPSK	15	0	16.48	16.54	16.53	
3	16QAM	1	0	16.50	16.61	16.68	17
3	16QAM	1	8	16.43	16.69	16.53	
3	16QAM	1	14	16.48	16.74	16.49	17
3	16QAM	8	0	16.44	16.53	16.27	
3	16QAM	8	4	16.60	16.71	16.28	17
3	16QAM	8	7	16.52	16.58	16.32	
3	16QAM	15	0	16.46	16.48	16.03	17
3	64QAM	1	0	16.41	16.29	16.50	
3	64QAM	1	8	16.29	16.53	16.29	17
3	64QAM	1	14	16.31	16.49	16.30	
3	64QAM	8	0	16.41	16.51	16.49	17
3	64QAM	8	4	16.63	16.47	16.41	
3	64QAM	8	7	16.58	16.50	16.47	17
3	64QAM	15	0	16.47	16.57	16.37	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	17.26	17.33	17.37	
1.4	QPSK	1	3	17.39	17.32	17.39	18
1.4	QPSK	1	5	17.28	17.22	17.23	
1.4	QPSK	3	0	17.29	17.35	17.31	17
1.4	QPSK	3	1	17.35	17.22	17.32	
1.4	QPSK	3	3	17.36	17.28	17.28	17
1.4	QPSK	6	0	16.46	16.45	16.44	
1.4	16QAM	1	0	16.59	16.40	16.57	17
1.4	16QAM	1	3	16.39	16.63	16.52	
1.4	16QAM	1	5	16.78	16.46	16.52	17
1.4	16QAM	3	0	16.31	16.29	16.43	
1.4	16QAM	3	1	16.34	16.61	16.47	17
1.4	16QAM	3	3	16.42	16.53	16.41	
1.4	16QAM	6	0	16.61	16.48	16.52	17
1.4	64QAM	1	0	16.14	16.31	16.33	
1.4	64QAM	1	3	16.45	16.46	16.41	17
1.4	64QAM	1	5	16.40	16.39	16.27	
1.4	64QAM	3	0	16.06	16.33	16.34	17
1.4	64QAM	3	1	16.34	16.28	16.29	
1.4	64QAM	3	3	16.24	16.41	16.45	17
1.4	64QAM	6	0	16.45	16.57	16.46	

LTE Band 7							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	11.60	11.71	11.53	
20	QPSK	1	49	11.55	11.59	11.48	12
20	QPSK	1	99	11.50	11.45	11.50	
20	QPSK	50	0	10.46	10.65	10.50	11
20	QPSK	50	24	10.22	10.19	10.09	
20	QPSK	50	50	10.32	10.35	10.32	11
20	QPSK	100	0	10.27	10.59	10.26	
20	16QAM	1	0	10.08	10.18	10.36	11
20	16QAM	1	49	10.23	10.09	10.37	
20	16QAM	1	99	10.17	10.48	10.13	11
20	16QAM	50	0	10.02	10.12	10.05	
20	16QAM	50	24	10.07	9.99	10.10	11
20	16QAM	50	50	10.15	10.20	10.03	
20	16QAM	100	0	10.03	10.15	10.13	11
20	64QAM	1	0	10.51	10.35	10.08	
20	64QAM	1	49	10.45	10.42	10.47	11
20	64QAM	1	99	10.43	10.48	10.39	
20	64QAM	50	0	10.17	10.18	10.23	11
20	64QAM	50	24	10.22	10.23	10.23	
20	64QAM	50	50	10.26	10.33	10.18	11
20	64QAM	100	0	10.19	10.16	10.28	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	11.43	11.52	11.52	
15	QPSK	1	37	11.53	11.50	11.54	12
15	QPSK	1	74	11.47	11.54	11.54	
15	QPSK	36	0	10.25	10.34	10.36	11
15	QPSK	36	20	10.33	10.40	10.35	
15	QPSK	36	39	10.36	10.39	10.43	11
15	QPSK	75	0	10.42	10.35	10.37	
15	16QAM	1	0	10.58	10.69	10.76	11
15	16QAM	1	37	10.40	10.51	10.49	
15	16QAM	1	74	10.44	10.44	10.66	11
15	16QAM	36	0	10.03	10.14	10.16	
15	16QAM	36	20	10.10	10.13	10.12	11
15	16QAM	36	39	10.16	10.14	10.03	
15	16QAM	75	0	10.11	10.19	10.11	11
15	64QAM	1	0	10.41	10.38	10.26	
15	64QAM	1	37	10.31	10.46	10.55	11
15	64QAM	1	74	10.30	10.42	10.48	
15	64QAM	36	0	10.15	10.23	10.22	11
15	64QAM	36	20	10.26	10.25	10.32	
15	64QAM	36	39	10.30	10.21	10.23	11
15	64QAM	75	0	10.15	10.25	10.20	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	11.42	11.29	11.32	
10	QPSK	1	25	11.45	11.35	11.37	12
10	QPSK	1	49	11.38	11.35	11.37	
10	QPSK	25	0	10.32	10.32	10.31	11
10	QPSK	25	12	10.28	10.40	10.45	
10	QPSK	25	25	10.21	10.39	10.39	11
10	QPSK	50	0	10.30	10.42	10.41	
10	16QAM	1	0	10.35	10.53	10.38	11
10	16QAM	1	25	10.34	10.36	10.41	
10	16QAM	1	49	10.81	10.71	10.62	11
10	16QAM	25	0	10.24	10.12	10.20	
10	16QAM	25	12	10.06	10.23	10.16	11
10	16QAM	25	25	10.11	10.14	10.06	
10	16QAM	50	0	10.14	10.23	10.08	11
10	64QAM	1	0	10.56	10.52	10.50	
10	64QAM	1	25	10.25	10.50	10.33	11
10	64QAM	1	49	10.36	10.60	10.41	
10	64QAM	25	0	10.22	10.20	10.24	11
10	64QAM	25	12	10.24	10.35	10.28	
10	64QAM	25	25	10			

LTE Band 12

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	19.44	19.52	19.43	20
10	QPSK	1	25	18.90	19.03	19.06	
10	QPSK	1	49	19.00	19.01	19.00	
10	QPSK	25	0	18.29	18.39	18.30	19
10	QPSK	25	12	18.26	18.20	17.99	
10	QPSK	25	25	18.31	18.37	18.30	
10	QPSK	50	0	18.32	18.34	18.25	19
10	16QAM	1	0	18.25	17.80	17.93	
10	16QAM	1	25	18.00	17.95	18.09	
10	16QAM	1	49	18.09	18.14	18.03	19
10	16QAM	25	0	17.98	18.00	17.94	
10	16QAM	25	12	18.02	18.06	17.95	
10	16QAM	25	25	18.07	18.08	18.02	19
10	16QAM	50	0	17.97	18.05	18.10	
10	64QAM	1	0	17.82	17.94	18.28	
10	64QAM	1	25	18.26	18.32	17.91	19
10	64QAM	1	49	18.28	17.96	17.89	
10	64QAM	25	0	17.79	17.73	17.70	
10	64QAM	25	12	17.84	17.87	17.79	19
10	64QAM	25	25	17.89	17.86	17.86	
10	64QAM	50	0	17.81	17.74	17.85	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	18.79	19.12	18.90	20
5	QPSK	1	12	18.95	19.11	18.95	
5	QPSK	1	24	18.91	19.10	18.96	
5	QPSK	12	0	18.02	18.09	18.08	19
5	QPSK	12	7	18.13	18.15	18.12	
5	QPSK	12	13	18.08	18.11	18.08	
5	QPSK	25	0	18.04	18.16	18.12	19
5	16QAM	1	0	18.05	18.07	18.09	
5	16QAM	1	12	18.22	18.17	18.18	
5	16QAM	1	24	18.18	18.16	18.12	19
5	16QAM	12	0	17.92	17.89	17.92	
5	16QAM	12	7	18.06	18.11	17.95	
5	16QAM	12	13	18.01	17.98	18.03	19
5	16QAM	25	0	18.02	17.98	18.00	
5	64QAM	1	0	17.80	17.81	17.86	
5	64QAM	1	12	18.25	17.95	17.88	19
5	64QAM	1	24	18.23	17.92	17.97	
5	64QAM	12	0	17.77	17.79	17.74	
5	64QAM	12	7	17.87	17.75	17.81	19
5	64QAM	12	13	17.74	17.84	17.89	
5	64QAM	25	0	17.89	17.85	17.82	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	18.87	19.14	18.81	20
3	QPSK	1	8	19.05	19.04	18.94	
3	QPSK	1	14	18.99	19.10	19.05	
3	QPSK	8	0	18.10	18.08	18.08	19
3	QPSK	8	4	18.13	18.16	18.17	
3	QPSK	8	7	18.08	18.16	18.10	
3	QPSK	15	0	18.07	18.15	18.01	19
3	16QAM	1	0	18.08	18.44	18.03	
3	16QAM	1	8	18.28	18.26	18.21	
3	16QAM	1	14	18.11	18.16	18.02	19
3	16QAM	8	0	18.08	17.97	18.00	
3	16QAM	8	4	18.13	18.10	18.21	
3	16QAM	8	7	17.97	18.00	18.06	19
3	16QAM	15	0	17.95	17.88	17.87	
3	64QAM	1	0	17.81	18.15	18.14	
3	64QAM	1	8	18.10	18.00	18.01	19
3	64QAM	1	14	18.03	17.88	17.99	
3	64QAM	8	0	17.70	17.78	17.69	
3	64QAM	8	4	17.79	17.83	17.82	19
3	64QAM	8	7	17.78	17.70	17.85	
3	64QAM	15	0	17.77	17.79	17.71	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	18.90	19.07	18.87	20
1.4	QPSK	1	3	19.01	19.00	19.02	
1.4	QPSK	1	5	18.90	18.95	18.91	
1.4	QPSK	3	0	18.85	18.98	18.96	19
1.4	QPSK	3	1	19.06	19.06	18.73	
1.4	QPSK	3	3	19.01	19.03	18.99	
1.4	QPSK	6	0	18.07	18.04	18.02	19
1.4	16QAM	1	0	18.11	18.05	17.90	
1.4	16QAM	1	3	17.92	18.35	18.02	
1.4	16QAM	1	5	18.04	18.05	18.04	19
1.4	16QAM	3	0	17.88	17.91	17.92	
1.4	16QAM	3	1	18.04	18.12	17.96	
1.4	16QAM	3	3	17.87	18.01	18.01	19
1.4	16QAM	6	0	17.80	18.00	17.90	
1.4	64QAM	1	0	17.65	17.80	17.64	
1.4	64QAM	1	3	17.77	17.70	17.75	19
1.4	64QAM	1	5	17.93	17.96	17.92	
1.4	64QAM	3	0	17.83	17.84	17.67	
1.4	64QAM	3	1	17.81	18.05	17.90	19
1.4	64QAM	3	3	17.83	17.67	17.83	
1.4	64QAM	6	0	17.79	17.80	17.67	

LTE Band 17

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	19.28	19.31	19.21	20
10	QPSK	1	25	18.96	18.92	18.98	
10	QPSK	1	49	18.89	18.92	18.87	
10	QPSK	25	0	18.19	18.25	18.17	19
10	QPSK	25	12	18.04	17.98	18.12	
10	QPSK	25	25	18.02	18.02	18.11	
10	QPSK	50	0	18.15	18.02	18.03	19
10	16QAM	1	0	17.88	18.07	18.21	
10	16QAM	1	25	18.09	18.38	18.22	
10	16QAM	1	49	18.05	18.30	18.35	19
10	16QAM	25	0	17.99	18.23	18.22	
10	16QAM	25	12	18.05	18.20	18.18	
10	16QAM	25	25	17.88	18.14	18.19	19
10	16QAM	50	0	17.92	18.21	18.18	
10	64QAM	1	0	17.89	18.22	17.90	
10	64QAM	1	25	18.12	18.02	17.92	19
10	64QAM	1	49	17.86	17.89	17.89	
10	64QAM	25	0	18.04	18.21	18.19	
10	64QAM	25	12	17.96	18.04	18.21	19
10	64QAM	25	25	17.90	18.11	18.27	
10	64QAM	50	0	17.97	18.20	18.21	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	19.02	18.98	18.94	20
5	QPSK	1	12	19.01	18.97	18.96	
5	QPSK	1	24	18.93	18.99	18.98	
5	QPSK	12	0	18.09	18.27	18.43	19
5	QPSK	12	7	18.18	18.06	18.14	
5	QPSK	12	13	18.10	18.08	18.14	
5	QPSK	25	0	18.03	18.18	18.18	19
5	16QAM	1	0	18.07	18.12	17.84	
5	16QAM	1	12	18.24	17.80	18.17	
5	16QAM	1	24	18.08	18.13	18.29	19
5	16QAM	12	0	17.76	17.79	18.00	
5	16QAM	12	7	17.76	17.83	17.95	
5	16QAM	12	13	17.67	17.92	17.95	19
5	16QAM	25	0	18.01	18.13	18.17	
5	64QAM	1	0	17.81	17.82	17.82	
5	64QAM	1	12	17.85	17.82	17.90	19
5	64QAM	1	24	17.90	17.90	17.82	
5	64QAM	12	0	17.96	18.01	18.25	
5	64QAM	12	7	18.09	18.17	18.11	19
5	64QAM	12	13	17.94	18.12	18.14	
5	64QAM	25	0	17.91	18.10	18.26	

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	11.18	11.24	11.22	12
20	QPSK	1	49	11.03	11.02	10.98	
20	QPSK	1	99	10.96	10.95	10.98	
20	QPSK	50	0	10.41	10.48	10.44	
20	QPSK	50	24	10.22	10.24	10.37	11
20	QPSK	50	50	10.26	10.34	10.22	
20	QPSK	100	0	10.24	10.24	10.16	
20	QPSK	1	0	10.29	10.05	10.33	
20	16QAM	1	49	10.34	10.08	10.14	11
20	16QAM	1	99	10.34	10.52	10.31	
20	16QAM	50	0	10.46	10.43	10.40	
20	16QAM	50	24	10.35	10.35	10.36	
20	16QAM	50	50	10.32	10.24	10.20	11
20	16QAM	100	0	10.28	10.31	10.37	
20	64QAM	1	0	10.44	10.21	10.54	
20	64QAM	1	49	10.21	10.54	10.53	
20	64QAM	1	99	10.44	10.56	10.64	11
20	64QAM	50	0	10.40	10.30	10.43	
20	64QAM	50	24	10.34	10.28	10.40	
20	64QAM	50	50	10.36	10.24	10.30	
20	64QAM	100	0	10.35	10.35	10.33	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	11.04	11.08	11.06	12
15	QPSK	1	37	11.18	11.04	11.02	
15	QPSK	1	74	11.02	10.98	10.96	
15	QPSK	36	0	10.23	10.20	10.24	
15	QPSK	36	20	10.23	10.15	10.25	11
15	QPSK	36	39	10.09	10.14	10.11	
15	QPSK	75	0	10.18	10.22	10.15	
15	16QAM	1	0	10.17	10.04	10.34	
15	16QAM	1	37	10.04	10.34	10.27	11
15	16QAM	1	74	10.14	10.04	10.04	
15	16QAM	36	0	10.35	10.35	10.26	
15	16QAM	36	20	10.38	10.37	10.43	
15	16QAM	36	39	10.30	10.45	10.39	11
15	16QAM	75	0	10.40	10.38	10.34	
15	64QAM	1	0	10.54	10.44	10.54	
15	64QAM	1	37	10.56	10.34	10.44	
15	64QAM	1	74	10.21	10.47	10.54	11
15	64QAM	36	0	10.33	10.32	10.45	
15	64QAM	36	20	10.43	10.39	10.40	
15	64QAM	36	39	10.32	10.26	10.30	
15	64QAM	75	0	10.34	10.36	10.33	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	11.02	11.02	11.03	12
10	QPSK	1	25	10.92	10.90	10.98	
10	QPSK	1	49	11.06	10.94	10.84	
10	QPSK	25	0	10.49	10.42	10.49	
10	QPSK	25	12	10.46	10.65	10.43	11
10	QPSK	25	25	10.47	10.43	10.35	
10	QPSK	50	0	10.55	10.40	10.59	
10	16QAM	1	0	10.47	10.47	10.67	
10	16QAM	1	25	10.47	10.56	10.68	11
10	16QAM	1	49	10.30	10.50	10.38	
10	16QAM	25	0	10.31	10.48	10.36	
10	16QAM	25	12	10.30	10.50	10.41	
10	16QAM	25	25	10.21	10.26	10.26	11
10	16QAM	50	0	10.37	10.41	10.42	
10	64QAM	1	0	10.37	10.37	10.04	
10	64QAM	1	25	10.04	10.17	10.07	
10	64QAM	1	49	10.04	10.04	10.04	11
10	64QAM	25	0	10.37	10.35	10.37	
10	64QAM	25	12	10.36	10.40	10.44	
10	64QAM	25	25	10.36	10.29	10.31	
10	64QAM	50	0	10.26	10.36	10.37	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	10.91	10.94	10.99	12
5	QPSK	1	12	10.94	10.94	10.93	
5	QPSK	1	24	11.02	10.92	10.98	
5	QPSK	12	0	10.18	10.20	10.16	
5	QPSK	12	7	10.20	10.28	10.21	11
5	QPSK	12	13	10.11	10.17	10.18	
5	QPSK	25	0	10.21	10.22	10.21	
5	16QAM	1	0	10.70	10.39	10.40	
5	16QAM	1	12	10.33	10.62	10.57	11
5	16QAM	1	24	10.45	10.34	10.69	
5	16QAM	12	0	10.34	10.45	10.41	
5	16QAM	12	7	10.51	10.43	10.55	
5	16QAM	12	13	10.42	10.36	10.43	11
5	16QAM	25	0	10.43	10.45	10.37	
5	64QAM	1	0	10.04	10.44	10.24	
5	64QAM	1	12	10.34	10.34	10.34	
5	64QAM	1	24	10.17	10.21	10.17	11
5	64QAM	12	0	10.41	10.16	10.37	
5	64QAM	12	7	10.49	10.08	10.39	
5	64QAM	12	13	10.32	10.44	10.39	
5	64QAM	25	0	10.39	10.47	10.34	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	10.98	10.89	10.88	12
3	QPSK	1	8	10.85	10.86	10.94	
3	QPSK	1	14	10.76	10.57	10.87	
3	QPSK	8	0	10.44	10.41	10.45	
3	QPSK	8	4	10.44	10.36	10.46	11
3	QPSK	8	7	10.30	10.35	10.32	
3	QPSK	15	0	10.39	10.43	10.36	
3	16QAM	1	0	10.08	10.49	10.25	
3	16QAM	1	8	10.41	10.35	10.34	11
3	16QAM	1	14	10.45	10.34	10.04	
3	16QAM	8	0	10.26	10.26	10.17	
3	16QAM	8	4	10.29	10.28	10.34	
3	16QAM	8	7	10.21	10.36	10.30	

3	16QAM	15	0	10.31	10.29	10.25	
3	64QAM	1	0	10.45	10.35	10.45	
3	64QAM	1	8	10.47	10.25	10.35	11
3	64QAM	1	14	10.12	10.38	10.45	
3	64QAM	8	0	10.24	10.23	10.36	
3	64QAM	8	4	10.34	10.30	10.31	11
3	64QAM	8	7	10.23	10.17	10.21	
3	64QAM	15	0	10.25	10.27	10.24	
Channel				131979	132322	132685	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	10.92	10.83	10.84	
1.4	QPSK	1	3	10.98	11.00	11.00	
1.4	QPSK	1	5	10.90	10.78	10.94	
1.4	QPSK	3	0	10.89	10.82	10.89	12
1.4	QPSK	3	1	10.86	10.92	10.83	
1.4	QPSK	3	3	10.87	10.83	10.75	
1.4	QPSK	6	0	10.47	10.32	10.51	11
1.4	16QAM	1	0	10.39	10.39	10.59	
1.4	16QAM	1	3	10.63	10.72	10.84	
1.4	16QAM	1	5	10.46	10.66	10.54	11
1.4	16QAM	3	0	10.17	10.14	10.40	
1.4	16QAM	3	1	10.26	10.16	10.28	
1.4	16QAM	3	3	10.27	10.28	10.22	
1.4	16QAM	6	0	10.16	10.07	10.08	11
1.4	64QAM	1	0	10.50	10.35	10.51	
1.4	64QAM	1	3	10.23	10.32	10.32	
1.4	64QAM	1	5	10.20	10.20	10.31	
1.4	64QAM	3	0	10.29	10.27	10.29	11
1.4	64QAM	3	1	10.28	10.32	10.36	
1.4	64QAM	3	3	10.28	10.21	10.23	
1.4	64QAM	6	0	10.18	10.28	10.29	11