



REPORT No. : SZ21040089S01

Annex E Conducted Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot	32.37	32.30	32.53	33.00	23.37	23.30	23.53	24.00
GPRS 1 Tx slot	32.39	32.30	32.54	33.00	23.39	23.30	23.54	24.00
GPRS 2 Tx slots	30.87	31.04	31.03	31.50	24.87	25.04	25.03	25.50
GPRS 3 Tx slots	29.38	29.45	29.39	30.00	25.12	25.19	25.13	25.74
GPRS 4 Tx slots	28.03	28.03	28.13	28.50	25.03	25.03	25.13	25.50
EDGE 1 Tx slot	26.18	26.20	26.07	26.50	17.18	17.20	17.07	17.50
EDGE 2 Tx slots	25.57	25.71	25.55	26.00	19.57	19.71	19.55	20.00
EDGE 3 Tx slots	23.90	23.97	23.76	24.50	19.64	19.71	19.50	20.24
EDGE 4 Tx slots	22.72	22.32	22.54	23.50	19.72	19.32	19.54	20.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	29.01	28.83	28.82	29.50	20.01	19.83	19.82	20.50
GPRS 1 Tx slot	29.04	28.84	28.83	29.50	20.04	19.84	19.83	20.50
GPRS 2 Tx slots	28.65	28.41	28.35	29.00	22.65	22.41	22.35	23.00
GPRS 3 Tx slots	27.15	26.83	26.79	27.50	22.89	22.57	22.53	23.24
GPRS 4 Tx slots	26.20	26.32	26.25	27.00	23.20	23.32	23.25	24.00
EDGE 1 Tx slot	25.91	25.45	25.44	26.00	16.91	16.45	16.44	17.00
EDGE 2 Tx slots	25.22	24.91	24.82	25.50	19.22	18.91	18.82	19.50
EDGE 3 Tx slots	23.40	23.01	22.99	24.00	19.14	18.75	18.73	19.74
EDGE 4 Tx slots	22.09	21.81	21.89	22.50	19.09	18.81	18.89	19.50

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938	(dBm)	1537	1638	1738	(dBm)	4357	4407	4458	(dBm)
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	23.17	23.01	23.13	23.50	23.06	23.17	23.02	23.50	23.14	23.21	23.20	24.00
3GPP Rel 6	HSDPA Subtest-1	22.80	22.65	22.77	23.00	21.86	22.09	21.90	22.50	22.45	22.33	22.40	23.00
3GPP Rel 6	HSDPA Subtest-2	22.87	22.70	22.81	23.00	22.00	22.15	21.99	22.50	22.50	22.48	22.43	23.00
3GPP Rel 6	HSDPA Subtest-3	22.40	22.31	22.32	23.00	21.51	21.66	21.49	22.00	21.90	21.95	21.93	22.50
3GPP Rel 6	HSDPA Subtest-4	22.08	22.33	22.33	23.00	21.53	21.66	21.50	22.00	21.91	21.85	21.95	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.68	22.59	22.61	23.00	21.84	21.95	21.88	22.50	22.34	22.33	22.41	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.72	22.74	22.62	23.00	21.99	22.09	22.02	22.50	22.48	22.36	22.42	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.20	22.24	22.22	23.00	21.47	21.58	21.50	22.50	21.95	21.83	21.99	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.21	22.24	22.23	23.00	21.47	21.59	21.50	22.50	21.96	21.84	21.99	23.00
3GPP Rel 6	HSUPA Subtest-1	22.79	22.77	22.85	23.00	22.03	22.04	21.94	22.50	21.41	22.38	22.41	23.00
3GPP Rel 6	HSUPA Subtest-2	22.21	22.22	22.31	23.00	21.50	21.57	21.51	22.50	21.85	21.83	21.91	23.00
3GPP Rel 6	HSUPA Subtest-3	22.93	22.82	22.79	23.00	22.06	22.17	22.10	22.50	22.44	22.39	22.42	23.00
3GPP Rel 6	HSUPA Subtest-4	22.70	22.73	22.71	23.00	21.97	22.08	21.99	22.50	22.35	22.30	22.37	23.00
3GPP Rel 6	HSUPA Subtest-5	22.78	22.79	22.86	22.50	22.02	22.15	22.08	22.00	22.40	22.37	22.47	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-	22.69	22.75	22.76	23.00	21.93	22.11	21.96	23.00	22.33	22.33	22.41	23.00

Band	CDMA2000 BC0			Tune-up Limit (dBm)
TX Channel	1013	384	777	
Frequency (MHz)	824.7	836.52	848.31	(dBm)
RC1 SO55	22.94	22.95	22.81	23.50
RC3 SO55	23.00	22.92	22.88	23.50
RC3 SO32 (F+SCH)	22.91	22.94	22.87	23.50
RC3 SO32 (+SCH)	22.89	22.91	22.83	23.50
RTAP 153.6Kbps	22.91	23.01	22.88	23.50
RETAP 4096Bits	22.50	22.72	22.57	23.50

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	22.12	22.21	22.18	
20	QPSK	1	49	21.97	22.04	22.02	23
20	QPSK	1	99	21.83	21.90	21.88	
20	QPSK	50	0	21.00	21.10	21.02	
20	QPSK	50	24	21.00	21.07	21.05	21.5
20	QPSK	50	50	20.87	20.92	20.90	
20	QPSK	100	0	20.90	20.93	20.85	
20	16QAM	1	0	20.83	20.85	20.80	21.5
20	16QAM	1	49	20.68	20.78	20.73	
20	16QAM	1	99	20.52	20.58	20.55	
20	16QAM	50	0	19.88	19.87	19.90	20.5
20	16QAM	50	24	19.82	19.83	19.80	
20	16QAM	50	50	19.93	19.90	19.89	
20	16QAM	100	0	19.90	19.94	19.87	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.01	22.10	22.07	22.5
15	QPSK	1	37	21.86	21.93	21.91	
15	QPSK	1	74	21.72	21.79	21.77	
15	QPSK	36	0	20.89	20.99	20.91	21.5
15	QPSK	36	20	20.89	20.96	20.94	
15	QPSK	36	39	20.76	20.81	20.79	
15	QPSK	75	0	20.79	20.82	20.74	21.5
15	16QAM	1	0	20.72	20.74	20.69	
15	16QAM	1	37	20.57	20.67	20.62	
15	16QAM	1	74	20.41	20.47	20.44	20.5
15	16QAM	36	0	19.77	19.76	19.79	
15	16QAM	36	20	19.71	19.72	19.69	
15	16QAM	36	39	19.82	19.79	19.78	
15	16QAM	75	0	19.79	19.83	19.76	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.88	21.97	21.94	22.5
10	QPSK	1	25	21.73	21.80	21.78	
10	QPSK	1	49	21.59	21.66	21.64	
10	QPSK	25	0	20.76	20.86	20.78	21.5
10	QPSK	25	12	20.76	20.83	20.81	
10	QPSK	25	25	20.63	20.68	20.66	
10	QPSK	50	0	20.66	20.69	20.61	21
10	16QAM	1	0	20.59	20.61	20.56	
10	16QAM	1	25	20.44	20.54	20.49	
10	16QAM	1	49	20.28	20.34	20.31	20
10	16QAM	25	0	19.64	19.63	19.66	
10	16QAM	25	12	19.58	19.59	19.56	
10	16QAM	25	25	19.69	19.66	19.65	
10	16QAM	50	0	19.66	19.70	19.63	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.79	21.88	21.85	22.5
5	QPSK	1	12	21.64	21.71	21.69	
5	QPSK	1	24	21.50	21.57	21.55	
5	QPSK	12	0	20.67	20.77	20.69	21.5
5	QPSK	12	7	20.67	20.74	20.72	
5	QPSK	12	13	20.54	20.59	20.57	
5	QPSK	25	0	20.57	20.60	20.52	21
5	16QAM	1	0	20.50	20.52	20.47	
5	16QAM	1	12	20.35	20.45	20.40	
5	16QAM	1	24	20.19	20.25	20.22	20
5	16QAM	12	0	19.55	19.54	19.57	
5	16QAM	12	7	19.49	19.50	19.47	
5	16QAM	12	13	19.60	19.57	19.56	
5	16QAM	25	0	19.57	19.61	19.54	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.67	21.76	21.73	22.5
3	QPSK	1	8	21.52	21.59	21.57	
3	QPSK	1	14	21.38	21.45	21.43	
3	QPSK	8	0	20.55	20.65	20.57	21
3	QPSK	8	4	20.55	20.62	20.60	
3	QPSK	8	7	20.42	20.47	20.45	
3	QPSK	15	0	20.45	20.48	20.40	21
3	16QAM	1	0	20.38	20.40	20.35	
3	16QAM	1	8	20.23	20.33	20.28	
3	16QAM	1	14	20.07	20.13	20.10	20
3	16QAM	8	0	19.43	19.42	19.45	
3	16QAM	8	4	19.37	19.38	19.35	
3	16QAM	8	7	19.48	19.45	19.44	
3	16QAM	15	0	19.45	19.49	19.42	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.60	21.69	21.66	22
1.4	QPSK	1	3	21.45	21.52	21.50	
1.4	QPSK	1	5	21.31	21.38	21.36	
1.4	QPSK	3	0	20.48	20.58	20.50	21
1.4	QPSK	3	1	20.48	20.55	20.53	
1.4	QPSK	3	3	20.35	20.40	20.38	
1.4	QPSK	6	0	20.38	20.41	20.33	21
1.4	16QAM	1	0	20.31	20.33	20.28	
1.4	16QAM	1	3	20.16	20.26	20.21	
1.4	16QAM	1	5	20.00	20.06	20.03	21
1.4	16QAM	3	0	19.36	19.35	19.38	
1.4	16QAM	3	1	19.30	19.31	19.28	
1.4	16QAM	3	3	19.41	19.38	19.37	20
1.4	16QAM	6	0	19.38	19.42	19.35	

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	22.17	22.27	22.24	23
20	QPSK	1	49	22.13	22.18	22.13	
20	QPSK	1	99	22.10	22.10	22.06	
20	QPSK	50	0	21.11	21.22	21.17	22
20	QPSK	50	24	21.10	21.16	21.08	
20	QPSK	50	50	21.01	21.05	21.02	
20	QPSK	100	0	21.04	21.06	21.09	21.5
20	16QAM	1	0	20.85	20.93	20.96	
20	16QAM	1	49	20.80	20.86	20.84	
20	16QAM	1	99	20.78	20.77	20.83	21
20	16QAM	50	0	20.15	20.11	20.16	
20	16QAM	50	24	20.03	20.20	20.10	
20	16QAM	50	50	20.10	20.07	20.15	
20	16QAM	100	0	20.03	20.00	20.11	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.05	22.15	22.12	22.5
15	QPSK	1	37	22.01	22.06	22.01	
15	QPSK	1	74	21.98	21.98	21.94	
15	QPSK	36	0	20.99	21.10	21.05	21.5
15	QPSK	36	20	20.98	21.04	20.96	
15	QPSK	36	39	20.89	20.93	20.90	
15	QPSK	75	0	20.92	20.94	20.97	21.5
15	16QAM	1	0	20.73	20.81	20.84	
15	16QAM	1	37	20.68	20.74	20.72	
15	16QAM	1	74	20.66	20.65	20.71	20.5
15	16QAM	36	0	20.03	19.99	20.04	
15	16QAM	36	20	19.91	20.08	19.98	
15	16QAM	36	39	19.98	19.95	20.03	
15	16QAM	75	0	19.91	19.88	19.99	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.96	22.06	22.03	22.5
10	QPSK	1	25	21.92	21.97	21.92	
10	QPSK	1	49	21.89	21.89	21.85	
10	QPSK	25	0	20.90	21.01	20.96	21.5
10	QPSK	25	12	20.89	20.95	20.87	
10	QPSK	25	25	20.80	20.84	20.81	
10	QPSK	50	0	20.83	20.85	20.88	21.5
10	16QAM	1	0	20.64	20.72	20.75	
10	16QAM	1	25	20.59	20.65	20.63	
10	16QAM	1	49	20.57	20.56	20.62	20.5
10	16QAM	25	0	19.94	19.90	19.95	
10	16QAM	25	12	19.82	19.99	19.89	
10	16QAM	25	25	19.89	19.86	19.94	
10	16QAM	50	0	19.82	19.79	19.90	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.85	21.95	21.92	22.5
5	QPSK	1	12	21.81	21.86	21.81	
5	QPSK	1	24	21.78	21.78	21.74	
5	QPSK	12	0	20.79	20.90	20.85	21.5
5	QPSK	12	7	20.78	20.84	20.76	
5	QPSK	12	13	20.69	20.73	20.70	
5	QPSK	25	0	20.72	20.74	20.77	21
5	16QAM	1	0	20.53	20.61	20.64	
5	16QAM	1	12	20.48	20.54	20.52	
5	16QAM	1	24	20.46	20.45	20.51	20.5
5	16QAM	12	0	19.83	19.79	19.84	
5	16QAM	12	7	19.71	19.88	19.78	
5	16QAM	12	13	19.78	19.75	19.83	
5	16QAM	25	0	19.71	19.68	19.79	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.73	21.83	21.80	22.5
3	QPSK	1	8	21.69	21.74	21.69	
3	QPSK	1	14	21.66	21.66	21.62	
3	QPSK	8	0	20.67	20.78	20.73	21.5
3	QPSK	8	4	20.66	20.72	20.64	
3	QPSK	8	7	20.57	20.61	20.58	
3	QPSK	15	0	20.60	20.62	20.65	21
3	16QAM	1	0	20.41	20.49	20.52	
3	16QAM	1	8	20.36	20.42	20.40	
3	16QAM	1	14	20.34	20.33	20.39	20
3	16QAM	8	0	19.71	19.67	19.72	
3	16QAM	8	4	19.59	19.76	19.66	
3	16QAM	8	7	19.66	19.63	19.71	
3	16QAM	15	0	19.59	19.56	19.67	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.62	21.72	21.69	22
1.4	QPSK	1	3	21.58	21.63	21.58	
1.4	QPSK	1	5	21.55	21.55	21.51	
1.4	QPSK	3	0	20.56	20.67	20.62	21
1.4	QPSK	3	1	20.55	20.61	20.53	
1.4	QPSK	3	3	20.46	20.50	20.47	
1.4	QPSK	6	0	20.49	20.51	20.54	20
1.4	16QAM	1	0	20.30	20.38	20.41	
1.4	16QAM	1	3	20.25	20.31	20.29	
1.4	16QAM	1	5	20.23	20.22	20.28	21
1.4	16QAM	3	0	19.60	19.56	19.61	
1.4	16QAM	3	1	19.48	19.65	19.55	
1.4	16QAM	3	3	19.55	19.52	19.60	
1.4	16QAM	6	0	19.48	19.45	19.56	

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	22.57	22.43	22.51	
10	QPSK	1	25	22.38	22.30	22.35	23
10	QPSK	1	49	22.40	22.41	22.32	
10	QPSK	25	0	21.56	21.55	21.50	
10	QPSK	25	12	21.40	21.42	21.45	22
10	QPSK	25	25	21.43	21.38	21.46	
10	QPSK	50	0	21.38	21.35	21.30	
10	16QAM	1	0	21.37	21.25	21.23	22
10	16QAM	1	25	21.30	21.30	21.28	
10	16QAM	1	49	21.17	21.09	21.10	
10	16QAM	25	0	20.41	20.34	20.46	21
10	16QAM	25	12	20.48	20.41	20.37	
10	16QAM	25	25	20.30	20.32	20.33	
10	16QAM	50	0	20.24	20.25	20.28	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	22.45	22.31	22.39	23
5	QPSK	1	12	22.26	22.18	22.23	
5	QPSK	1	24	22.28	22.29	22.20	
5	QPSK	12	0	21.34	21.43	21.38	22
5	QPSK	12	7	21.44	21.30	21.33	
5	QPSK	12	13	21.31	21.26	21.34	
5	QPSK	25	0	21.26	21.23	21.18	22
5	16QAM	1	0	21.25	21.13	21.11	
5	16QAM	1	12	21.18	21.18	21.16	
5	16QAM	1	24	21.05	20.97	20.98	21
5	16QAM	12	0	20.29	20.22	20.34	
5	16QAM	12	7	20.36	20.29	20.25	
5	16QAM	12	13	20.18	20.20	20.21	
5	16QAM	25	0	20.12	20.13	20.16	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	23
3	QPSK	1	0	22.36	22.22	22.30	
3	QPSK	1	8	22.17	22.09	22.14	
3	QPSK	1	14	22.19	22.20	22.11	22
3	QPSK	8	0	21.25	21.34	21.29	
3	QPSK	8	4	21.35	21.21	21.24	
3	QPSK	8	7	21.22	21.17	21.25	22
3	QPSK	15	0	21.17	21.14	21.09	
3	16QAM	1	0	21.16	21.04	21.02	
3	16QAM	1	8	21.09	21.09	21.07	22
3	16QAM	1	14	20.96	20.88	20.89	
3	16QAM	8	0	20.20	20.13	20.25	
3	16QAM	8	4	20.27	20.20	20.16	21
3	16QAM	8	7	20.09	20.11	20.12	
3	16QAM	15	0	20.03	20.04	20.07	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	22.5
1.4	QPSK	1	0	22.24	22.10	22.18	
1.4	QPSK	1	3	22.05	21.97	22.02	
1.4	QPSK	1	5	22.07	22.08	21.99	21.5
1.4	QPSK	3	0	21.13	21.22	21.17	
1.4	QPSK	3	1	21.23	21.09	21.12	
1.4	QPSK	3	3	21.10	21.05	21.13	21.5
1.4	QPSK	6	0	21.05	21.02	20.97	
1.4	16QAM	1	0	21.04	20.92	20.90	
1.4	16QAM	1	3	20.97	20.97	20.95	21.5
1.4	16QAM	1	5	20.84	20.76	20.77	
1.4	16QAM	3	0	20.08	20.01	20.13	
1.4	16QAM	3	1	20.15	20.08	20.04	20.5
1.4	16QAM	3	3	19.97	19.99	20.00	
1.4	16QAM	6	0	19.91	19.92	19.95	

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	21.76	21.80	21.70	22.5
20	QPSK	1	49	21.68	21.72	21.66	
20	QPSK	1	99	21.60	21.68	21.63	
20	QPSK	50	0	20.59	20.63	20.60	21
20	QPSK	50	24	20.56	20.53	20.57	
20	QPSK	50	50	20.48	20.55	20.43	
20	QPSK	100	0	20.40	20.44	20.41	21
20	16QAM	1	0	20.61	20.65	20.55	
20	16QAM	1	49	20.50	20.54	20.52	
20	16QAM	1	99	20.40	20.45	20.41	20
20	16QAM	50	0	19.63	19.68	19.60	
20	16QAM	50	24	19.55	19.65	19.58	
20	16QAM	50	50	19.50	19.60	19.50	
20	16QAM	100	0	19.42	19.51	19.48	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	22
15	QPSK	1	0	21.64	21.68	21.58	
15	QPSK	1	37	21.56	21.60	21.54	
15	QPSK	1	74	21.48	21.56	21.51	21
15	QPSK	36	0	20.50	20.55	20.51	
15	QPSK	36	20	20.49	20.48	20.45	
15	QPSK	36	39	20.36	20.43	20.31	21
15	QPSK	75	0	20.28	20.32	20.29	
15	16QAM	1	0	20.49	20.53	20.43	
15	16QAM	1	37	20.38	20.42	20.40	20
15	16QAM	1	74	20.28	20.33	20.29	
15	16QAM	36	0	19.51	19.56	19.48	
15	16QAM	36	20	19.43	19.53	19.46	
15	16QAM	36	39	19.38	19.48	19.38	
15	16QAM	75	0	19.30	19.39	19.36	21
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	22
10	QPSK	1	0	21.53	21.57	21.47	
10	QPSK	1	25	21.45	21.49	21.43	
10	QPSK	1	49	21.37	21.45	21.40	21
10	QPSK	25	0	20.39	20.44	20.40	
10	QPSK	25	12	20.38	20.37	20.34	
10	QPSK	25	25	20.25	20.32	20.20	21
10	QPSK	50	0	20.17	20.21	20.18	
10	16QAM	1	0	20.38	20.42	20.32	
10	16QAM	1	25	20.27	20.31	20.29	20
10	16QAM	1	49	20.17	20.22	20.18	
10	16QAM	25	0	19.40	19.45	19.37	
10	16QAM	25	12	19.32	19.42	19.35	20
10	16QAM	25	25	19.27	19.37	19.27	
10	16QAM	50	0	19.19	19.28	19.25	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	22
5	QPSK	1	0	21.41	21.45	21.35	
5	QPSK	1	12	21.33	21.37	21.31	
5	QPSK	1	24	21.25	21.33	21.28	21
5	QPSK	12	0	20.27	20.32	20.28	
5	QPSK	12	7	20.26	20.25	20.22	
5	QPSK	12	13	20.13	20.20	20.08	21
5	QPSK	25	0	20.05	20.09	20.06	
5	16QAM	1	0	20.26	20.30	20.20	
5	16QAM	1	12	20.15	20.19	20.17	20
5	16QAM	1	24	20.05	20.10	20.06	
5	16QAM	12	0	19.28	19.33	19.25	
5	16QAM	12	7	19.20	19.30	19.23	20
5	16QAM	12	13	19.15	19.25	19.15	
5	16QAM	25	0	19.07	19.16	19.13	

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	22.44	22.51	22.46	
10	QPSK	1	25	22.38	22.40	22.41	23
10	QPSK	1	49	22.26	22.23	22.30	
10	QPSK	25	0	21.46	21.49	21.40	
10	QPSK	25	12	21.43	21.47	21.45	22
10	QPSK	25	25	21.40	21.42	21.34	
10	QPSK	50	0	21.34	21.36	21.30	
10	16QAM	1	0	21.45	21.48	21.44	22
10	16QAM	1	25	21.39	21.35	21.30	
10	16QAM	1	49	21.30	21.25	21.26	
10	16QAM	25	0	20.46	20.53	20.43	21
10	16QAM	25	12	20.50	20.42	20.39	
10	16QAM	25	25	20.35	20.33	20.28	
10	16QAM	50	0	20.30	20.27	20.21	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	23
5	QPSK	1	0	22.32	22.39	22.34	
5	QPSK	1	12	22.26	22.28	22.29	
5	QPSK	1	24	22.14	22.11	22.18	22
5	QPSK	12	0	21.34	21.37	21.28	
5	QPSK	12	7	21.31	21.35	21.33	
5	QPSK	12	13	21.28	21.30	21.22	22
5	QPSK	25	0	21.22	21.24	21.18	
5	16QAM	1	0	21.33	21.40	21.32	
5	16QAM	1	12	21.27	21.23	21.18	22
5	16QAM	1	24	21.18	21.13	21.14	
5	16QAM	12	0	20.34	20.41	20.31	
5	16QAM	12	7	20.38	20.30	20.27	21
5	16QAM	12	13	20.23	20.21	20.16	
5	16QAM	25	0	20.18	20.15	20.09	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	23
3	QPSK	1	0	22.21	22.28	22.23	
3	QPSK	1	8	22.15	22.17	22.18	
3	QPSK	1	14	22.03	22.00	22.07	22
3	QPSK	8	0	21.23	21.26	21.17	
3	QPSK	8	4	21.20	21.24	21.22	
3	QPSK	8	7	21.17	21.19	21.11	22
3	QPSK	15	0	21.11	21.13	21.07	
3	16QAM	1	0	21.22	21.29	21.21	
3	16QAM	1	8	21.16	21.12	21.07	21
3	16QAM	1	14	21.07	21.02	21.03	
3	16QAM	8	0	20.23	20.30	20.20	
3	16QAM	8	4	20.27	20.19	20.16	21
3	16QAM	8	7	20.12	20.10	20.05	
3	16QAM	15	0	20.07	20.04	19.98	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	22.5
1.4	QPSK	1	0	22.12	22.19	22.14	
1.4	QPSK	1	3	22.06	22.08	22.09	
1.4	QPSK	1	5	21.94	21.91	21.98	
1.4	QPSK	3	0	21.14	21.17	21.08	
1.4	QPSK	3	1	21.11	21.15	21.13	
1.4	QPSK	3	3	21.08	21.10	21.02	21.5
1.4	QPSK	6	0	21.02	21.04	20.98	
1.4	16QAM	1	0	21.13	21.20	21.12	
1.4	16QAM	1	3	21.07	21.03	20.98	21.5
1.4	16QAM	1	5	20.98	20.93	20.94	
1.4	16QAM	3	0	20.14	20.21	20.11	
1.4	16QAM	3	1	20.18	20.10	20.07	
1.4	16QAM	3	3	20.03	20.01	19.96	
1.4	16QAM	6	0	19.98	19.95	19.89	20.5

LTE Band 13							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0	22.65			23
10	QPSK	1	25	22.56			
10	QPSK	1	49	22.32			
10	QPSK	25	0	21.49			22
10	QPSK	25	12	21.51			
10	QPSK	25	25	21.40			
10	QPSK	50	0	21.52			22
10	16QAM	1	0	21.78			
10	16QAM	1	25	21.67			
10	16QAM	1	49	21.54			
10	16QAM	25	0	20.40			21
10	16QAM	25	12	20.60			
10	16QAM	25	25	20.55			
10	16QAM	50	0	20.59			
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	23
5	QPSK	1	0	22.40	22.47	22.42	
5	QPSK	1	12	22.34	22.36	22.37	
5	QPSK	1	24	22.22	22.19	22.26	22
5	QPSK	12	0	21.42	21.45	21.36	
5	QPSK	12	7	21.39	21.43	21.41	
5	QPSK	12	13	21.36	21.38	21.30	22
5	QPSK	25	0	21.30	21.32	21.26	
5	16QAM	1	0	21.41	21.48	21.40	22
5	16QAM	1	12	21.35	21.31	21.26	
5	16QAM	1	24	21.26	21.21	21.22	
5	16QAM	12	0	20.42	20.49	20.39	
5	16QAM	12	7	20.46	20.38	20.35	
5	16QAM	12	13	20.31	20.29	20.24	21
5	16QAM	25	0	20.26	20.23	20.17	

LTE Band 17

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	23
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.47	22.56	22.46	23
10	QPSK	1	25	22.41	22.50	22.42	
10	QPSK	1	49	22.32	22.42	22.35	
10	QPSK	25	0	21.51	21.55	21.46	
10	QPSK	25	12	21.44	21.50	21.39	22
10	QPSK	25	25	21.41	21.46	21.40	
10	QPSK	50	0	21.39	21.40	21.34	
10	16QAM	1	0	21.35	21.44	21.39	
10	16QAM	1	25	21.30	21.38	21.35	22
10	16QAM	1	49	21.20	21.30	21.26	
10	16QAM	25	0	20.72	20.60	20.70	
10	16QAM	25	12	20.66	20.64	20.61	
10	16QAM	25	25	20.52	20.60	20.53	21
10	16QAM	50	0	20.55	20.62	20.48	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.36	22.45	22.35	23
5	QPSK	1	12	22.30	22.39	22.31	
5	QPSK	1	24	22.21	22.31	22.24	
5	QPSK	12	0	21.40	21.44	21.35	
5	QPSK	12	7	21.33	21.39	21.28	22
5	QPSK	12	13	21.30	21.35	21.29	
5	QPSK	25	0	21.28	21.29	21.23	
5	16QAM	1	0	21.24	21.33	21.28	
5	16QAM	1	12	21.19	21.27	21.24	22
5	16QAM	1	24	21.09	21.19	21.15	
5	16QAM	12	0	20.61	20.49	20.59	
5	16QAM	12	7	20.55	20.53	20.50	
5	16QAM	12	13	20.41	20.49	20.42	21
5	16QAM	25	0	20.44	20.51	20.37	

LTE Band 38								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	21.80	21.89	21.87	22.5	
20	QPSK	1	49	21.72	21.69	21.76		
20	QPSK	1	99	20.63	21.70	21.66		
20	QPSK	50	0	20.80	20.92	20.88		
20	QPSK	50	24	20.81	20.76	20.72	21.5	
20	QPSK	50	50	20.80	20.66	20.63		
20	QPSK	100	0	20.77	20.62	20.56		
20	16QAM	1	0	21.08	20.96	21.00		
20	16QAM	1	49	20.90	20.78	20.89	21.5	
20	16QAM	1	99	20.99	20.81	20.83		
20	16QAM	50	0	19.79	19.70	19.68		
20	16QAM	50	24	19.72	19.63	19.71		
20	16QAM	50	50	19.61	19.56	19.58	20.5	
20	16QAM	100	0	19.65	19.60	19.55		
Channel				37825	38000	38175	Tune-up limit (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	21.77	21.68	21.75		
15	QPSK	1	37	21.57	21.60	21.64	22.5	
15	QPSK	1	74	21.58	20.51	21.54		
15	QPSK	36	0	20.80	20.68	20.76		
15	QPSK	36	20	20.69	20.64	20.60		
15	QPSK	36	39	20.68	20.54	20.51	21.5	
15	QPSK	75	0	20.65	20.50	20.44		
15	16QAM	1	0	20.96	20.84	20.88		
15	16QAM	1	37	20.78	20.66	20.77		
15	16QAM	1	74	20.87	20.69	20.71	21.5	
15	16QAM	36	0	19.67	19.58	19.56		
15	16QAM	36	20	19.60	19.51	19.59		
15	16QAM	36	39	19.49	19.44	19.46		
15	16QAM	75	0	19.53	19.48	19.43	20.5	
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)	
10	QPSK	1	0	21.66	21.57	21.64		
10	QPSK	1	25	21.46	21.49	21.53	22	
10	QPSK	1	49	21.47	20.40	21.43		
10	QPSK	25	0	20.69	20.57	20.65		
10	QPSK	25	12	20.58	20.53	20.49		
10	QPSK	25	25	20.57	20.43	20.40	21	
10	QPSK	50	0	20.54	20.39	20.33		
10	16QAM	1	0	20.85	20.73	20.77		
10	16QAM	1	25	20.67	20.55	20.66		
10	16QAM	1	49	20.76	20.58	20.60	20	
10	16QAM	25	0	19.56	19.47	19.45		
10	16QAM	25	12	19.49	19.40	19.48		
10	16QAM	25	25	19.38	19.33	19.35		
10	16QAM	50	0	19.42	19.37	19.32	20	
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)	
5	QPSK	1	0	21.57	21.48	21.55		
5	QPSK	1	12	21.37	21.40	21.44	22	
5	QPSK	1	24	21.38	20.31	21.34		
5	QPSK	12	0	20.60	20.48	20.56		
5	QPSK	12	7	20.49	20.44	20.40		
5	QPSK	12	13	20.48	20.34	20.31	21	
5	QPSK	25	0	20.45	20.30	20.24		
5	16QAM	1	0	20.76	20.64	20.68		
5	16QAM	1	12	20.58	20.46	20.57		
5	16QAM	1	24	20.67	20.49	20.51	21	
5	16QAM	12	0	19.47	19.38	19.36		
5	16QAM	12	7	19.40	19.31	19.39		
5	16QAM	12	13	19.29	19.24	19.26		
5	16QAM	25	0	19.33	19.28	19.23	20	

LTE Band 40A							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	22.96			23.5
10	QPSK	1	25	22.86			
10	QPSK	1	49	22.65			
10	QPSK	25	0	21.98			
10	QPSK	25	12	21.84			22.5
10	QPSK	25	25	21.68			
10	QPSK	50	0	22.15			
10	16QAM	1	0	21.95			
10	16QAM	1	25	21.75			22.5
10	16QAM	1	49	21.63			
10	16QAM	25	0	20.94			
10	16QAM	25	12	20.90			
10	16QAM	25	25	20.76			21.5
10	16QAM	50	0	20.62			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.82	22.90	22.75	23.5
5	QPSK	1	12	22.77	22.78	22.70	
5	QPSK	1	24	22.60	22.63	22.62	
5	QPSK	12	0	21.92	21.80	21.88	
5	QPSK	12	7	21.81	21.76	21.72	22.5
5	QPSK	12	13	21.80	21.66	21.63	
5	QPSK	25	0	21.77	21.62	21.56	
5	16QAM	1	0	22.08	21.96	22.00	
5	16QAM	1	12	21.90	21.78	21.89	22.5
5	16QAM	1	24	21.99	21.81	21.83	
5	16QAM	12	0	20.79	20.70	20.68	
5	16QAM	12	7	20.72	20.63	20.71	
5	16QAM	12	13	20.61	20.56	20.58	21.5
5	16QAM	25	0	20.65	20.60	20.55	

LTE Band 40B							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	23.06			23.5
10	QPSK	1	25	22.95			
10	QPSK	1	49	22.75			
10	QPSK	25	0	22.10			
10	QPSK	25	12	22.07			22.5
10	QPSK	25	25	22.18			
10	QPSK	50	0	21.98			
10	16QAM	1	0	21.97			
10	16QAM	1	25	21.90			22.5
10	16QAM	1	49	21.86			
10	16QAM	25	0	21.27			
10	16QAM	25	12	21.23			
10	16QAM	25	25	21.00			21.5
10	16QAM	50	0	20.85			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	22.91	22.92	22.87	23.5
5	QPSK	1	12	22.89	22.90	22.82	
5	QPSK	1	24	22.72	22.75	22.74	
5	QPSK	12	0	22.04	21.92	22.00	
5	QPSK	12	7	21.93	21.88	21.84	22.5
5	QPSK	12	13	21.92	21.78	21.75	
5	QPSK	25	0	21.89	21.74	21.68	
5	16QAM	1	0	22.20	22.08	22.12	
5	16QAM	1	12	22.02	21.90	22.01	22.5
5	16QAM	1	24	22.11	21.93	21.95	
5	16QAM	12	0	20.91	20.82	20.80	
5	16QAM	12	7	20.84	20.75	20.83	
5	16QAM	12	13	20.73	20.68	20.70	21.5
5	16QAM	25	0	20.77	20.72	20.67	

LTE Band 41										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.34	22.46	22.43	22.40	22.37	23	
20	QPSK	1	49	22.30	22.43	22.35	22.37	22.23		
20	QPSK	1	99	22.25	22.12	22.29	22.17	22.26		
20	QPSK	50	0	21.38	21.52	21.41	21.39	21.48		
20	QPSK	50	24	21.36	21.36	21.35	21.32	21.46	22	
20	QPSK	50	50	21.30	21.31	21.39	21.26	21.39		
20	QPSK	100	0	21.34	21.38	21.40	21.28	21.28		
20	16QAM	1	0	21.12	21.24	21.21	21.18	21.15		
20	16QAM	1	49	21.08	21.21	21.13	21.15	21.01	22	
20	16QAM	1	99	21.03	20.90	21.07	20.95	21.04		
20	16QAM	50	0	20.16	20.30	20.19	20.17	20.26		
20	16QAM	50	24	20.14	20.14	20.13	20.10	20.24		
20	16QAM	50	50	20.08	20.09	20.17	20.04	20.17	21	
20	16QAM	100	0	20.12	20.16	20.18	20.06	20.06		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.25	22.37	22.34	22.31	22.28	23	
15	QPSK	1	37	22.21	22.34	22.26	22.28	22.14		
15	QPSK	1	74	22.16	22.03	22.20	22.08	22.17		
15	QPSK	36	0	21.29	21.43	21.32	21.30	21.39		
15	QPSK	36	20	21.27	21.27	21.26	21.23	21.37	22	
15	QPSK	36	39	21.21	21.22	21.30	21.17	21.30		
15	QPSK	75	0	21.25	21.29	21.31	21.19	21.19		
15	16QAM	1	0	21.04	21.16	21.13	21.10	21.07		
15	16QAM	1	37	21.00	21.13	21.05	21.07	20.93	21.5	
15	16QAM	1	74	20.95	20.82	20.99	20.87	20.96		
15	16QAM	36	0	20.08	20.22	20.11	20.09	20.18		
15	16QAM	36	20	20.06	20.06	20.05	20.02	20.16		
15	16QAM	36	39	20.00	20.01	20.09	19.96	20.09	20.5	
15	16QAM	75	0	20.04	20.08	20.10	19.98	19.98		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.13	22.25	22.22	22.19	22.16	23	
10	QPSK	1	25	22.09	22.22	22.14	22.16	22.02		
10	QPSK	1	49	22.04	21.91	22.08	21.96	22.05		
10	QPSK	25	0	21.17	21.31	21.20	21.18	21.27		
10	QPSK	25	12	21.15	21.15	21.14	21.11	21.25	22	
10	QPSK	25	25	21.09	21.10	21.18	21.05	21.18		
10	QPSK	50	0	21.13	21.17	21.19	21.07	21.07		
10	16QAM	1	0	20.92	21.04	21.01	20.98	20.95		
10	16QAM	1	25	20.88	21.01	20.93	20.95	20.81	21.5	
10	16QAM	1	49	20.83	20.70	20.87	20.75	20.84		
10	16QAM	25	0	19.96	20.10	19.99	19.97	20.06		
10	16QAM	25	12	19.94	19.94	19.93	19.90	20.04		
10	16QAM	25	25	19.88	19.89	19.97	19.84	19.97	20.5	
10	16QAM	50	0	19.92	19.96	19.98	19.86	19.86		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.02	22.14	22.11	22.08	22.05	22.5	
5	QPSK	1	12	21.98	22.11	22.03	22.05	21.91		
5	QPSK	1	24	21.93	21.80	21.97	21.85	21.94		
5	QPSK	12	0	21.06	21.20	21.09	21.07	21.16		
5	QPSK	12	7	21.04	21.04	21.03	21.00	21.14	21.5	
5	QPSK	12	13	20.98	20.99	21.07	20.94	21.07		
5	QPSK	25	0	21.02	21.06	21.08	20.96	20.96		
5	16QAM	1	0	20.81	20.93	20.90	20.87	20.84		
5	16QAM	1	12	20.77	20.90	20.82	20.84	20.70	21.5	
5	16QAM	1	24	20.72	20.59	20.76	20.64	20.73		
5	16QAM	12	0	19.85	19.99	19.88	19.86	19.95		
5	16QAM	12	7	19.83	19.83	19.82	19.79	19.93		
5	16QAM	12	13	19.77	19.78	19.86	19.73	19.86	20.5	
5	16QAM	25	0	19.81	19.85	19.87	19.75	19.75		