



REPORT No. : SZ21050090S01

Annex E1 Conducted Full 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	824.2	836.4	848.8			
GSM 1 Tx slot	32.31	32.29	32.38	33.00	23.31	23.29	23.38	24.00	
GPRS 1 Tx slot	32.29	32.32	32.31	33.00	23.29	23.32	23.31	24.00	
GPRS 2 Tx slots	30.23	30.20	30.21	31.00	24.23	24.20	24.21	25.00	
GPRS 3 Tx slots	28.31	28.32	28.30	29.00	24.05	24.06	24.04	24.74	
GPRS 4 Tx slots	26.08	26.09	26.11	27.00	23.08	23.09	23.11	24.00	
EDGE 1 Tx slot	25.23	25.70	25.43	26.50	16.23	16.70	16.43	17.50	
EDGE 2 Tx slots	24.83	25.57	25.28	26.00	18.83	19.57	19.28	20.00	
EDGE 3 Tx slots	23.68	24.28	24.07	24.50	19.42	20.02	19.81	20.24	
EDGE 4 Tx slots	20.73	21.73	21.13	22.50	17.73	18.73	18.13	19.50	

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	1850.2	1880	1909.8			
GSM 1 Tx slot	27.81	27.54	27.63	28.50	18.81	18.54	18.63	19.50	
GPRS 1 Tx slot	27.79	27.46	27.55	28.50	18.79	18.46	18.55	19.50	
GPRS 2 Tx slots	25.68	25.23	25.18	26.50	19.68	19.23	19.18	20.50	
GPRS 3 Tx slots	24.15	24.25	24.17	25.00	19.89	19.99	19.91	20.74	
GPRS 4 Tx slots	22.18	21.74	21.69	23.00	19.18	18.74	18.69	20.00	
EDGE 1 Tx slot	26.77	26.68	25.42	27.00	17.77	17.68	16.42	18.00	
EDGE 2 Tx slots	25.81	25.87	25.37	26.00	19.81	19.87	19.37	20.00	
EDGE 3 Tx slots	24.32	24.39	23.71	24.50	20.06	20.13	19.45	20.24	
EDGE 4 Tx slots	21.89	21.88	20.38	22.00	18.89	18.88	17.38	19.00	

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)
TX Channel	9262	9400	9538	1312		1413	1513		
Rx Channel	9662	9800	9938	1537	1638	1738			
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6			
3GPP Rel 99 RMC 12.2Kbps	20.75	20.86	20.78	21.50	21.60	21.66	21.64	22.00	
3GPP Rel 6 HSDPA Subtest-1	20.83	20.31	20.66	21.50	20.10	19.59	20.45	21.00	
3GPP Rel 6 HSDPA Subtest-2	20.75	19.95	20.33	21.50	20.64	20.17	20.97	21.50	
3GPP Rel 6 HSDPA Subtest-3	20.80	20.17	20.52	21.00	20.62	20.17	20.94	21.50	
3GPP Rel 6 HSDPA Subtest-4	20.82	19.83	20.19	21.00	20.63	20.18	20.95	21.50	
3GPP Rel 6 HSUPA Subtest-1	20.81	20.35	20.72	21.50	21.32	21.07	21.35	22.00	
3GPP Rel 6 HSUPA Subtest-2	20.79	20.28	20.67	21.50	21.31	21.08	21.33	22.00	
3GPP Rel 6 HSUPA Subtest-3	20.84	20.28	20.69	21.50	21.38	21.07	21.32	22.00	
3GPP Rel 6 HSUPA Subtest-4	20.76	20.26	20.64	21.50	21.32	21.07	21.38	22.00	
3GPP Rel 6 HSUPA Subtest-5	20.75	20.28	20.67	21.50	21.30	21.12	21.37	22.00	
3GPP Rel 7 HSPA+ (16QAM) Subtest-	20.85	20.37	20.72	21.50	21.28	21.09	21.36	22.00	

Band		WCDMA Band V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99 RMC 12.2Kbps	22.23	22.25	22.21	23.00	
3GPP Rel 6 HSDPA Subtest-1	20.99	21.31	20.98	22.00	
3GPP Rel 6 HSDPA Subtest-2	20.31	20.61	20.29	21.00	
3GPP Rel 6 HSDPA Subtest-3	20.00	20.31	19.98	21.00	
3GPP Rel 6 HSDPA Subtest-4	19.91	20.21	19.89	21.00	
3GPP Rel 6 HSUPA Subtest-1	21.30	21.59	21.44	22.00	
3GPP Rel 6 HSUPA Subtest-2	21.26	21.56	21.41	22.00	
3GPP Rel 6 HSUPA Subtest-3	21.28	21.55	21.38	22.00	
3GPP Rel 6 HSUPA Subtest-4	21.23	21.58	21.39	22.00	
3GPP Rel 6 HSUPA Subtest-5	21.30	21.57	21.40	22.00	
3GPP Rel 7 HSPA+ (16QAM) Subtest-	21.29	21.50	21.34	22.00	

3	64QAM	1	8	19.42	19.67	19.72	20.00
3	64QAM	1	14	19.38	19.57	19.60	
3	64QAM	8	0	18.87	19.18	19.09	
3	64QAM	8	4	18.76	19.07	19.02	20.00
3	64QAM	8	7	18.74	19.08	18.96	
3	64QAM	15	0	18.72	19.19	18.84	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.54	21.00	20.72	
1.4	QPSK	1	3	20.51	20.79	20.64	
1.4	QPSK	1	5	20.53	20.81	20.51	
1.4	QPSK	3	0	19.77	20.17	19.78	22.00
1.4	QPSK	3	1	19.72	20.13	19.73	
1.4	QPSK	3	3	19.69	20.11	19.74	
1.4	QPSK	6	0	19.44	19.82	19.79	21.00
1.4	16QAM	1	0	19.23	19.70	19.51	
1.4	16QAM	1	3	19.45	19.59	19.32	
1.4	16QAM	1	5	19.29	19.56	19.29	
1.4	16QAM	3	0	18.69	19.00	19.07	21.00
1.4	16QAM	3	1	18.63	18.88	18.93	
1.4	16QAM	3	3	18.58	18.82	18.89	
1.4	16QAM	6	0	18.69	19.15	18.89	20.00
1.4	64QAM	1	0	19.42	19.61	19.80	
1.4	64QAM	1	3	19.39	19.64	19.69	
1.4	64QAM	1	5	19.35	19.54	19.57	
1.4	64QAM	3	0	18.84	19.15	19.06	21.00
1.4	64QAM	3	1	18.73	19.04	18.99	
1.4	64QAM	3	3	18.71	19.05	18.93	
1.4	64QAM	6	0	18.69	19.16	18.81	20.00

3	64QAM	1	8	19.48	19.40	19.42	20.00
3	64QAM	1	14	19.59	19.10	19.51	
3	64QAM	8	0	18.75	18.55	18.48	
3	64QAM	8	4	18.72	18.60	18.53	19.50
3	64QAM	8	7	18.58	18.54	18.97	
3	64QAM	15	0	18.78	18.33	18.63	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.15	21.18	21.02	
1.4	QPSK	1	3	21.11	21.09	20.90	
1.4	QPSK	1	5	21.08	21.01	20.91	21.50
1.4	QPSK	3	0	20.22	20.39	20.12	
1.4	QPSK	3	1	20.08	20.03	20.05	
1.4	QPSK	3	3	20.08	20.18	20.06	
1.4	QPSK	6	0	20.14	20.18	20.01	21.00
1.4	16QAM	1	0	20.52	20.31	20.42	
1.4	16QAM	1	3	20.27	20.50	20.49	
1.4	16QAM	1	5	20.40	20.07	20.36	21.00
1.4	16QAM	3	0	19.38	19.26	19.39	
1.4	16QAM	3	1	19.38	19.35	19.26	
1.4	16QAM	3	3	19.31	19.20	19.17	
1.4	16QAM	6	0	19.37	19.18	19.23	20.00
1.4	64QAM	1	0	19.31	19.54	19.33	
1.4	64QAM	1	3	19.46	19.38	19.40	
1.4	64QAM	1	5	19.57	19.08	19.49	
1.4	64QAM	3	0	18.73	18.53	18.46	20.00
1.4	64QAM	3	1	18.70	18.58	18.51	
1.4	64QAM	3	3	18.56	18.52	18.95	
1.4	64QAM	6	0	18.76	18.31	18.61	19.00

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	21.52	21.68	21.55	22	
20	QPSK	1	49	21.35	21.46	21.24		
20	QPSK	1	99	21.21	21.18	21.33		
20	QPSK	50	0	20.14	20.37	20.15		
20	QPSK	50	24	20.18	20.29	20.23	21	
20	QPSK	50	50	20.23	20.16	20.12		
20	QPSK	100	0	20.15	20.29	20.13		
20	16QAM	1	0	20.39	20.69	20.42		
20	16QAM	1	49	20.64	20.71	20.49	21	
20	16QAM	1	99	20.59	20.69	20.41		
20	16QAM	50	0	19.42	19.49	19.31		
20	16QAM	50	24	19.46	19.41	19.35		
20	16QAM	50	50	19.39	19.39	19.35	20	
20	16QAM	100	0	19.42	19.31	19.43		
20	64QAM	1	0	19.50	19.53	19.54		
20	64QAM	1	49	19.58	19.62	19.61		
20	64QAM	1	99	19.54	19.59	19.62	20	
20	64QAM	50	0	18.97	18.49	18.89		
20	64QAM	50	24	18.85	18.61	18.72		
20	64QAM	50	50	18.97	18.86	18.73		
20	64QAM	100	0	19.02	18.54	18.53	19.5	
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	21.18	21.22	21.21		22
15	QPSK	1	37	21.04	20.99	21.12		
15	QPSK	1	74	21.11	21.03	21.16		
15	QPSK	36	0	20.11	20.34	20.12		
15	QPSK	36	20	20.15	20.26	20.20	21	
15	QPSK	36	39	20.20	20.13	20.09		
15	QPSK	75	0	20.12	20.26	20.10		
15	16QAM	1	0	20.36	20.66	20.39		
15	16QAM	1	37	20.61	20.68	20.46	21	
15	16QAM	1	74	20.56	20.66	20.38		
15	16QAM	36	0	19.39	19.46	19.28		
15	16QAM	36	20	19.43	19.38	19.32		
15	16QAM	36	39	19.36	19.36	19.32	20	
15	16QAM	75	0	19.39	19.28	19.40		
15	64QAM	1	0	19.47	19.50	19.51		
15	64QAM	1	37	19.55	19.59	19.58		
15	64QAM	1	74	19.51	19.56	19.59	20	
15	64QAM	36	0	18.94	18.46	18.86		
15	64QAM	36	20	18.82	18.58	18.69		
15	64QAM	36	39	18.94	18.83	18.70		
15	64QAM	75	0	18.99	18.51	18.50	19.5	
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	21.15	21.19	21.18		22
10	QPSK	1	25	21.01	20.96	21.09		
10	QPSK	1	49	21.08	21.00	21.13		
10	QPSK	25	0	20.08	20.31	20.09		
10	QPSK	25	12	20.12	20.23	20.17	21	
10	QPSK	25	25	20.17	20.10	20.06		
10	QPSK	50	0	20.09	20.23	20.07		
10	16QAM	1	0	20.33	20.63	20.36		
10	16QAM	1	25	20.58	20.65	20.43	21	
10	16QAM	1	49	20.53	20.63	20.35		
10	16QAM	25	0	19.36	19.43	19.25		
10	16QAM	25	12	19.40	19.35	19.29		
10	16QAM	25	25	19.33	19.33	19.29	20	
10	16QAM	50	0	19.36	19.25	19.37		
10	64QAM	1	0	19.44	19.47	19.48		
10	64QAM	1	25	19.52	19.56	19.55		
10	64QAM	1	49	19.48	19.53	19.56	20	
10	64QAM	25	0	18.91	18.43	18.83		
10	64QAM	25	12	18.79	18.55	18.66		
10	64QAM	25	25	18.91	18.80	18.67		
10	64QAM	50	0	18.96	18.48	18.47	19.5	
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	21.12	21.16	21.15		22
5	QPSK	1	12	20.98	20.93	21.06		
5	QPSK	1	24	21.05	20.97	21.10		
5	QPSK	12	0	20.05	20.28	20.06		
5	QPSK	12	7	20.09	20.20	20.14	21	
5	QPSK	12	13	20.14	20.07	20.03		
5	QPSK	25	0	20.06	20.20	20.04		
5	16QAM	1	0	20.30	20.60	20.33		
5	16QAM	1	12	20.55	20.62	20.40	21	
5	16QAM	1	24	20.50	20.60	20.32		
5	16QAM	12	0	19.33	19.40	19.22		
5	16QAM	12	7	19.37	19.32	19.26		
5	16QAM	12	13	19.30	19.30	19.26	20	
5	16QAM	25	0	19.33	19.22	19.34		
5	64QAM	1	0	19.41	19.44	19.45		
5	64QAM	1	12	19.49	19.53	19.52		
5	64QAM	1	24	19.45	19.50	19.53	20	
5	64QAM	12	0	18.88	18.40	18.80		
5	64QAM	12	7	18.76	18.52	18.63		
5	64QAM	12	13	18.88	18.77	18.64		
5	64QAM	25	0	18.93	18.45	18.44	19.5	
Channel				131967	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	21.07	21.11	21.10		22
3	QPSK	1	8	20.93	20.88	21.01		
3	QPSK	1	14	21.00	20.92	21.05		
3	QPSK	8	0	20.00	20.23	20.01		
3	QPSK	8	4	20.04	20.15	20.09	21	
3	QPSK	8	7	20.09	20.02	19.98		
3	QPSK	15	0	20.01	20.15	19.99		
3	16QAM	1	0	20.25	20.55	20.28		
3	16QAM	1	8	20.50	20.57	20.35	21	
3	16QAM	1	14	20.45	20.55	20.27		
3	16QAM	8	0	19.28	19.35	19.17		
3	16QAM	8	4	19.32	19.27	19.21		
3	16QAM	8	7	19.25	19.25	19.21	20	
3	16QAM	15	0	19.28	19.17	19.29		
3	64QAM	1	0	19.38	19.41	19.42		

3	64QAM	1	8	19.46	19.50	19.49	20
3	64QAM	1	14	19.42	19.47	19.50	
3	64QAM	8	0	18.85	18.37	18.77	19.5
3	64QAM	8	4	18.73	18.49	18.60	
3	64QAM	8	7	18.85	18.74	18.61	
3	64QAM	15	0	18.90	18.42	18.41	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.05	21.09	21.08	22
1.4	QPSK	1	3	20.91	20.86	20.99	
1.4	QPSK	1	5	20.98	20.90	21.03	
1.4	QPSK	3	0	19.98	20.21	19.99	
1.4	QPSK	3	1	20.02	20.13	20.07	
1.4	QPSK	3	3	20.07	20.00	19.96	
1.4	QPSK	6	0	19.99	20.13	19.97	21
1.4	16QAM	1	0	20.23	20.53	20.26	
1.4	16QAM	1	3	20.48	20.55	20.33	21
1.4	16QAM	1	5	20.43	20.53	20.25	
1.4	16QAM	3	0	19.26	19.33	19.15	
1.4	16QAM	3	1	19.30	19.25	19.19	
1.4	16QAM	3	3	19.23	19.23	19.19	
1.4	16QAM	6	0	19.26	19.15	19.27	20
1.4	64QAM	1	0	19.35	19.38	19.39	
1.4	64QAM	1	3	19.43	19.47	19.46	20
1.4	64QAM	1	5	19.39	19.44	19.47	
1.4	64QAM	3	0	18.82	18.34	18.74	
1.4	64QAM	3	1	18.70	18.46	18.57	
1.4	64QAM	3	3	18.82	18.71	18.58	
1.4	64QAM	6	0	18.87	18.39	18.38	



REPORT No. : SZ210500090S01

Annex E2 Conducted Reduced 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		824.2	836.4	848.8	
GSM 1 Tx slot		25.48	25.44	25.49	26.00	16.48	16.44	16.49	17.00
GPRS 1 Tx slot		25.48	25.44	25.42	26.00	16.48	16.44	16.42	17.00
GPRS 2 Tx slots		24.25	24.22	24.11	25.00	18.25	18.22	18.11	19.00
GPRS 3 Tx slots		22.02	22.02	21.91	22.50	17.76	17.76	17.65	18.24
GPRS 4 Tx slots		19.48	19.74	19.57	21.00	16.48	16.74	16.57	18.00
EDGE 1 Tx slot		19.23	19.66	19.33	20.50	10.23	10.66	10.33	11.50
EDGE 2 Tx slots		18.37	18.80	18.85	20.00	12.37	12.80	12.85	14.00
EDGE 3 Tx slots		15.62	16.08	16.05	17.50	11.36	11.82	11.79	13.24
EDGE 4 Tx slots		11.36	11.82	11.71	13.00	8.36	8.82	8.71	10.00

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		1850.2	1880	1909.8	
GSM 1 Tx slot		22.15	21.80	21.74	22.50	13.15	12.80	12.74	13.50
GPRS 1 Tx slot		22.20	21.82	21.76	23.00	13.20	12.82	12.76	14.00
GPRS 2 Tx slots		21.12	20.75	20.63	21.50	15.12	14.75	14.63	15.50
GPRS 3 Tx slots		18.97	19.38	18.93	20.00	14.71	15.12	14.67	15.74
GPRS 4 Tx slots		15.93	15.62	15.51	16.50	12.93	12.62	12.51	13.50
EDGE 1 Tx slot		15.15	14.95	14.66	16.00	6.15	5.95	5.66	7.00
EDGE 2 Tx slots		13.17	13.06	12.71	14.00	7.17	7.06	6.71	8.00
EDGE 3 Tx slots		10.49	10.47	10.01	11.50	6.23	6.21	5.75	7.24
EDGE 4 Tx slots		6.84	6.91	6.49	7.50	3.84	3.91	3.49	4.50

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99	RMC 12.2Kbps	12.92	13.34	13.07	14.00	12.90	13.22	12.78	13.50
3GPP Rel 6	HSDPA Subtest-1	13.33	12.81	13.16	14.00	11.60	11.09	11.95	12.50
3GPP Rel 6	HSDPA Subtest-2	13.25	12.45	12.83	14.00	12.14	11.67	12.47	13.00
3GPP Rel 6	HSDPA Subtest-3	13.30	12.67	13.02	13.50	12.12	11.67	12.44	13.00
3GPP Rel 6	HSDPA Subtest-4	13.32	12.33	12.69	13.50	12.13	11.68	12.45	13.00
3GPP Rel 6	HSUPA Subtest-1	13.31	12.85	13.22	14.00	12.82	12.57	12.85	13.50
3GPP Rel 6	HSUPA Subtest-2	13.29	12.78	13.17	14.00	12.81	12.58	12.83	13.50
3GPP Rel 6	HSUPA Subtest-3	13.34	12.78	13.19	14.00	12.88	12.57	12.82	13.50
3GPP Rel 6	HSUPA Subtest-4	13.26	12.76	13.14	14.00	12.82	12.57	12.88	13.50
3GPP Rel 6	HSUPA Subtest-5	13.25	12.78	13.17	14.00	12.80	12.62	12.87	13.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-	13.35	12.87	13.22	14.00	12.78	12.59	12.86	13.50

Band		WCDMA Band V			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	12.80	13.05	13.03	13.50
3GPP Rel 6	HSDPA Subtest-1	11.49	11.81	11.48	12.50
3GPP Rel 6	HSDPA Subtest-2	10.81	11.11	10.79	11.50
3GPP Rel 6	HSDPA Subtest-3	10.50	10.81	10.48	11.50
3GPP Rel 6	HSDPA Subtest-4	10.41	10.71	10.39	11.50
3GPP Rel 6	HSUPA Subtest-1	11.80	12.09	11.94	12.50
3GPP Rel 6	HSUPA Subtest-2	11.76	12.06	11.91	12.50
3GPP Rel 6	HSUPA Subtest-3	11.78	12.05	11.88	12.50
3GPP Rel 6	HSUPA Subtest-4	11.73	12.08	11.89	12.50
3GPP Rel 6	HSUPA Subtest-5	11.80	12.07	11.90	12.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-	11.79	12.00	11.84	12.50

3	64QAM	1	0	12.59	12.78	12.97	13.5
3	64QAM	1	8	12.56	12.81	12.86	
3	64QAM	1	14	12.52	12.71	12.74	
3	64QAM	8	0	12.01	12.32	12.23	13
3	64QAM	8	4	11.90	12.21	12.16	
3	64QAM	8	7	11.88	12.22	12.10	
3	64QAM	15	0	11.86	12.33	11.98	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	14.08	14.14	14.10	15
1.4	QPSK	1	3	13.65	13.93	13.78	
1.4	QPSK	1	5	13.67	13.95	13.65	
1.4	QPSK	3	0	13.22	13.31	13.26	
1.4	QPSK	3	1	12.86	13.27	12.87	
1.4	QPSK	3	3	12.83	13.25	12.88	
1.4	QPSK	6	0	12.58	12.96	12.93	13.5
1.4	16QAM	1	0	12.37	12.84	12.65	13.5
1.4	16QAM	1	3	12.59	12.73	12.46	
1.4	16QAM	1	5	12.43	12.70	12.43	
1.4	16QAM	3	0	11.83	12.14	12.21	
1.4	16QAM	3	1	11.77	12.02	12.07	
1.4	16QAM	3	3	11.72	11.96	12.03	
1.4	16QAM	6	0	11.83	12.29	12.03	13
1.4	64QAM	1	0	12.56	12.75	12.94	13.5
1.4	64QAM	1	3	12.53	12.78	12.83	
1.4	64QAM	1	5	12.49	12.68	12.71	
1.4	64QAM	3	0	11.98	12.29	12.20	
1.4	64QAM	3	1	11.87	12.18	12.13	
1.4	64QAM	3	3	11.85	12.19	12.07	
1.4	64QAM	6	0	11.83	12.30	11.95	13

3	16QAM	1	0	12.54	12.77	12.56	13.5	
3	16QAM	1	8	12.69	12.61	12.63		
3	16QAM	1	14	12.80	12.31	12.72		
3	16QAM	8	0	11.96	11.76	11.69	13	
3	16QAM	8	4	11.93	11.81	11.74		
3	16QAM	8	7	11.79	11.75	12.18		
3	16QAM	15	0	11.99	11.54	11.84		
Channel				19957	20175	20393		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	14.35	14.38	14.22	15.5	
1.4	QPSK	1	3	14.31	14.29	14.10		
1.4	QPSK	1	5	14.28	14.21	14.11		
1.4	QPSK	3	0	13.42	13.59	13.32		
1.4	QPSK	3	1	13.28	13.23	13.25		
1.4	QPSK	3	3	13.28	13.38	13.26		
1.4	QPSK	6	0	13.34	13.38	13.21	14.5	
1.4	16QAM	1	0	13.72	13.51	13.62	14.5	
1.4	16QAM	1	3	13.47	13.70	13.69		
1.4	16QAM	1	5	13.60	13.27	13.56		
1.4	16QAM	3	0	12.58	12.46	12.59		
1.4	16QAM	3	1	12.58	12.55	12.46		
1.4	16QAM	3	3	12.51	12.40	12.37		
1.4	16QAM	6	0	12.57	12.38	12.43	13.5	
1.4	16QAM	1	0	12.51	12.74	12.53	13.5	
1.4	16QAM	1	3	12.66	12.58	12.60		
1.4	16QAM	1	5	12.77	12.28	12.69		
1.4	16QAM	3	0	11.93	11.73	11.66		
1.4	16QAM	3	1	11.90	11.78	11.71		
1.4	16QAM	3	3	11.76	11.72	12.15		
1.4	16QAM	6	0	11.96	11.51	11.81	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	21.75	22.06	21.91	22.5
10	QPSK	1	25	21.59	21.82	21.83	
10	QPSK	1	49	21.42	21.69	21.56	
10	QPSK	25	0	21.03	21.06	21.04	21.5
10	QPSK	25	12	20.71	20.85	20.83	
10	QPSK	25	25	20.77	21.13	21.16	
10	QPSK	50	0	20.73	20.80	20.74	22
10	16QAM	1	0	21.35	21.38	21.10	
10	16QAM	1	25	21.15	21.37	20.93	
10	16QAM	1	49	20.96	20.88	20.89	21
10	16QAM	25	0	20.16	20.19	20.06	
10	16QAM	25	12	19.94	20.39	20.26	
10	16QAM	25	25	20.14	20.34	20.41	21
10	16QAM	50	0	20.04	20.08	20.25	
10	64QAM	1	0	20.12	20.42	20.30	
10	64QAM	1	25	20.04	20.05	20.41	18.5
10	64QAM	1	49	19.96	19.99	20.33	
10	64QAM	25	0	17.66	18.05	17.70	
10	64QAM	25	12	17.64	17.97	18.00	18.5
10	64QAM	25	25	17.58	17.83	17.62	
10	64QAM	50	0	17.35	17.82	17.60	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	21.71	21.88	21.87	22.5
5	QPSK	1	12	21.55	21.78	21.79	
5	QPSK	1	24	21.38	21.65	21.52	
5	QPSK	12	0	20.99	21.02	21.00	21.5
5	QPSK	12	7	20.67	20.81	20.79	
5	QPSK	12	13	20.73	21.09	21.12	
5	QPSK	25	0	20.69	20.76	20.70	22
5	16QAM	1	0	21.31	21.34	21.06	
5	16QAM	1	12	21.11	21.33	20.89	
5	16QAM	1	24	20.92	20.84	20.85	21
5	16QAM	12	0	20.12	20.15	20.02	
5	16QAM	12	7	19.90	20.35	20.22	
5	16QAM	12	13	20.10	20.30	20.37	21
5	16QAM	25	0	20.00	20.04	20.21	
5	64QAM	1	0	20.08	20.38	20.26	
5	64QAM	1	12	20.00	20.01	20.37	18.5
5	64QAM	1	24	19.92	19.95	20.29	
5	64QAM	12	0	17.62	18.01	17.66	
5	64QAM	12	7	17.60	17.93	17.96	18.5
5	64QAM	12	13	17.54	17.79	17.58	
5	64QAM	25	0	17.31	17.78	17.56	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	21.68	21.85	21.84	22.5
3	QPSK	1	8	21.52	21.75	21.76	
3	QPSK	1	14	21.35	21.62	21.49	
3	QPSK	8	0	20.96	20.99	20.97	21.5
3	QPSK	8	4	20.64	20.78	20.76	
3	QPSK	8	7	20.70	21.06	21.09	
3	QPSK	15	0	20.66	20.73	20.67	22
3	16QAM	1	0	21.28	21.31	21.03	
3	16QAM	1	8	21.08	21.30	20.86	
3	16QAM	1	14	20.89	20.81	20.82	21
3	16QAM	8	0	20.09	20.12	19.99	
3	16QAM	8	4	19.87	20.32	20.19	
3	16QAM	8	7	20.07	20.27	20.34	21
3	16QAM	15	0	19.97	20.01	20.18	
3	64QAM	1	0	20.05	20.35	20.23	
3	64QAM	1	8	19.97	19.98	20.34	21
3	64QAM	1	14	19.89	19.92	20.26	
3	64QAM	8	0	17.59	17.98	17.63	
3	64QAM	8	4	17.57	17.90	17.93	18.5
3	64QAM	8	7	17.51	17.76	17.55	
3	64QAM	15	0	17.28	17.75	17.53	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	21.65	21.82	21.81	22.5
1.4	QPSK	1	3	21.49	21.72	21.73	
1.4	QPSK	1	5	21.32	21.59	21.46	
1.4	QPSK	3	0	20.93	20.96	20.94	21.5
1.4	QPSK	3	1	20.61	20.75	20.73	
1.4	QPSK	3	3	20.67	21.03	21.06	
1.4	QPSK	6	0	20.63	20.70	20.64	22
1.4	16QAM	1	0	21.25	21.28	21.00	
1.4	16QAM	1	3	21.05	21.27	20.83	
1.4	16QAM	1	5	20.86	20.78	20.79	21
1.4	16QAM	3	0	20.06	20.09	19.96	
1.4	16QAM	3	1	19.84	20.29	20.16	
1.4	16QAM	3	3	20.04	20.24	20.31	21
1.4	16QAM	6	0	19.94	19.98	20.15	
1.4	64QAM	1	0	20.02	20.32	20.20	
1.4	64QAM	1	3	19.94	19.95	20.31	21
1.4	64QAM	1	5	19.86	19.89	20.23	
1.4	64QAM	3	0	17.56	17.95	17.60	
1.4	64QAM	3	1	17.54	17.87	17.90	18.5
1.4	64QAM	3	3	17.48	17.73	17.52	
1.4	64QAM	6	0	17.25	17.72	17.50	

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	21.88	22.02	21.80	22.5
10	QPSK	1	25	21.85	21.96	21.71	
10	QPSK	1	49	21.87	21.88	21.65	
10	QPSK	25	0	21.02	21.05	21.03	21.5
10	QPSK	25	12	20.88	20.88	20.94	
10	QPSK	25	25	20.72	20.90	20.90	
10	QPSK	50	0	21.22	21.24	21.19	22
10	16QAM	1	0	21.27	21.35	21.31	
10	16QAM	1	25	21.18	21.25	21.25	
10	16QAM	1	49	21.15	21.21	21.23	21
10	16QAM	25	0	20.15	20.27	20.21	
10	16QAM	25	12	19.97	20.07	20.18	
10	16QAM	25	25	20.18	20.11	20.15	21
10	16QAM	50	0	19.87	20.08	20.13	
10	64QAM	1	0	20.25	20.29	20.24	
10	64QAM	1	25	20.14	20.19	20.06	18.5
10	64QAM	1	49	20.00	20.22	19.83	
10	64QAM	25	0	17.97	18.13	18.11	
10	64QAM	25	12	17.77	18.15	18.08	18.5
10	64QAM	25	25	17.65	17.67	17.66	
10	64QAM	50	0	17.51	17.58	17.41	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	21.84	22.03	21.76	22.5
5	QPSK	1	12	21.81	21.92	21.67	
5	QPSK	1	24	21.83	21.84	21.61	
5	QPSK	12	0	20.98	21.01	20.99	21.5
5	QPSK	12	7	20.84	20.84	20.90	
5	QPSK	12	13	20.68	20.86	20.86	
5	QPSK	25	0	21.18	21.20	21.15	22
5	16QAM	1	0	21.23	21.31	21.27	
5	16QAM	1	12	21.14	21.21	21.21	
5	16QAM	1	24	21.11	21.17	21.19	21
5	16QAM	12	0	20.11	20.23	20.17	
5	16QAM	12	7	19.93	20.03	20.14	
5	16QAM	12	13	20.14	20.07	20.11	21
5	16QAM	25	0	19.83	20.04	20.09	
5	64QAM	1	0	20.21	20.25	20.20	
5	64QAM	1	12	20.10	20.15	20.02	18.5
5	64QAM	1	24	19.96	20.18	19.79	
5	64QAM	12	0	17.93	18.09	18.07	
5	64QAM	12	7	17.73	18.11	18.04	18.5
5	64QAM	12	13	17.61	17.63	17.62	
5	64QAM	25	0	17.47	17.54	17.37	

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	14.64	14.68	14.67	15.5
20	QPSK	1	49	14.50	14.45	14.58	
20	QPSK	1	99	14.57	14.49	14.62	
20	QPSK	50	0	13.57	13.80	13.58	14.5
20	QPSK	50	24	13.61	13.72	13.66	
20	QPSK	50	50	13.66	13.59	13.55	
20	QPSK	100	0	13.58	13.72	13.56	14.5
20	16QAM	1	0	13.82	14.12	13.85	
20	16QAM	1	49	14.07	14.14	13.92	
20	16QAM	1	99	14.02	14.12	13.84	13.5
20	16QAM	50	0	12.85	12.92	12.74	
20	16QAM	50	24	12.89	12.84	12.78	
20	16QAM	50	50	12.82	12.82	12.78	13.5
20	16QAM	100	0	12.85	12.74	12.86	
20	64QAM	1	0	12.93	12.96	12.97	
20	64QAM	1	49	13.01	13.05	13.04	13.5
20	64QAM	1	99	12.97	13.02	13.05	
20	64QAM	50	0	12.40	11.92	12.32	
20	64QAM	50	24	12.28	12.04	12.15	13
20	64QAM	50	50	12.40	12.29	12.16	
20	64QAM	100	0	12.45	11.97	11.96	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.59	14.63	14.62	15.5
15	QPSK	1	37	14.45	14.40	14.53	
15	QPSK	1	74	14.52	14.44	14.57	
15	QPSK	36	0	13.52	13.75	13.53	14.5
15	QPSK	36	20	13.56	13.67	13.61	
15	QPSK	36	39	13.61	13.54	13.50	
15	QPSK	75	0	13.53	13.67	13.51	14.5
15	16QAM	1	0	13.77	14.07	13.80	
15	16QAM	1	37	14.02	14.09	13.87	
15	16QAM	1	74	13.97	14.07	13.79	13.5
15	16QAM	36	0	12.80	12.87	12.69	
15	16QAM	36	20	12.84	12.79	12.73	
15	16QAM	36	39	12.77	12.77	12.73	13.5
15	16QAM	75	0	12.80	12.69	12.81	
15	64QAM	1	0	12.88	12.91	12.92	
15	64QAM	1	37	12.96	13.00	12.99	13.5
15	64QAM	1	74	12.92	12.97	13.00	
15	64QAM	36	0	12.35	11.87	12.27	
15	64QAM	36	20	12.23	11.99	12.10	13
15	64QAM	36	39	12.35	12.24	12.11	
15	64QAM	75	0	12.40	11.92	11.91	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.56	14.60	14.59	15.5
10	QPSK	1	25	14.42	14.37	14.50	
10	QPSK	1	49	14.49	14.41	14.54	
10	QPSK	25	0	13.49	13.72	13.50	14.5
10	QPSK	25	12	13.53	13.64	13.58	
10	QPSK	25	25	13.58	13.51	13.47	
10	QPSK	50	0	13.50	13.64	13.48	14.5
10	16QAM	1	0	13.74	14.04	13.77	
10	16QAM	1	25	13.99	14.06	13.84	
10	16QAM	1	49	13.94	14.04	13.76	13.5
10	16QAM	25	0	12.77	12.84	12.66	
10	16QAM	25	12	12.81	12.76	12.70	
10	16QAM	25	25	12.74	12.74	12.70	13.5
10	16QAM	50	0	12.77	12.66	12.78	
10	64QAM	1	0	12.85	12.88	12.89	
10	64QAM	1	25	12.93	12.97	12.96	13.5
10	64QAM	1	49	12.89	12.94	12.97	
10	64QAM	25	0	12.32	11.84	12.24	
10	64QAM	25	12	12.20	11.96	12.07	13
10	64QAM	25	25	12.32	12.21	12.08	
10	64QAM	50	0	12.37	11.89	11.88	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.53	14.57	14.56	15.5
5	QPSK	1	12	14.39	14.34	14.47	
5	QPSK	1	24	14.46	14.38	14.51	
5	QPSK	12	0	13.46	13.69	13.47	14.5
5	QPSK	12	7	13.50	13.61	13.55	
5	QPSK	12	13	13.55	13.48	13.44	
5	QPSK	25	0	13.47	13.61	13.45	14.5
5	16QAM	1	0	13.71	14.01	13.74	
5	16QAM	1	12	13.96	14.03	13.81	
5	16QAM	1	24	13.91	14.01	13.73	13.5
5	16QAM	12	0	12.74	12.81	12.63	
5	16QAM	12	7	12.78	12.73	12.67	
5	16QAM	12	13	12.71	12.71	12.67	13.5
5	16QAM	25	0	12.74	12.63	12.75	
5	64QAM	1	0	12.82	12.85	12.86	
5	64QAM	1	12	12.90	12.94	12.93	13.5
5	64QAM	1	24	12.86	12.91	12.94	
5	64QAM	12	0	12.29	11.81	12.21	
5	64QAM	12	7	12.17	11.93	12.04	13
5	64QAM	12	13	12.29	12.18	12.05	
5	64QAM	25	0	12.34	11.86	11.85	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.51	14.55	14.54	15.5
3	QPSK	1	8	14.37	14.32	14.45	
3	QPSK	1	14	14.44	14.36	14.49	
3	QPSK	8	0	13.44	13.67	13.45	14.5
3	QPSK	8	4	13.48	13.59	13.53	
3	QPSK	8	7	13.53	13.46	13.42	
3	QPSK	15	0	13.45	13.59	13.43	14.5
3	16QAM	1	0	13.69	13.99	13.72	
3	16QAM	1	8	13.94	14.01	13.79	
3	16QAM	1	14	13.89	13.99	13.71	13.5
3	16QAM	8	0	12.72	12.79	12.61	
3	16QAM	8	4	12.76	12.71	12.65	
3	16QAM	8	7	12.69	12.69	12.65	13.5
3	16QAM	15	0	12.72	12.61	12.73	

3	64QAM	1	0	12.80	12.83	12.84	13.5
3	64QAM	1	8	12.88	12.92	12.91	
3	64QAM	1	14	12.84	12.89	12.92	
3	64QAM	8	0	12.27	11.79	12.19	13
3	64QAM	8	4	12.15	11.91	12.02	
3	64QAM	8	7	12.27	12.16	12.03	
3	64QAM	15	0	12.32	11.84	11.83	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.49	14.53	14.52	15.5
1.4	QPSK	1	3	14.35	14.30	14.43	
1.4	QPSK	1	5	14.42	14.34	14.47	
1.4	QPSK	3	0	13.42	13.65	13.43	
1.4	QPSK	3	1	13.46	13.57	13.51	
1.4	QPSK	3	3	13.51	13.44	13.40	
1.4	QPSK	6	0	13.43	13.57	13.41	14.5
1.4	16QAM	1	0	13.67	13.97	13.70	14.5
1.4	16QAM	1	3	13.92	13.99	13.77	
1.4	16QAM	1	5	13.87	13.97	13.69	
1.4	16QAM	3	0	12.70	12.77	12.59	
1.4	16QAM	3	1	12.74	12.69	12.63	
1.4	16QAM	3	3	12.67	12.67	12.63	
1.4	16QAM	6	0	12.70	12.59	12.71	13.5
1.4	64QAM	1	0	12.78	12.81	12.82	13.5
1.4	64QAM	1	3	12.86	12.90	12.89	
1.4	64QAM	1	5	12.82	12.87	12.90	
1.4	64QAM	3	0	12.25	11.77	12.17	
1.4	64QAM	3	1	12.13	11.89	12.00	
1.4	64QAM	3	3	12.25	12.14	12.01	
1.4	64QAM	6	0	12.30	11.82	11.81	13