



REPORT No. : SZ21070266S01

## Annex E Conducted Power

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	32.58	32.61	32.54	33.00	23.58	23.61	23.54	24.00	0.09
GPRS 1 Tx slot	32.58	32.62	32.53	33.00	23.58	23.62	23.53	24.00	
GPRS 2 Tx slots	31.52	31.55	31.46	32.00	25.52	25.55	25.46	26.00	0.09
GPRS 3 Tx slots	29.36	29.45	29.38	30.00	25.10	25.19	25.12	25.74	0.09
GPRS 4 Tx slots	28.27	28.28	28.23	29.00	25.27	25.28	25.23	26.00	0.05
EDGE 1 Tx slot	26.13	26.24	26.15	27.00	17.13	17.24	17.15	18.00	0.11
EDGE 2 Tx slots	24.53	24.61	24.51	25.00	18.53	18.61	18.51	19.00	0.10
EDGE 3 Tx slots	21.62	21.82	21.66	22.50	17.36	17.56	17.40	18.24	0.20
EDGE 4 Tx slots	20.34	20.37	20.26	21.00	17.34	17.37	17.26	18.00	0.11

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	30.14	30.18	30.13	31.00	21.14	21.18	21.13	22.00	0.06
GPRS 1 Tx slot	30.15	30.19	30.15	31.00	21.15	21.19	21.15	22.00	
GPRS 2 Tx slots	29.22	29.24	29.21	30.00	23.22	23.24	23.21	24.00	0.03
GPRS 3 Tx slots	27.20	27.25	27.15	28.00	22.94	22.99	22.89	23.74	0.10
GPRS 4 Tx slots	25.62	25.55	25.46	26.00	22.62	22.55	22.46	23.00	0.16
EDGE 1 Tx slot	26.21	26.31	26.22	27.00	17.21	17.31	17.22	18.00	0.10
EDGE 2 Tx slots	25.22	25.12	25.24	26.00	19.22	19.12	19.24	20.00	0.12
EDGE 3 Tx slots	22.46	22.46	22.35	23.00	18.20	18.20	18.09	18.74	0.11
EDGE 4 Tx slots	21.62	21.65	21.42	22.00	18.62	18.65	18.42	19.00	0.23

Band TX Channel	WCDMA Bnad II			Tune-up Limit (dBm)	WCDMA Bnad IV			Tune-up Limit (dBm)	WCDMA Bnad 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	23.62	23.64	23.61	24.00	23.41	23.46	23.37	24.00	23.38	23.43	23.36	24.00
3GPP Rel 6 HSDPA Subtest-1	22.34	22.40	22.34	23.00	22.12	22.04	22.07	22.50	22.19	22.15	22.25	23.00
3GPP Rel 6 HSDPA Subtest-2	22.29	22.38	22.37	23.00	22.05	22.07	22.02	22.50	22.16	22.10	22.27	23.00
3GPP Rel 6 HSDPA Subtest-3	21.78	21.84	21.87	22.50	21.57	21.52	21.54	22.00	21.65	21.74	21.84	22.50
3GPP Rel 6 HSDPA Subtest-4	21.76	21.85	21.87	22.50	21.55	21.52	21.48	22.00	21.70	21.73	21.83	22.50
3GPP Rel 6 HSUPA Subtest-1	21.80	21.89	21.85	23.00	21.55	21.56	21.53	22.00	21.71	21.71	21.76	22.50
3GPP Rel 6 HSUPA Subtest-2	22.32	22.39	22.31	23.00	22.06	21.99	22.01	22.50	22.17	22.12	22.21	22.50
3GPP Rel 6 HSUPA Subtest-3	21.30	21.37	21.35	22.00	21.10	21.03	21.07	22.00	21.16	21.18	21.30	22.00
3GPP Rel 6 HSUPA Subtest-4	22.28	22.42	22.36	23.00	22.09	22.04	22.03	22.50	22.19	22.09	22.32	22.50
3GPP Rel 6 HSUPA Subtest-5	21.31	21.33	21.32	22.00	21.02	21.00	21.00	22.00	21.17	21.15	21.24	22.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-	21.29	21.35	21.33	22.00	21.16	21.02	20.99	22.00	21.17	21.20	21.28	22.00

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	23.31	23.34	23.28	24			
20	QPSK	1	49	23.29	23.23	23.16				
20	QPSK	1	99	23.23	23.19	23.17				
20	QPSK	50	0	22.39	22.48	22.41				
20	QPSK	50	24	22.40	22.45	22.45	23			
20	QPSK	50	50	22.45	22.41	22.47				
20	QPSK	100	0	22.38	22.47	22.43				
20	16QAM	1	0	22.44	22.44	22.46				
20	16QAM	1	49	22.28	22.58	22.54	23			
20	16QAM	1	99	22.53	22.38	22.78				
20	16QAM	50	0	22.46	22.43	22.41				
20	16QAM	50	24	22.42	22.47	22.48				
20	16QAM	50	50	22.50	22.47	22.54	23			
20	16QAM	100	0	22.53	22.54	22.41				
Channel				18675	18900	19125			Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	0	23.12	23.15	23.06	24			
15	QPSK	1	37	22.91	23.27	23.15				
15	QPSK	1	74	23.28	23.20	23.28				
15	QPSK	36	0	22.25	22.34	22.33				
15	QPSK	36	20	22.24	22.43	22.40	23			
15	QPSK	36	39	22.36	22.37	22.34				
15	QPSK	75	0	22.28	22.34	22.30				
15	16QAM	1	0	22.37	22.45	22.39				
15	16QAM	1	37	22.50	22.53	22.39	23			
15	16QAM	1	74	22.45	22.57	22.57				
15	16QAM	36	0	22.24	22.29	22.32				
15	16QAM	36	20	22.33	22.26	22.39				
15	16QAM	36	39	22.38	22.47	22.44	23			
15	16QAM	75	0	22.25	22.27	22.36				
Channel				18650	18900	19150			Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	23.09	23.08	23.18	24			
10	QPSK	1	25	23.20	23.30	23.18				
10	QPSK	1	49	23.09	23.17	23.09				
10	QPSK	25	0	22.36	22.37	22.33				
10	QPSK	25	12	22.32	22.44	22.37	23			
10	QPSK	25	25	22.23	22.36	22.32				
10	QPSK	50	0	22.29	22.38	22.36				
10	16QAM	1	0	22.77	22.70	22.69				
10	16QAM	1	25	22.46	22.42	22.49	23			
10	16QAM	1	49	22.41	22.49	22.28				
10	16QAM	25	0	22.31	22.30	22.27				
10	16QAM	25	12	22.47	22.27	22.27				
10	16QAM	25	25	22.27	22.47	22.57	23			
10	16QAM	50	0	22.84	22.77	22.81				
Channel				18625	18900	19175			Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	23.23	23.28	23.22	24			
5	QPSK	1	12	23.22	23.17	23.20				
5	QPSK	1	24	23.18	23.26	23.27				
5	QPSK	12	0	22.35	22.26	22.33				
5	QPSK	12	7	22.36	22.41	22.33	23			
5	QPSK	12	13	22.35	22.34	22.37				
5	QPSK	25	0	22.34	22.32	22.34				
5	16QAM	1	0	22.47	22.37	22.75				
5	16QAM	1	12	22.45	22.38	22.75	23			
5	16QAM	1	24	22.48	22.35	22.74				
5	16QAM	12	0	22.57	22.71	22.57				
5	16QAM	12	7	22.47	22.47	22.27				
5	16QAM	12	13	22.27	22.60	22.37	23			
5	16QAM	25	0	22.37	22.83	22.81				
Channel				18615	18900	19185			Tune-up limit (dBm)	
Frequency (MHz)				1851.5	1880	1908.5				
3	QPSK	1	0	23.17	23.24	23.16	24			
3	QPSK	1	8	23.27	23.30	23.13				
3	QPSK	1	14	23.28	23.15	23.15				
3	QPSK	8	0	22.23	22.18	22.20				
3	QPSK	8	4	22.29	22.23	22.24	23			
3	QPSK	8	7	22.29	22.23	22.19				
3	QPSK	15	0	22.21	22.29	22.22				
3	16QAM	1	0	22.37	22.28	22.22				
3	16QAM	1	8	22.41	22.35	22.31	23			
3	16QAM	1	14	22.34	22.31	22.19				
3	16QAM	8	0	22.77	22.90	22.82				
3	16QAM	8	4	22.84	22.81	22.87				
3	16QAM	8	7	22.74	22.79	22.82	23			
3	16QAM	15	0	22.77	22.81	22.76				
Channel				18607	18900	19193			Tune-up limit (dBm)	
Frequency (MHz)				1850.7	1880	1909.3				
1.4	QPSK	1	0	23.23	23.26	23.21	24			
1.4	QPSK	1	3	23.13	23.11	23.10				
1.4	QPSK	1	5	23.10	23.08	23.06				
1.4	QPSK	3	0	23.10	23.10	23.06				
1.4	QPSK	3	1	23.14	23.11	23.09	23			
1.4	QPSK	3	3	23.16	23.20	23.09				
1.4	QPSK	6	0	22.19	22.17	22.16				
1.4	16QAM	1	0	22.22	22.22	22.16				
1.4	16QAM	1	3	22.18	22.38	22.36	23			
1.4	16QAM	1	5	22.06	22.26	21.94				
1.4	16QAM	3	0	22.08	22.13	22.10				
1.4	16QAM	3	1	22.26	22.08	22.13				
1.4	16QAM	3	3	22.28	22.25	21.99	23			
1.4	16QAM	6	0	22.29	22.22	22.17				

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	23.29	23.37	23.36	24			
20	QPSK	1	49	23.15	23.23	23.22				
20	QPSK	1	99	23.07	23.20	23.32				
20	QPSK	50	0	22.36	22.49	22.46				
20	QPSK	50	24	22.36	22.44	22.44	23			
20	QPSK	50	50	22.25	22.36	22.37				
20	QPSK	100	0	22.35	22.39	22.46				
20	16QAM	1	0	22.22	22.52	22.39				
20	16QAM	1	49	22.37	22.14	22.28	23			
20	16QAM	1	99	22.16	22.38	22.22				
20	16QAM	50	0	22.35	22.28	22.42				
20	16QAM	50	24	22.61	22.72	22.61				
20	16QAM	50	50	22.57	22.58	22.58	23			
20	16QAM	100	0	22.59	22.67	22.68				
Channel				20025	20175	20325			Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	23.16	23.20	23.30	24			
15	QPSK	1	37	23.20	23.29	23.21				
15	QPSK	1	74	23.07	23.29	23.32				
15	QPSK	36	0	22.30	22.37	22.40				
15	QPSK	36	20	22.34	22.47	22.43	23			
15	QPSK	36	39	22.39	22.38	22.47				
15	QPSK	75	0	22.34	22.36	22.37				
15	16QAM	1	0	22.28	22.50	22.22				
15	16QAM	1	37	22.36	22.36	22.20	23			
15	16QAM	1	74	22.22	22.52	22.31				
15	16QAM	36	0	22.23	22.25	22.44				
15	16QAM	36	20	22.18	22.25	22.31				
15	16QAM	36	39	22.14	22.23	22.29	23			
15	16QAM	75	0	22.25	22.26	22.35				
Channel				20000	20175	20350			Tune-up limit (dBm)	
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	23.08	23.27	23.10	24			
10	QPSK	1	25	23.06	23.19	23.20				
10	QPSK	1	49	23.14	22.97	23.20				
10	QPSK	25	0	22.13	22.35	22.37				
10	QPSK	25	12	22.25	22.31	22.35	23			
10	QPSK	25	25	22.14	22.25	22.32				
10	QPSK	50	0	22.20	22.30	22.22				
10	16QAM	1	0	22.19	22.34	22.10				
10	16QAM	1	25	22.46	22.20	22.52	23			
10	16QAM	1	49	22.53	22.43	22.42				
10	16QAM	25	0	22.19	22.18	22.17				
10	16QAM	25	12	22.11	22.21	22.18				
10	16QAM	25	25	22.45	22.36	22.45	23			
10	16QAM	50	0	22.39	22.43	22.55				
Channel				19975	20175	20375			Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	22.98	23.20	23.25	24			
5	QPSK	1	12	23.04	23.19	23.16				
5	QPSK	1	24	22.99	23.11	23.10				
5	QPSK	12	0	22.21	22.21	22.25				
5	QPSK	12	7	22.21	22.32	22.29	23			
5	QPSK	12	13	22.16	22.33	22.25				
5	QPSK	25	0	22.19	22.23	22.29				
5	16QAM	1	0	22.09	22.50	22.18				
5	16QAM	1	12	22.20	22.55	22.14	23			
5	16QAM	1	24	22.14	22.49	22.09				
5	16QAM	12	0	22.13	22.07	22.10				
5	16QAM	12	7	22.16	22.20	22.18				
5	16QAM	12	13	22.43	22.50	22.54	23			
5	16QAM	25	0							

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	23.13	23.14	23.06	24
10	QPSK	1	25	22.99	23.02	22.82	
10	QPSK	1	49	22.91	23.03	22.71	
10	QPSK	25	0	22.44	22.46	22.27	23
10	QPSK	25	12	22.20	22.22	22.27	
10	QPSK	25	25	22.20	22.31	22.36	
10	QPSK	50	0	22.26	22.14	22.28	23
10	16QAM	1	0	22.30	22.49	22.20	
10	16QAM	1	25	22.53	22.56	22.24	
10	16QAM	1	49	22.36	22.42	22.49	23
10	16QAM	25	0	22.45	22.46	22.28	
10	16QAM	25	12	22.39	22.47	22.25	
10	16QAM	25	25	22.42	22.35	22.38	23
10	16QAM	25	0	22.43	22.34	22.24	
10	16QAM	50	0	22.43	22.34	22.24	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.08	23.04	23.02	24
5	QPSK	1	12	22.98	23.09	22.93	
5	QPSK	1	24	22.98	22.93	22.93	
5	QPSK	12	0	22.35	22.40	22.26	23
5	QPSK	12	7	22.42	22.43	22.35	
5	QPSK	12	13	22.47	22.31	22.26	
5	QPSK	25	0	22.38	22.34	22.26	23
5	16QAM	1	0	22.67	22.60	22.36	
5	16QAM	1	12	22.37	22.59	22.35	
5	16QAM	1	24	22.24	22.59	22.42	23
5	16QAM	12	0	22.33	22.42	22.41	
5	16QAM	12	7	22.40	22.43	22.25	
5	16QAM	12	13	22.40	22.31	22.36	23
5	16QAM	25	0	22.41	22.46	22.41	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.77	23.08	22.93	24
3	QPSK	1	8	23.03	23.04	22.95	
3	QPSK	1	14	23.04	23.02	22.76	
3	QPSK	8	0	22.28	22.41	22.39	23
3	QPSK	8	4	22.42	22.48	22.45	
3	QPSK	8	7	22.37	22.39	22.26	
3	QPSK	15	0	22.35	22.41	22.40	23
3	16QAM	1	0	22.37	22.48	22.55	
3	16QAM	1	8	22.30	22.56	22.40	
3	16QAM	1	14	22.35	22.61	22.36	23
3	16QAM	8	0	22.31	22.40	22.14	
3	16QAM	8	4	22.47	22.58	22.15	
3	16QAM	8	7	22.39	22.45	22.19	23
3	16QAM	15	0	22.33	22.35	21.90	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.98	23.05	23.09	24
1.4	QPSK	1	3	23.11	23.04	23.11	
1.4	QPSK	1	5	23.00	22.94	22.95	
1.4	QPSK	3	0	23.01	23.07	23.03	23
1.4	QPSK	3	1	23.07	22.94	23.04	
1.4	QPSK	3	3	23.08	23.00	23.00	
1.4	QPSK	6	0	22.33	22.32	22.31	23
1.4	16QAM	1	0	22.46	22.27	22.44	
1.4	16QAM	1	3	22.26	22.50	22.39	
1.4	16QAM	1	5	22.65	22.33	22.39	23
1.4	16QAM	3	0	22.18	22.16	22.30	
1.4	16QAM	3	1	22.21	22.48	22.34	
1.4	16QAM	3	3	22.29	22.40	22.28	23
1.4	16QAM	6	0	22.48	22.35	22.39	

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	23.67	23.68	23.60	24
20	QPSK	1	49	23.62	23.66	23.55	
20	QPSK	1	99	23.57	23.52	23.57	
20	QPSK	50	0	22.53	22.60	22.57	23
20	QPSK	50	24	22.29	22.26	22.16	
20	QPSK	50	50	22.39	22.42	22.39	
20	QPSK	100	0	22.34	22.36	22.33	23
20	16QAM	1	0	22.15	22.25	22.43	
20	16QAM	1	49	22.30	22.16	22.44	
20	16QAM	1	99	22.24	22.55	22.20	23
20	16QAM	50	0	22.09	22.19	22.12	
20	16QAM	50	24	22.14	22.06	22.17	
20	16QAM	50	50	22.22	22.27	22.10	23
20	16QAM	100	0	22.10	22.22	22.20	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.50	23.59	23.59	24
15	QPSK	1	37	23.60	23.57	23.61	
15	QPSK	1	74	23.54	23.61	23.61	
15	QPSK	36	0	22.32	22.41	22.43	23
15	QPSK	36	20	22.40	22.47	22.42	
15	QPSK	36	39	22.43	22.46	22.50	
15	QPSK	75	0	22.49	22.42	22.44	23
15	16QAM	1	0	22.65	22.76	22.83	
15	16QAM	1	37	22.47	22.58	22.56	
15	16QAM	1	74	22.51	22.51	22.73	23
15	16QAM	36	0	22.10	22.21	22.23	
15	16QAM	36	20	22.17	22.20	22.19	
15	16QAM	36	39	22.23	22.21	22.10	23
15	16QAM	75	0	22.18	22.26	22.18	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.49	23.36	23.39	24
10	QPSK	1	25	23.52	23.42	23.44	
10	QPSK	1	49	23.45	23.42	23.44	
10	QPSK	25	0	22.24	22.24	22.23	23
10	QPSK	25	12	22.20	22.32	22.37	
10	QPSK	25	25	22.13	22.31	22.31	
10	QPSK	50	0	22.22	22.34	22.33	23
10	16QAM	1	0	22.27	22.45	22.30	
10	16QAM	1	25	22.26	22.28	22.33	
10	16QAM	1	49	22.73	22.63	22.54	23
10	16QAM	25	0	22.16	22.04	22.12	
10	16QAM	25	12	21.98	22.15	22.08	
10	16QAM	25	25	22.03	22.06	21.98	23
10	16QAM	50	0	22.06	22.15	22.00	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.53	23.44	23.34	24
5	QPSK	1	12	23.40	23.33	23.41	
5	QPSK	1	24	23.34	23.40	23.44	
5	QPSK	12	0	22.04	22.12	22.04	23
5	QPSK	12	7	22.11	22.26	22.18	
5	QPSK	12	13	22.13	22.29	22.14	
5	QPSK	25	0	22.14	22.15	22.10	23
5	16QAM	1	0	22.12	22.10	22.16	
5	16QAM	1	12	22.17	22.39	22.29	
5	16QAM	1	24	22.23	22.42	22.24	23
5	16QAM	12	0	22.14	22.20	22.11	
5	16QAM	12	7	22.03	22.05	22.01	
5	16QAM	12	13	22.03	22.09	22.22	23
5	16QAM	25	0	22.00	22.05	22.07	

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	23.10	23.26	23.15	24	
10	QPSK	1	25	22.96	23.09	23.12		
10	QPSK	1	49	23.06	23.07	23.06		
10	QPSK	25	0	22.35	22.45	22.36		
10	QPSK	25	12	22.32	22.26	22.05	23	
10	QPSK	25	25	22.37	22.43	22.36		
10	QPSK	50	0	22.38	22.40	22.31		
10	16QAM	1	0	22.31	21.86	21.99		
10	16QAM	1	25	22.06	22.01	22.15	23	
10	16QAM	1	49	22.15	22.20	22.09		
10	16QAM	25	0	22.04	22.06	22.00		
10	16QAM	25	12	22.08	22.12	22.01		
10	16QAM	25	25	22.13	22.14	22.08	23	
10	16QAM	50	0	22.03	22.11	22.16		
Channel				23035	23095	23155		Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.85	23.18	22.96	24	
5	QPSK	1	12	23.01	23.17	23.01		
5	QPSK	1	24	22.97	23.16	23.02		
5	QPSK	12	0	22.08	22.15	22.14		
5	QPSK	12	7	22.19	22.21	22.18	23	
5	QPSK	12	13	22.14	22.17	22.14		
5	QPSK	25	0	22.10	22.22	22.18		
5	16QAM	1	0	22.11	22.13	22.15		
5	16QAM	1	12	22.28	22.23	22.24	23	
5	16QAM	1	24	22.24	22.22	22.18		
5	16QAM	12	0	21.98	21.95	21.98		
5	16QAM	12	7	22.12	22.17	22.01		
5	16QAM	12	13	22.07	22.04	22.09	23	
5	16QAM	25	0	22.08	22.04	22.06		
Channel				23025	23095	23155		Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.93	23.20	22.87	24	
3	QPSK	1	8	23.11	23.10	23.00		
3	QPSK	1	14	23.05	23.16	23.11		
3	QPSK	8	0	22.16	22.14	22.14		
3	QPSK	8	4	22.19	22.22	22.23	23	
3	QPSK	8	7	22.14	22.22	22.16		
3	QPSK	15	0	22.13	22.21	22.07		
3	16QAM	1	0	22.14	22.50	22.09		
3	16QAM	1	8	22.34	22.32	22.27	23	
3	16QAM	1	14	22.17	22.22	22.08		
3	16QAM	8	0	22.14	22.03	22.06		
3	16QAM	8	4	22.19	22.16	22.27		
3	16QAM	8	7	22.03	22.06	22.12	23	
3	16QAM	15	0	22.01	21.94	21.93		
Channel				23017	23095	23173		Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.96	23.13	22.93	24	
1.4	QPSK	1	3	23.07	23.06	23.08		
1.4	QPSK	1	5	22.96	23.01	22.97		
1.4	QPSK	3	0	22.91	23.04	23.02		
1.4	QPSK	3	1	23.12	23.12	22.79	23	
1.4	QPSK	3	3	23.07	23.09	23.05		
1.4	QPSK	6	0	22.13	22.10	22.08		
1.4	16QAM	1	0	22.17	22.11	21.96		
1.4	16QAM	1	3	21.98	22.41	22.08	23	
1.4	16QAM	1	5	22.10	22.11	22.10		
1.4	16QAM	3	0	21.94	21.97	21.98		
1.4	16QAM	3	1	22.10	22.18	22.02		
1.4	16QAM	3	3	21.93	22.07	22.07		
1.4	16QAM	6	0	21.86	22.06	21.96		

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	23.15			24	
10	QPSK	1	25	23.07				
10	QPSK	1	49	23.12				
10	QPSK	25	0	22.24				
10	QPSK	25	12	22.05			23	
10	QPSK	25	25	21.99				
10	QPSK	50	0	22.02				
10	16QAM	1	0	22.14				
10	16QAM	1	25	22.06			23	
10	16QAM	1	49	22.36				
10	16QAM	25	0	22.17				
10	16QAM	25	12	22.12				
10	16QAM	25	25	22.25			23	
10	16QAM	50	0	22.02				
Channel				23205	23230	23255		Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	23.04	23.07	23.05	24	
5	QPSK	1	12	23.04	23.06	23.02		
5	QPSK	1	24	23.03	23.01	22.94		
5	QPSK	12	0	21.95	22.03	22.12		
5	QPSK	12	7	22.02	22.01	22.10	23	
5	QPSK	12	13	21.94	22.10	22.08		
5	QPSK	25	0	22.01	21.98	22.08		
5	16QAM	1	0	22.08	22.44	22.23		
5	16QAM	1	12	22.14	22.29	22.17	23	
5	16QAM	1	24	22.24	22.06	22.07		
5	16QAM	12	0	22.67	22.64	22.57		
5	16QAM	12	7	22.68	22.57	22.69		
5	16QAM	12	13	22.65	22.64	22.68	23	
5	16QAM	25	0	22.02	22.06	22.08		

## 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	23.15	23.18	23.15	24
10	QPSK	1	25	23.03	22.99	23.05	
10	QPSK	1	49	22.96	22.99	22.94	
10	QPSK	25	0	22.26	22.32	22.24	23
10	QPSK	25	12	22.11	22.05	22.19	
10	QPSK	25	25	22.09	22.09	22.18	
10	QPSK	50	0	22.22	22.09	22.10	
10	16QAM	1	0	21.95	22.14	22.28	
10	16QAM	1	25	22.16	22.45	22.29	23
10	16QAM	1	49	22.12	22.37	22.42	
10	16QAM	25	0	22.06	22.30	22.29	
10	16QAM	25	12	22.12	22.27	22.25	23
10	16QAM	25	25	21.95	22.21	22.26	
10	16QAM	50	0	21.99	22.28	22.25	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.06	23.02	22.98	24
5	QPSK	1	12	23.05	23.01	23.00	
5	QPSK	1	24	22.97	23.03	23.02	
5	QPSK	12	0	22.13	22.31	22.47	23
5	QPSK	12	7	22.25	22.34	22.42	
5	QPSK	12	13	22.08	22.36	22.42	
5	QPSK	25	0	22.11	22.28	22.41	
5	16QAM	1	0	22.59	22.64	22.36	
5	16QAM	1	12	22.76	22.32	22.69	23
5	16QAM	1	24	22.60	22.65	22.81	
5	16QAM	12	0	22.04	22.07	22.28	
5	16QAM	12	7	22.04	22.11	22.23	23
5	16QAM	12	13	21.95	22.20	22.23	
5	16QAM	25	0	22.05	22.17	22.21	

# 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	23.35	23.37	23.30	
20	QPSK	1	49	23.30	23.30	23.31	24
20	QPSK	1	99	23.31	23.26	23.36	
20	QPSK	50	0	22.46	22.47	22.45	
20	QPSK	50	24	22.31	22.24	22.21	23
20	QPSK	50	50	22.45	22.25	22.24	
20	QPSK	100	0	22.24	22.31	22.25	
20	16QAM	1	0	22.41	22.24	22.31	23
20	16QAM	1	49	22.29	22.24	22.19	
20	16QAM	1	99	22.21	22.31	22.29	
20	16QAM	50	0	22.31	22.24	22.54	23
20	16QAM	50	24	22.52	22.21	22.31	
20	16QAM	50	50	22.58	22.67	22.28	
20	16QAM	100	0	22.51	22.66	22.35	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.07	23.27	23.14	24
15	QPSK	1	37	23.25	23.31	23.14	
15	QPSK	1	74	23.23	23.24	23.07	
15	QPSK	36	0	22.41	22.26	22.46	23
15	QPSK	36	20	22.46	22.22	22.42	
15	QPSK	36	39	22.49	22.21	22.45	
15	QPSK	75	0	22.51	22.24	22.48	
15	16QAM	1	0	22.32	22.61	22.26	23
15	16QAM	1	37	22.49	22.18	22.32	
15	16QAM	1	74	22.41	21.75	22.16	
15	16QAM	36	0	22.48	22.15	22.35	23
15	16QAM	36	20	22.42	22.11	22.31	
15	16QAM	36	39	22.55	22.65	22.35	
15	16QAM	75	0	22.56	22.13	22.35	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.16	23.24	23.12	24
10	QPSK	1	25	23.21	23.11	23.07	
10	QPSK	1	49	23.08	23.31	23.31	
10	QPSK	25	0	22.46	22.34	22.30	23
10	QPSK	25	12	22.45	22.23	22.30	
10	QPSK	25	25	22.54	22.18	22.34	
10	QPSK	50	0	22.58	22.26	22.32	
10	16QAM	1	0	21.93	22.08	22.33	23
10	16QAM	1	25	22.02	22.23	22.16	
10	16QAM	1	49	21.98	22.15	22.29	
10	16QAM	25	0	22.01	22.29	22.47	23
10	16QAM	25	12	21.98	22.15	22.41	
10	16QAM	25	25	22.05	22.27	22.54	
10	16QAM	50	0	22.01	22.25	22.43	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.01	23.24	23.21	24
5	QPSK	1	12	23.16	23.11	23.24	

5	QPSK	1	24	23.07	23.21	22.94	
5	QPSK	12	0	22.39	22.43	22.52	23
5	QPSK	12	7	22.52	22.28	22.58	
5	QPSK	12	13	22.52	22.50	22.64	
5	QPSK	25	0	22.53	22.51	22.66	
5	16QAM	1	0	22.36	22.52	22.21	23
5	16QAM	1	12	22.53	22.69	22.37	
5	16QAM	1	24	22.39	22.50	22.22	
5	16QAM	12	0	21.94	22.16	22.34	23
5	16QAM	12	7	21.89	22.26	22.45	
5	16QAM	12	13	22.02	22.16	22.38	
5	16QAM	25	0	21.90	22.24	22.45	

## 2.4GHz WLAN

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	12.05	12.50	15.00	99.52
		CH 7	2442	12.98	13.50	15.00	
		CH 13	2472	12.16	13.00	15.00	
	802.11g 6Mbps	CH 1	2412	11.92	12.50	15.00	96.86
		CH 7	2442	12.51	13.00	15.00	
		CH 13	2472	11.83	12.50	15.00	
	802.11n- HT20 MCS0	CH 1	2412	11.76	12.50	15.00	96.27
		CH 7	2442	12.55	13.00	15.00	
		CH 13	2472	11.56	12.00	15.00	
802.11n- HT40 MCS0	CH 3	2422	11.85	12.50	15.00	96.65	
	CH 7	2442	12.46	13.00	15.00		
	CH 11	2462	11.84	12.50	15.00		

## Bluetooth

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.42	5.04	5.17
	CH 39	2441	8.49	4.93	4.86
	CH 78	2480	6.72	3.15	3.13
Tune-up Limit			9	5.5	5.5
Duty Cycle %			76.8	76.8	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-4.42
	CH 19	2440	-3.25
	CH 39	2480	-4.55
Tune-up Limit			-3
Duty Cycle %			60.58